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

Dominion

JAN 28 2002

Docket Nos. 50-245
50-336
50-423
B18565

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 Procedure

The purpose of this letter is to inform the U.S. Nuclear Regulatory Commission that the following Emergency Plan Procedure has been implemented:

MP-26-EPI-FAP01-005, "Radiological Monitoring Team (RMT) #1," Major Revision 0, Minor Revision 2, transmitted via Attachment 1.

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. Alan Price, Vice President
Nuclear Technical Services - Millstone

Attachment (1)

cc: See next page

A045

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

Docket Nos. 50-245
50-336
50-423
B18565

Attachment 1

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

Emergency Procedures Implementing (EPI) Functional Administrative Procedure (FAP)
MP-26-EPI-FAP01-005, "Radiological Monitoring Team (RMT) #1"
Major Revision 0, Minor Revision 2

08/22/01
Approval Date

08/23/01
Effective Date

Document Action Request

SPG # 011211-110453

A

Initiated By: Kathleen Burgess Date: 12/11/2001 Department EP Ext 2490

Document No: MP-26-EPI-FAP01-005 Rev. No: 000 Minor Rev No. 02

Title: **Radiological Monitoring Team #1**

B

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

AR 01006973-09

Continued ☒

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

C

☐ Intent Change (SQR Independent, RCD, ENV Screen Required (Other reviews may be required. See MP-05-DC-FAP 01.1 Att 3 ☐ Edit Corr ☑ Non-Intent Change (Only SQR Independent Review and Env. screen Required)

D

Editorial Correction Approval

/
Plant Mngt Staff Member - Approval / Date

TPC Interim Approval

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

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

E

Procedure Request/Feedback Disposition

Priority: ☑ Perform Now ☐ Perform Later - See Comments

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

☐ TPC ☐ OTC ☐ Place in Void

F

Reviews continued ☐	Print	Sign	Date	SQR Qualified Yes	SQR Qualified No	SQR Qualified Dept.	If Comments
☐				☐	☐		☐
☐				☐	☐		☐
50.54(q) ☑	Kathy Burgess	Kathy Burgess	12/17/01	☑	☐	EPSD	☐
RCD ☑	Kathy Burgess	Kathy Burgess	12/12/01	☑	☐	EPSD	☐
Env Screen ☑	Kathy Burgess	Kathy Burgess	12/12/01	☑	☐	EPSD	☐
Licensing Basis ☐				☐	☐		☐
Independent ☑	T. Rigney	Tom Rigney	12/19/01	☑	☐	EPSD	☑

G

An NRRL update was required ? ☐ Yes

H

1. ☑ **SQR Program Final Review and Appproval**

Approval ☑ Disapproval ☐

Tom Rigney 12-19-01
SQR Qualified Independent Reviewer / Date

Paul A. Blaisdell
Department Head/Responsible Individual

12/18/01
Approval Date

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

N/A
Department Head/Responsible Individual Sign

Meeting No. _____

SORC Approval Signature

Approval Date

I

Effective Date 12/28/01

12/18/01
Approval Date

12/28/01
Effective Date

Radiological Monitoring Team (RMT) #1

This form provides guidance to RMT #1 for emergency response actions during a declared emergency.

NOTE

Upon declaration of an emergency event, three on-shift Health Physics Technicians report to the affected unit control room to comprise RMT #1. RMT #1 provides health physics support to the following:

- Affected unit control room
- Search and rescue teams
- Emergency assessment and repair teams

The actual tasks performed by RMT #1 will vary depending upon the nature of the emergency event. Additional HP Technicians may also be called to assist with OSC deployed teams.

Additional equipment is available in each HP office and in the TSC/OSC.

Section A: Initial Actions

- ☐ 1. Notify CR-DSEO/MCRO of arrival and obtain briefing.
- ☐ 2. Obtain RMT #1 kit from the control room emergency equipment locker/area.
- ☐ 3. Refer To EPI-FAP15-002, "RMT Instrument, Battery, and Source Check Sheet," and perform the following:
  - Conduct checks of control room emergency radiological equipment.
  - Replace any inoperable equipment.
  - Record results on EPI-FAP15-002.
- ☐ 4. Accompany PEO or other control room personnel dispatched by the CR-DSEO/MCRO.

Section B: Actions for a Unit 1 Event

NOTE

1. A Unit 1 event will not exceed beta skin dose limits.
2. If an RO-2A is not available, an RO-20 may be used. The dose rate calculation is identical.

☐ 1. Using RO-2A, periodically monitor Units 2 and 3 control room air. ①

☐ 2. Log readings and calculate the dose rate using Section F, "Unit 1 Event - Whole Body Gamma and Krypton-85 Beta Dose Rate Calculations."

☐ 3. Notify CR-DSEO of dose rates.

Section C: Actions for a Unit 2 or 3 Event

☐ 1. IF radiation levels have increased in the following areas, Refer To and complete Section E, "Obtaining a Control Room Air Sample:"

- Affected unit control room
- Unaffected unit control room
- Other areas that may be specified by the CR-DSEO/MCRO

Section D: Recurring Actions

☐ 1. Evaluate need for issuing self-reading dosimetry to on-site personnel (i.e., all control rooms, CAS/SAS) and issue dosimetry, as necessary.

☐ 2. Provide Health Physics support for operations, search and rescue, and emergency assessment or repair teams, as follows:

- Refer To and complete an EPI-FAP15-010 form, and if additional information is needed on status of radiological conditions, contact the MRCA. ②
- Using the EPI-FAP15-010 form, brief the team.
- Ensure the MCRO has notified the ADTS of the pending team dispatch.
- Once dispatched, periodically communicate with the control room and/or OSC AA using a radio or telephone. ②
- Notify the MRCA upon return to the control room and provide a debrief as necessary. ②

☐ 3. Establish frisking station(s) and ensure all personnel entering the area conduct a whole body frisk, if necessary.

Section D: Recurring Actions

☐ 4. Request additional personnel to assist with monitoring, decontamination, or team accompanyment from the ARPS, as necessary.

☐ 5. Conduct habitability surveys of assigned facility including the following, as applicable:

- Radiation
- Contamination
- Airborne (11 minutes at 1.9 to 2.1 cfm unless directed otherwise)
- Continuous air monitor operability, if applicable

☐ 6. Periodically notify CR-DSEO/MCRO of the results of habitability surveys.

NOTE

Administrative requirements should not delay prompt action to protect health and safety.

☐ 7. Obtain and distribute the following items as needed:

- Emergency dosimetry.
- Respiratory equipment and protective clothing.
- Radios.

8. IF deployment from the control room is needed, perform the following:

CAUTION

Hand held radios are not to be operated in the control room.

☐ a. Conduct radio operability checks and replace inoperable radios.

☐ b. After dispatch from control room, establish periodic communications with the CR DSEO/MCRO or OSC AA, as applicable.

☐ c. If radio communications are not available, use telephone or other available systems for communications.

☐ d. Monitor radiological and plant conditions en-route to survey locations.

☐ e. When the survey location is reached, perform a radiological survey.

☐ f. Refer To EPI-FAP15-003, "Radiation Monitoring Point Data Sheet," and record survey results.

Section D: Recurring Actions

ALARA

The MRCA should be notified of RMT locations to keep the RMTs informed of changing plant and radiological conditions and allow rapid response to changes to the assignment.

- ☐ g. Notify CR-DSEO/MCRO and OSC AA of survey results.
- ☐ h. Upon return to the control room, brief the CR-DSEO/MCRO on radiological conditions and other activities.

☐ 9. Upon TSC activation, brief the MRCA on status of radiological conditions and activities performed or in progress.

10. When the MRCA assumes control, conduct radiological surveys as follows:

- ☐ a. Contact the ARPS for input to the briefing.
- ☐ b. Proceed to the survey location and conduct a radiological survey.
- ☐ c. Notify the OSC AA of the survey results.
- ☐ d. When directed, report to designated low background area to await further instructions.
- ☐ e. Request updates of conditions from the OSC AA every 15-30 minutes.

Section E: Obtaining a Control Room Air Sample

NOTE

An 11-minute sample is taken to ensure lower limits of detection are met. A 5-minute air sample is collected if a significant degradation in radiological conditions has occurred.

☐ 1. Using the following, collect a 5-minute air sample:

- Particulate filter
- Iodine sample cartridge (silver zeolite or equivalent)
- Air sampler
- Flow of 2.0 cfm (1.9-2.1 cfm)

Section E: Obtaining a Control Room Air Sample

☐ 2. Using the following, count the sample cartridge:

- E-140, HP-210, and DIG-5 or equivalent instrument combination
- Background less than 10,000 cpm
- 24 second count ("0.4" time setting)

☐ 3. Review Table 1 for recommended protective actions.

Table 1

Results of Five Minute Silver Zeolite Air Samples @ 2.0 cfm Using E-140, HP-210, DIG-5 and Associated Personnel Protective Actions for Control Room Personnel

Net Counts (24 sec count)	DEQ I-131 (μCi/cc)	Thyroid CDE (if inhaled for 1 hour)	Recommended Personnel Protective Action Decision for Control Room Personnel
≥ 5,000	≥ 7.7×10^{-6}	≥ 10 rem	1. Evacuate non-essential personnel 2. Don respiratory protection 3. Send cartridge for isotopic analysis within 1 hour
≥ 24,000	≥ 3.8×10^{-5}	≥ 50 rem	Above actions plus: If iodine concentrations are confirmed by isotopic analysis, issue KI per EPI-FAP09
> 95,000 or off-scale	> 1.5×10^{-4}	> 200 rem	Above actions plus: Evacuate all CR personnel, as necessary.

☐ 4. Report sample results and recommended protective actions to CR-DSEO.

☐ 5. Send iodine cartridge for isotopic analysis.

☐ 6. When isotopic analysis is received, revise recommended protective actions, as necessary.

Prepared by: _____ _____ _____

Signature Print Date

Section F: Unit 1 Event - Whole Body Gamma and Krypton-85 Beta Dose Rate Calculations

Time of Sample	Location (CR 2, 3)	RO-2A Readings[1] Closed Window[2]	RO-2A Readings[1] Open Window	Krypton-85 Beta Dose Rate (OW-CW) X2[3]	MCRO Notified	①

(1) RO-20 is an acceptable alternative instrument.

(2) Whole body gamma dose rate

(3) OW means open window reading; CW means closed window reading

RMT #1 Signature/Date: ____________________ / ____________________