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Millstone Power Station
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Dominion

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U.S. Nuclear Regulatory Commission
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DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNITS 1, 2 AND 3
REVISED EMERGENCY PLAN PROCEDURES

In accordance with 10 CFR 50, Appendix E, Dominion Nuclear Connecticut, Inc. hereby notifies the U.S. Nuclear Regulatory Commission that the following Emergency Plan procedures have been implemented:

- MP-26-EPI-FAP01-005, "Radiological Monitoring Team (RMT) #1," Major Revision 0, Minor Revision 3, transmitted via Attachment 1;
- MP-26-EPI-FAP04-011, "Manager of Resources (MOR)," Major Revision 1, Minor Revision 5, transmitted via Attachment 2.

If you have any questions or require additional information, please contact Mr. David W. Dodson at (860) 447-1791, extension 2346.

Very truly yours,

J. Alan Price
Site Vice President - Millstone

A045

Attachments: 2

Commitments made in this letter: None.

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Attachment 1

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

Millstone Power Station Units 1, 2 and 3
Dominion Nuclear Connecticut, Inc. (DNC)

11-24-03
Approval Date

12/18/03
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, two on-shift Health Physics Technicians (HP Tech) report to the affected unit control room to comprise RMT #1. One additional HP Tech will report to the affected unit control room within 30-60 minutes as RMT #1. RMT #1 provides health physics support to the following: (3)

- 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

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]		Krypton-85 Beta Dose Rate (OW-CW) X2[3]	MCRO Notified
		Closed Window[2]	Open Window		

(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: _____ / _____

Attachment 2

Emergency Procedures Implementing (EPI)
Functional Administrative Procedure (FAP)
MP-26-EPI-FAP04-011, "Manager of Resources (MOR)"

Millstone Power Station Units 1, 2 and 3
Dominion Nuclear Connecticut, Inc. (DNC)

11-24-03
Approval Date

12/18/03
Effective Date

Manager of Resources (MOR)

This form provides guidance to the MOR for emergency response actions during events that activate the SERO. (4)

Section A: Initial Actions

NOTE

MP-26-EPA-REF08B, "Millstone Emergency Plan Resource Book," contains the phone numbers for SERO personnel, Offsite governmental officials and emergency responders, and support resources points of contact.

- ☐ 1. Sign in on the EOF Staffing Board and log date and arrival time on the SERO Log Sheet.
- ☐ 2. Notify the ADEOF of arrival and obtain a status briefing.
- ☐ 3. Maintain a log of significant events and communications on the SERO Log Sheet.
- ☐ 4. Obtain the SERO call-back verification report from the fax in the MOC's office.
- ☐ 5. IF the Community Alert Network (CAN) printout is available, obtain it from the EOF fax and compare it with the SERO call-back verification report results. (5)
- ☐ 6. Perform Assembly Area activities in accordance with EPI-FAP08, "Evacuation and Assembly."
- ☐ 7. When all of the facilities are activated and fully staffed, Refer To Section B.3 and complete a SERO Facility Shift Staffing roster for on-shift and first relief shift personnel.
- ☐ 8. Determine need for essential resources.
- ☐ 9. Notify INPO that the SERO has been activated.

Section B: Recurring Actions

☐ 1. Coordinate obtaining extra personnel for any emergency facility that requires additional assistance as follows:

- Contact the necessary individuals.
- Refer To EPI-FAP15-011, "Fitness for Duty Questionnaire," and determine if notified personnel are fit for duty.
- IF notified personnel are determined fit for duty, request personnel to report to the EOF.
- WHEN personnel arrive, coordinate access for the responders into the Protected Area with Security as necessary.

☐ 2. Transfer additional support personnel to respective ERFs as follows:

- Consult the MRDA to determine safe access routes for transporting personnel to the station.
- Issue an Emergency Vehicle Pass to each vehicle transporting personnel from the EOF to the station.

☐ 3. Prepare shift relief schedules and rosters as follows:

a. Consult with the DSEO and SERO managers to determine shift personnel requirements.

b. Notify personnel of the following:

- Shift assignment
- Shift duration
- Reporting time
- Reporting location

c. Record shift assignments next to the SERO position on Section D and designate as shift 1, 2, or 3.

☐ 4. Notify the following of the emergency:

- Purchasing Department
- Nuclear Maintenance Department
- Nuclear Site Services Department
- Nuclear Procedures and Document Administration
- Transportation Department
- Richmond Corporate Operations Center

Section B: Recurring Actions

- ☐ 5. Request Information Technology provide support personnel to the EOF, as necessary.
- ☐ 6. Request photocopier services provide support personnel to the EOF, as necessary.
- ☐ 7. Contact the Nuclear Maintenance Department for the following resources:
  - Craft Labor
  - Tools
  - Equipment
- ☐ 8. Contact the Purchasing Department for the following resources:
  - Consulting Services
  - Expense Account Services
  - Temporary Housing
  - Food
- ☐ 9. Contact the Nuclear Site Services Department for the following resources:
  - Supplies
  - Vehicles
  - Heavy Machinery
- ☐ 10. Contact the Transportation Department for the following resources:
  - Vehicles
  - Equipment
  - Supplies
  - Personnel
- ☐ 11. Consult the DSEO to determine the need for outside agency assistance.
- ☐ 12. Obtain DSEO approval before requesting equipment or services over $100,000.
- ☐ 13. Contact the Richmond Corporate Operations Support for the following additional resources:
  - Additional transportation needs
  - Petty cash
  - Legal, insurance, and treasury services
  - Any other corporate resources, as necessary

Section B: Recurring Actions

☐ 14. Obtain additional support for services from INPO, as necessary.

☐ 15. Coordinate with the Regulatory Liaison to support the following, as necessary:

- NRC site team
- Supporting organizations

NOTE

The following events may require large amounts of bottled breathing air:

- Environmental or radiological release that threatens control room habitability
- Fire or chemical release
- Conditions projected to exhaust or restrict access to SCBA deployment on-site

☐ 16. IF event requires large amounts of bottled breathing air, perform the following:

a. Request Emergency Equipment and Services Personnel provide the following:

- Additional bottles
- Refills
- Additional SCBAs for relief teams.

CAUTION

Refills are usually provided from a cascade system of storage tanks replenished by a compressor. Running the compressor at a facility on or near the site during a radiological release may contaminate the air in the cascade system.

b. IF radiological event is in progress and the Fire Training cascade system requires filling by compressor, request off-site organizations refill bottles.

c. Coordinate bottle transport between points of use and refill facilities.

Section C: Termination

❑ 1. IF directed by the DSEO to terminate the SERO, perform the following:

- Notify departments, corporate, and agencies supporting the site with resources that the event has been terminated.
- Cancel any orders for resources no longer needed as a result of the termination.

Prepared by: _____ _____ _____

Signature Print Date

Section D: SERO Facility Shift Staffing

TSC/OSC Combined Facility ☐ Shift 1 ☐ Shift 2 ☐ Shift 3

Shift From: _____(hrs) To: _____ (hrs)

POSITION	NAME	PHONE	PAGER
Minimum Staffing - 60 Minute Response			
MRCA			
TSCRE			
UADTS			
UADTS			
UMOSC			
UMTSC			
UMTSC			
UTSCEE			
UTSCEE			
UTSCME			
UTSCME			
Full Staffing			
AMTL			
AMT TH			
MOS			
RAD COM			
UOSCMA			
UTSC SM			

② ③

Any route restrictions: ☐ No ☐ Yes

Section D: SERO Facility Shift Staffing

OSC Assembly Area ☐ Shift 1 ☐ Shift 2 ☐ Shift 3

Shift From: _____ (hrs) To: _____ (hrs)

POSITION	NAME	PHONE	PAGER
Minimum Staffing - 60 Minute Response			
ARPS			
GES			
RMT #2A			
RMT #2B			
RMT #2C			
RMT #2D			
UELEC			
UELEC			
UI&C Tech			
UI&C Tech			
UMECH			
UMECH			
UMOSC			
Full Staffing			
CBETS Operator			
UI&C OSC			
UI&C OSC			
UOSCMA			
UTSC SM			

②

Any route restrictions: ☐ No ☐ Yes

Section D: SERO Facility Shift Staffing

Unit 1 Event (Unit 2 Control Room) ❑ Shift 1 ❑ Shift 2 ❑ Shift 3

Shift From: _____ (hrs) To: _____ (hrs)

POSITION	NAME	PHONE	PAGER
SM/Certified Fuel Handler			
PEO (Unit 2 PEO/RO/SRO)			

Unit 2 or Unit 3 Control Room (Circle One) ❑ Shift 1 ❑ Shift 2 ❑ Shift 3

Shift From: _____ (hrs) To: _____ (hrs)

POSITION	NAME	PHONE	PAGER
SM/MCRO			
US			
STA			
CO			
CO			
PEO			
PEO			

Station Shift Support ❑ Shift 1 ❑ Shift 2 ❑ Shift 3

POSITION	NAME	NUMBER	PAGER
SDO			
Emergency Communicator			
RMT #1			
RMT #1			
RMT #1 (30-60 minute response)			
Chem Technician			
Chem Technician			
UCRDC			
UCRDC			

④

⑤

Any route restrictions: ❑ No ❑ Yes

Section D: SERO Facility Shift Staffing

EOF ☐ Shift 1 ☐ Shift 2 ☐ Shift 3

Shift From: _____ (hrs) To: _____ (hrs)

POSITION	NAME	PHONE	PAGER	
Minimum Staffing - 60 Minute Response				
ADEOF				
DSEO				
EOF HP				
EOF Emergency Communicator				④
MOR				
PITA				②
MRDA				
RMT #3				
RMT Driver				
RMT #4				
RMT Driver				
RMT #5				
RMT Driver				
UMOC				
UTIC				
Full Staffing				②
AMRDA				
AMRDA				
FTDC				
MET Assistant				
RAD COMM				
RAE				
Regulatory Liaison				
Station EP Representative				
State EP Representative				
UMOC				
UTIC				

Any route restrictions: ☐ No ☐ Yes

Section D: SERO Facility Shift Staffing

State EOC ❑ Shift 1 ❑ Shift 2 ❑ Shift 3

Shift From: _____ (hrs) To: _____ (hrs)

POSITION	NAME	PHONE	PAGER	
Minimum Staffing - 90 Minute Response				①
Chief Technical Spokesperson (CTS)				②
NNM				
Full Staffing				②
Media Liaison				
Rad Briefer				
Rumor and Inquiry Control				
Technical Briefer				
Technical Assistant				

Any route restrictions: ❑ No ❑ Yes

Section D: SERO Facility Shift Staffing

Simulator Foyer

POSITION	NAME	PHONE	PAGER