

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3542

ORIGINAL

OPERATION OF THE TECHNICAL SUPPORT CENTER (TSC)

USE CLASSIFICATION: **REFERENCE**

LPC No.	Effective Date	Affected Pages

Implementation Statement: N/A

Issue Date: 08/07/01

TABLE OF CONTENTS

PURPOSE	3
DISCUSSION	3
ATTACHMENTS	4
REFERENCES AND COMMITMENTS	5
PRECAUTIONS/LIMITATIONS	5
PROCEDURE	6
1.0 Immediate Actions	6
2.0 Subsequent Actions	11
FINAL CONDITIONS.....	13

PURPOSE

To outline the operation of the Technical Support Center.

DISCUSSION

There are four emergency classifications, Unusual Event, Alert, Site Area Emergency, and General Emergency. The decision to make an immediate initial declaration rests with the Shift Supervisor/Plant Emergency Director, who, in turn, instructs Control Room personnel to activate the notification system. Notification of State authorities must be initiated within 15 minutes after the event has been classified. The NRC must be notified immediately after the States' notification, but not later than one (1) hour after the event has been classified.

An Unusual Event is defined as any plant-related event which indicates a potential degradation of plant safety margins which is not likely to affect personnel on-site or the public off-site or result in radioactive releases requiring off-site monitoring. Unusual Event conditions will not have caused serious damage to the plant and may not require a change in operation status.

The basic shift complement is able to deal with Unusual Event conditions. On-duty personnel are assigned to functions as required. Additional members of the plant organization, including top management, are notified by Plant Security, and augment on-duty personnel as necessary. The Duty On Call Officer who is available on an on-call basis must report to the site and will assume the role of the TSC Coordinator. Dissemination of public information and closure or escalation to a more severe classification will occur as conditions warrant

An Alert event is defined as an indication of a substantial degradation of plant safety margins which could affect on-site personnel safety, could require off-site impact assessment, but is not likely to require off-site protective action.

An Alert event requires action beyond the normal capability of the basic shift complement. Plant response and off-site notification associated with this event classification ensure that sufficient emergency response personnel are mobilized to activate the Technical Support Center (TSC) and the Operations Support Center (OSC). The Emergency Operations Facility/Recovery Center (EOF/RC) is activated with the Site Recovery Manager (SRM), the EOF Coordinator and other EOF/RC staff members. Sufficient emergency assistance personnel to assess off-site radiological impact are assigned if the Alert event is producing releases off-site. Actual releases of radioactivity which substantially exceed Technical Specification limits may be involved and thus radiation monitoring and dose projection may be an integral portion of the emergency response required. Prompt notification is made to State authorities and follow-up information is provided as needed to off-site emergency organizations.

A Site Area Emergency indicates an event which involves likely or actual major failures of plant functions needed for the protection of the public. The possibility does exist for some releases of radioactive material and response to this event emphasizes the ability to monitor the releases and to provide action recommendations to State authorities and follow-up information as needed to off-site emergency organizations.

Plant resources are anticipated to be sufficient to cope with a Site Area Emergency. Outside resources, however, are mobilized and selected members are dispatched to the site. All emergency centers are activated following declaration of a Site Area Emergency. All non-essential personnel are evacuated from the site. Representatives from adjoining States are dispatched to the Emergency Operations Facility. Assessment of plant conditions and off-site radiological parameters determine the type of protective measures necessary for protection of the public sector. The public is notified of the event by local media facilities and periodic updates of information are released to ensure uniform, adequate response to real conditions.

A General Emergency is declared when substantial core degradation or melting has occurred, with a potential for loss of containment integrity. The possibility does exist for releases of radioactive material and response to this event emphasizes the ability to monitor the releases and to provide for protective action recommendations to State authorities.

Contracted service organizations, sponsor utilities, and other industry resources are alerted and requested to render assistance as appropriate. In addition, Federal resources are called upon for assistance. Assessment of plant conditions and off-site radiological parameters determine the type of protective action recommendations.

Plant representatives closeout or escalate the emergency classification, or move to recovery as conditions warrant. Written summaries of the event are provided to off-site authorities and other affected agencies.

The Technical Support Center Coordinator (TSCC) is responsible for initiating this procedure following an emergency classification announcement. The TSCC assumes responsibility from the Shift Supervisor/Plant Emergency Director (SS/PED), including the following primary responsibilities:

- Escalation of the emergency
- Notification of off-site NRC authorities (FTS ENS Phone), and
- Authorization of off-site protective action recommendations (PARs) by signature on VYOPF 3540.06 or VYOPF 3546.02, "Emergency Classification and PAR Notification Form"

ATTACHMENTS

- | | | |
|----|---------------|--------------------------------|
| 1. | Appendix A | Personnel Accountability Check |
| 2. | VYOPF 3542.01 | Personnel Accountability Log |

REFERENCES AND COMMITMENTS

1. Technical Specifications and Site Documents
 - a. Vermont Yankee Nuclear Power Station Emergency Plan
2. Codes, Standards and Regulations
 - a. None
3. Commitments
 - a. LAI-801
 - b. INS8626-02
 - c. SIL0324R3
4. Supplemental References
 - a. AP 0009, Event Reports
 - b. AP 0010, Situational Reporting Requirements
 - c. AP 0021, Work Orders
 - d. AP 0156, Notification of Significant Events
 - e. AP 0864, Fitness for Duty
 - f. AP 3125, Emergency Plan Classification and Action Level Scheme
 - g. OP 3504, Emergency Communications
 - h. OP 3507, Emergency Radiation Exposure Control
 - i. OP 3511, Off-site Protective Action Recommendations
 - j. OP 3513, Evaluation of Off-site Radiological Conditions
 - k. OP 3524, Emergency Actions to Ensure Initial Accountability and Security Response
 - l. OP 3540, Control Room Actions During an Emergency
 - m. OP 3541, Activation of the Technical Support Center (TSC)
 - n. OP 3544, Operation of the Operations Support Center (OSC)
 - o. OP 3545, Activation of the Emergency Operations Facility/Recovery Center (EOF/RC)
 - p. OP 3546, Operation of the Emergency Operations Facility/Recovery Center (EOF/RC)
 - q. OP 3547, Security Actions During an Emergency
 - r. OP 3531, Emergency Call-in Method
 - s. AP 6807, Collection, Temporary Storage and Retrieval of QA Records

PRECAUTIONS/LIMITATIONS

1. Refer to OP 3504 for alternate methods of communication in the event that primary methods fail.

PROCEDURE

NOTES

- The responsible individual may assign actions required to other personnel as appropriate. The designated individual, however, has the overall responsibility for the execution of the checklist.
- Record time and initials as required.
- Steps may be performed concurrently or out of sequence.
- Some steps have multiple signature lines, based on event level. The step should be initialed for each event level it is completed for. If an event escalates, each step with that event level designator should be rechecked to ensure no further action is required.

TSC Coordinator Name (print): _____

Date: _____

Time/Date

Initials

1.0 Immediate Actions

- 1.1. Contact the SS/PED to obtain specific information concerning the event.

U _____ / _____
A _____ / _____
S _____ / _____
G _____ / _____

- 1.2. For an UNUSUAL EVENT or UNUSUAL EVENT-TERMINATED, contact the Director of Public Affairs or Company Spokesperson to ensure adequate information concerning the event has been received.

Public Affairs Person Contacted

U _____ / _____

Time/Date

Initials

NOTES

- SS/PED retains responsibility for off-site States' notifications (NAS - Orange Phone) until Site Recovery Manager assumes responsibility for implementation of VY Emergency Plan
- The FTS NRC ENS phone (#41) is located in the southwest corner of the room (see Figure 4 of OP 3504)

- 1.3. Contact the SS/PED when ready to assume overall responsibility for the implementation of the VY Emergency Plan. This includes the following primary responsibilities:

U /
A /
S /
G /

1.3.1. Escalation of the emergency

1.3.2. Notification of off-site NRC authorities (FTS ENS phone), and

1.3.3. Authorization of off-site protective action recommendations (PARs).

- 1.4. Implement OP 3541, Activation of the TSC.

 /

- 1.5. Ensure that a TSC staff member is assigned to record in the TSC Logbook all TSC activities associated with exercising effective direction and control of the emergency.

A /
S /
G /

- 1.6. If a release is in progress or expected, ensure that OP 3513, "Evaluation of Off-Site Radiological Conditions" is implemented by a qualified individual.

A /
S /
G /

- 1.7. IF conditions warrant escalation to a GENERAL EMERGENCY, THEN implement OP 3511, "Off-Site Protective Action Recommendations."

G /

Time/Date

Initials

NOTE

Minimum staffing for activation includes:

- 1) TSC Coordinator
- 2) Engineering Representative
- 3) Doc. & Admin. Services Representative
- 4) Maintenance Representative
- 5) Security Representative
- 6) Operations Representative
- 7) Reactor Engineering Representative
- 8) Radiation Protection Representative
- 9) Chemistry Representative

- 1.8. Ensure that Technical Support Center Staff is in place for activation.

A /

S /

G /

- 1.9. Notify the SS/PED (and the SRM, if applicable) that the TSC is activated.

A /

S /

G /

- 1.10. Announce over the plant paging system that the TSC is activated.

A /

S /

G /

NOTE

The Emergency Response Data System (ERDS) must be enabled as soon as possible, but not later than one hour, after the initial declaration of an ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY

- 1.11. Ensure the ERDS data link with the NRC has been enabled.

A /

S /

G /

- 1.12. Maintain overall responsibility until relieved by the Site Recovery Manager.

A /

S /

G /

	Time/Date	Initials
1.13. Record time when Site Recovery Manager calls to assume responsibility for implementation of the VY Emergency Plan.	A _____	_____
	S _____	_____
SRM: _____	G _____	_____
1.14. Assign the Operations Support Center Coordinator (OSCC).	A _____	_____
	S _____	_____
	G _____	_____
1.15. IF the possibility of a radiological release is likely to occur, THEN the TSC Coordinator or designee initially directs the activities and maintains communications with site boundary and off-site teams until the EOF/RC is deemed operational.	A _____	_____
	S _____	_____
	G _____	_____
1.16. Direct a staff member to perform an initial and continuous accountability check of the TSC, OSC and CR personnel as stipulated in, Appendix A, Personnel Accountability Check.	A _____	_____
	S _____	_____
	G _____	_____
1.17. When notified by Security that the initial accountability check has been completed, contact the SRM at the EOF to report status (including any missing personnel).	A _____	_____
	S _____	_____
	G _____	_____
1.18. IF any persons are reported missing during the accountability checks, THEN perform the following steps:		
1.18.1. Page the unaccounted for individual(s) in an attempt to locate them,		
1.18.2. As necessary, direct the OSC Coordinator to dispatch an on-site search and rescue team to locate the individual(s), and,		
1.18.3. Inform the Security Access Control Officer once the individual(s) are located.		

Time/Date

Initials

NOTE

If ERFIS is not available, the assigned individual (in Step 1.19) will also relay appropriate meteorological and radiological information to the Radiological Assistant at the EOF.

- 1.19. When necessary, assign an individual to report to the Control Room to relay appropriate radiological information to the RP Checkpoint. A /
S /
G /
- 1.20. Direct and coordinate the on-site assistance team activities as follows:
- 1.20.1. Prioritize job tasks to be implemented with the SS/PED, and OSC Coordinator, if staffed.
- 1.20.2. Ensure that the applicable work control process defined in AP 0021, "Work Orders", is used.
- 1.20.3. Authorize emergency dose commitments for required job tasks in accordance with OP 3507, "Emergency Radiation Exposure Control."
- 1.20.4. Obtain periodic updates of job tasks implemented.
- 1.20.5. Periodically re-evaluate job priorities to mitigate the emergency condition and prevent or minimize release of radioactive material.
- 1.21. Review and approve all 10 CFR 50.54(x) considerations, and document in TSC Log Book. /
- 1.22. When informed by the SRM that the EOF/RC is activated, make the announcement over the plant paging system that the EOF is activated. /
Event Level

Time/Date

Initials

2.0 Subsequent Actions

NOTE

Activation of the TSC and the EOF constitutes an ALERT per AP 3125.

- | | | | | |
|------|--|---|---------------|-------|
| 2.1. | Initiate the escalation of the emergency classification as conditions warrant. | A | _____ / _____ | _____ |
| | | S | _____ / _____ | _____ |
| | | G | _____ / _____ | _____ |
| 2.2. | If warranted, ensure that manpower and planning is being conducted to provide for response efforts over an extended period. | U | _____ / _____ | _____ |
| | | A | _____ / _____ | _____ |
| | | S | _____ / _____ | _____ |
| | | G | _____ / _____ | _____ |
| 2.3. | If the NRC requests an open, continuous ENS communications channel (FTS ENS Phone), ensure a technically competent individual is available to continuously maintain the FTS ENS Phone (LAI-801). | A | _____ / _____ | _____ |
| | | S | _____ / _____ | _____ |
| | | G | _____ / _____ | _____ |
| 2.4. | Notify the Control Room that the TSC is assuming responsibility for transferring plant parameter sheets to the EOF. (VYOPF 3504.02) | A | _____ / _____ | _____ |
| | | S | _____ / _____ | _____ |
| | | G | _____ / _____ | _____ |
| 2.5. | After consultation with the OSC Coordinator, notify the Control Room that the TSC is assuming responsibility for deployment of the AOs. | A | _____ / _____ | _____ |
| | | S | _____ / _____ | _____ |
| | | G | _____ / _____ | _____ |

NOTE

Refer to OP 3504 to establish the HPN channel.

- | | | | | |
|------|--|---|---------------|-------|
| 2.6. | If the NRC requests an open, continuous Health Physics Network (HPN) Communications Channel, ensure that a technically competent individual is available to continuously maintain the HPN phone until relieved by the EOF staff (LAI-801). | A | _____ / _____ | _____ |
| | | S | _____ / _____ | _____ |
| | | G | _____ / _____ | _____ |

	<u>Time/Date</u>	<u>Initials</u>
2.7. Provide continuous technical support and assistance to the Site Recovery Manager concerning Emergency Action Levels (EALs) and emergency classifications changes (INS8626-02).	A _____ / _____ S _____ / _____	_____ _____
2.8. Transfer status information to the Site Recovery Manager as appropriate.		
2.9. Verify that continuous accountability per Appendix A, Step 5 is maintained. IF any persons are reported missing during the accountability checks, THEN perform Step 1.17 in the Immediate Actions Section.	_____ / _____	_____
<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 60%;"> <p style="text-align: center;"><u>NOTE</u></p> <p>Ensure that the status boards are updated frequently, and units of measurement are specified.</p> </div>		
2.10. Brief the TSC staff periodically on the status of the emergency and pertinent plant conditions.		
2.11. Engage in periodic discussion with the SS/PED to maintain up-to-date plant status/priorities and review intended plans.		
2.12. If deemed necessary to request emergency assistance from the General Electric BWR Emergency Support Program, refer to OP 3504 (SIL0324R3).	_____ / _____	_____
2.13. Relative to the Engineering Support Group (ESG), assign technically competent individual(s) to do the following:	_____ / _____	_____
2.13.1. Coordinate and prioritize any engineering tasks requested of the SG, and		
2.13.2. Obtain and direct the necessary support personnel to assist the ESG in their activities (INPO, Mutual Assistance, etc.)		
2.14. Announce over the plant paging system any protective actions the States may be implementing.	A _____ / _____ S _____ / _____ G _____ / _____	_____ _____ _____

	<u>Time/Date</u>	<u>Initials</u>
2.15. If it is determined that the emergency requires implementation of Severe Accident Management, duties and responsibilities will be assumed per the SAM Guideline.	A <u> / </u>	<u> </u>
	S <u> / </u>	<u> </u>
	G <u> / </u>	<u> </u>
2.16. Assign the SAM Decision Maker.	<u> / </u>	<u> </u>

FINAL CONDITIONS

	<u>Time/Date</u>	<u>Initials</u>
A. For UNUSUAL EVENT		
1. De-escalation from an emergency phase to a recovery phase will require satisfying the following criteria:		
a. Criticality controls are in effect	U <u> / </u>	<u> </u>
b. The core is being adequately cooled	U <u> / </u>	<u> </u>
c. The fission product release has been controlled.	U <u> / </u>	<u> </u>
d. Control has been established over containment pressure and temperature.	U <u> / </u>	<u> </u>
e. An adequate heat transfer path to an ultimate heat sink has been established.	U <u> / </u>	<u> </u>
f. Reactor coolant system pressure is under control.	U <u> / </u>	<u> </u>
g. UNUSUAL EVENT conditions (from AP 3125) have been reviewed, under control, and not expected to deteriorate further.	U <u> / </u>	<u> </u>
2. Immediately after the UNUSUAL EVENT has been terminated, contact the respective State Police Dispatcher for each State, using the Nuclear Alert System (NAS - Orange Phone) (VT-213, NH-212, MA-210) or use backup commercial phone numbers (VT 802-244-8727, NH 603-271-3636, MA 413-586-3166).	U <u> / </u>	<u> </u>

Time/Date

Initials

3. Request that the State Police Dispatcher advise the cognizant State official of the following:

"Vermont Yankee's UNUSUAL EVENT emergency has been terminated at _____(time) on _____(date).

Please have your cognizant official contact Vermont Yankee to provide a verbal closeout."

U ____ / ____

NOTE

In the event of an UNUSUAL EVENT which is immediately terminated, this verbal closeout may be accomplished when the State official calls for initial information.

4. Record time/date of calls and names of the State officials who were provided with the verbal closeout of the UNUSUAL EVENT.

Official Time Date

State of VT ____ / ____ / ____

State of NH ____ / ____ / ____

State of MA ____ / ____ / ____

U ____ / ____

5. Contact the Nuclear Regulatory Commission for a verbal closeout of the event.

____ / ____ / ____
NRC Contact Time Initials

U ____ / ____

6. Notify the Director of Public Affairs or designee when the event has been terminated.

U ____ / ____

7. Initiate an Event Report per AP 0009 for the event that resulted in the declaration of the UNUSUAL EVENT.

U ____ / ____

Time/Date

Initials

B. For ALERT, SITE AREA and GENERAL

1. Upon termination of the emergency, assist the Site Recovery Manager with the verbal closeout and preparation of a written report, if required, to off-site authorities.
2. Ensure that the Vernon Process Computer Engineering staff has shut off the ERDS data link with the NRC.
3. Ensure TSC equipment and facilities are returned to pre-emergency status.

_____/____

_____/____

_____/____

C. Event Closure

1. Forward this procedure to the Emergency Plan Coordinator (EPC).

_____/____

NOTE

Emergency Planning will sign off Step C.2

2. Ensure a copy of any written report is forwarded for distribution to the following:

Director of Vermont Emergency Management –
State of Vermont

Director of Massachusetts Emergency Management -
Commonwealth of Massachusetts

Director of New Hampshire Emergency Management -
State of New Hampshire

_____/____

APPENDIX A
PERSONNEL ACCOUNTABILITY CHECK

NOTE

Initial accountability should be completed as soon as possible upon the announcement of the emergency classification. A target of approximately 30 minutes should be used.

1. Obtain a copy of VYOPF 3524.02 to initiate the sign in of all individuals reporting to the TSC and OSC.
2. Ensure that individuals reporting to the TSC and OSC sign in on VYOPF 3524.02.
3. Contact the SS/PED in the Control Room to obtain the names of all personnel who are assigned to the Control Room and record names of individuals on VYOPF 3524.02.
4. As soon as possible, take the completed VYOPF 3524.02 to the Security Access Control Officer at Gatehouse 2.
5. Coordinate the implementation of continuous accountability as follows:

NOTE

Figures 1 and 3 of OP 3524 lists the monitoring post to be staffed.

- a. Assign individuals to accountability posts to monitor all personnel entering/exiting the emergency response facilities in the Administration Building per OP 3524.
- b. Instruct individuals to maintain a continuous accountability check of all personnel leaving and returning using VYOPF 3542.01.
- c. Ensure that the traffic flow of personnel enters the Administration Building through the main west entrance and all other entrances are posted by Security.
- d. If any persons are unaccounted for during accountability checks, immediately report the names to the TSC Coordinator and Security.

PERSONNEL ACCOUNTABILITY LOG

DATE _____

LOCATION _____

[illegible]

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3544

ORIGINAL

OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)

USE CLASSIFICATION: REFERENCE

LPC No.	Effective Date	Affected Pages

Implementation Statement: N/A

Issue Date: 08/07/01

TABLE OF CONTENTS

PURPOSE 3

DISCUSSION 3

ATTACHMENTS 4

REFERENCES AND COMMITMENTS 4

PRECAUTIONS/LIMITATIONS 5

PROCEDURE 6

 1.0 Immediate Actions 6

 2.0 Subsequent Actions 10

FINAL CONDITIONS 11

PURPOSE

To outline the operation of the Operations Support Center.

DISCUSSION

There are four emergency classifications, Unusual Event, Alert, Site Area Emergency, and General Emergency. The decision to make an immediate initial declaration rests with the Shift Supervisor/Plant Emergency Director, who, in turn, instructs Control Room personnel to activate the notification system. Notification of State authorities must be initiated within 15 minutes after the event has been classified. The NRC must be notified immediately after the States' notification, but not later than one (1) hour after the event has been classified.

An Unusual Event is defined as any plant-related event which indicates a potential degradation of plant safety margins which is not likely to affect personnel on-site or the public off-site or result in radioactive releases requiring off-site monitoring. Unusual Event conditions will not have caused serious damage to the plant and may not require a change in operation status.

The basic shift complement is able to deal with Unusual Event conditions. On-duty personnel are assigned to functions as required. Additional members of the plant organization, including top management, are notified by Plant Security, and augment on-duty personnel as necessary. The Duty On Call Officer who is available on an on-call basis must report to the site and will assume the role of the TSC Coordinator. Dissemination of public information and closure or escalation to a more severe classification will occur as conditions warrant.

An Alert event is defined as an indication of a substantial degradation of plant safety margins which could affect on-site personnel safety, could require off-site impact assessment, but is not likely to require off-site protective action.

An Alert event requires action beyond the normal capability of the basic shift complement. Plant response and off-site notification associated with this event classification ensure that sufficient emergency response personnel are mobilized to activate the Technical Support Center (TSC) and the Operations Support Center (OSC). The Emergency Operations Facility/Recovery Center (EOF/RC) is activated with the Site Recovery Manager (SRM), the EOF Coordinator and other EOF/RC staff members. Sufficient emergency assistance personnel to assess off-site radiological impact are assigned if the Alert event is producing releases off-site. Actual releases of radioactivity which substantially exceed Technical Specification limits may be involved and thus radiation monitoring and dose projection may be an integral portion of the emergency response required. Prompt notification is made to State authorities and follow-up information is provided as needed to off-site emergency organizations.

A Site Area Emergency indicates an event which involves likely or actual major failures of plant functions needed for the protection of the public. The possibility does exist for some releases of radioactive material and response to this event emphasizes the ability to monitor the releases and to provide action recommendations to State authorities and follow-up information as needed to off-site emergency organizations.

Plant resources are anticipated to be sufficient to cope with a Site Area Emergency. Outside resources, however, are mobilized and selected members are dispatched to the site. All emergency centers are activated following declaration of a Site Area Emergency. All non-essential personnel are evacuated from the site. Representatives from adjoining States are dispatched to the Emergency Operations Facility. Assessment of plant conditions and off-site radiological parameters determine the type of protective measures necessary for protection of the public sector. The public is notified of the event by local media facilities and periodic updates of information are released to ensure uniform, adequate response to real conditions.

A General Emergency is declared when substantial core degradation or melting has occurred, with a potential for loss of containment integrity. The possibility does exist for releases of radioactive material and response to this event emphasizes the ability to monitor the releases and to provide for protective action recommendations to State authorities.

Contracted service organizations, sponsor utilities, and other industry resources are alerted and requested to render assistance as appropriate. In addition, Federal resources are called upon for assistance. Assessment of plant conditions and off-site radiological parameters determine the type of protective action recommendations.

Plant representatives closeout or escalate the emergency classification, or move to recovery as conditions warrant. Written summaries of the event are provided to off-site authorities and other affected agencies.

The Operations Support Center Coordinator (OSCC) is responsible for initiating this procedure following appointment by the Technical Support Center Coordinator.

ATTACHMENTS

- | | | |
|----|---------------|---|
| 1. | Appendix A | Radiological Habitability Assessment |
| 2. | Appendix B | On-Site Assistance Team Checklist |
| 3. | VYOPF 3544.01 | Emergency Conditions Radiological Assessment Form |
| 4. | VYOPF 3544.02 | OSC Team Work Status Form |

REFERENCES AND COMMITMENTS

1. Technical Specifications and Site Documents
 - a. Vermont Yankee Nuclear Power Station Emergency Plan
2. Codes, Standards and Regulations
 - a. None
3. Commitments
 - a. EPEX86RP1
 - b. EPEX8803CPE1
 - c. INS9007CPE3

4. Supplemental References

- a. AP 0009, Event Reports
- b. AP 0010, Situational Reporting Requirements
- c. AP 0021, Work Orders
- d. AP 0156, Notification of Significant Events
- e. AP 0864, Fitness for Duty
- f. AP 3125, Emergency Plan Classification and Action Level Scheme
- g. OP 3504, Emergency Communications
- h. OP 3507, Emergency Radiation Exposure Control
- i. OP 3508, On-Site Medical Emergency Procedure
- j. OP 3510, Off-Site and Site Boundary Monitoring
- k. OP 3531, Emergency Call-in Method
- l. OP 3540, Control Room Actions During an Emergency
- m. OP 3541, Activation of the Technical Support Center (TSC)
- n. OP 3542, Operation of the Technical Support Center (TSC)
- o. OP 3545, Activation of the Emergency Operations Facility/Recover Center (EOF/RC)
- p. OP 3546, Operation of the Emergency Operations Facility/Recover Center (EOF/RC)
- q. OP 3547, Security Actions During an Emergency
- r. AP 6807, Collection, Temporary Storage and Retrieval of QA Records

PRECAUTIONS/LIMITATIONS

- 1. Refer to OP 3504 for alternate methods of communication in the event that primary methods fail.

PROCEDURE

NOTES

- The responsible individual may assign actions required to other personnel as appropriate. The designated individual, however, has the overall responsibility for the execution of the checklist.
- Record time and initials as required.
- Steps may be performed concurrently or out of sequence.
- Some steps have multiple signature lines, based on event level. The step should be initialed for each event level it is completed for. If an event escalates, each step with that event level designator should be rechecked to ensure no further action is required.

OSC Coordinator Name (print): _____

Date: _____

Time/Date

Initials

1.0 Immediate Actions

- | | | | |
|------|--|-----------------|-------|
| 1.1. | Provide support to the Control Room as requested. | A _____ / _____ | _____ |
| | | S _____ / _____ | _____ |
| | | G _____ / _____ | _____ |
| 1.2. | Assist in coordination of Operations relief planning. | A _____ / _____ | _____ |
| | | S _____ / _____ | _____ |
| | | G _____ / _____ | _____ |
| 1.3. | Ensure that Operations Support Center (OSC) Staff is in place. | A _____ / _____ | _____ |
| | | S _____ / _____ | _____ |
| | | G _____ / _____ | _____ |
| 1.4. | Assign an OSC Coordinator Assistant: | | |
| | Name: _____ | _____ / _____ | _____ |
| 1.5. | IF there are indications that a stack release is in progress, THEN have OSC personnel obtain a stack sample immediately. (EPEX86RP1) | A _____ / _____ | _____ |
| | | S _____ / _____ | _____ |
| | | G _____ / _____ | _____ |

- | | | <u>Time/Date</u> | <u>Initials</u> |
|------|--|---|-------------------------|
| 1.6. | IF there is no indication of a stack release,
THEN perform stack sampling as required. | A _____ / _____
S _____ / _____
G _____ / _____ | _____

_____ |
| 1.7. | Ensure that the names of personnel
stationed at the OSC are reported to
Security as soon as possible. | A _____ / _____
S _____ / _____
G _____ / _____ | _____

_____ |
| 1.8. | Assign a qualified individual to implement
Appendix A, Radiological Habitability
Assessment. | A _____ / _____
S _____ / _____
G _____ / _____ | _____

_____ |
| 1.9. | Designate qualified personnel to implement
the following tag board emergency team
assignments as applicable and as they
become available: | | |

1.9.1. Governor Hunt House Monitoring Team

Names: _____ (Leader)

_____ / _____

The Team Leader or designee opens the
GHH Monitoring Kit located at the OSC,
obtains the clipboard and follows
instructions per OP 3510.
(EPEX8803CPE1)

1.9.2. Site Boundary Survey Team

Names: _____ (Leader)

_____ / _____

The Team Leader or designee opens the
Site Boundary Kit located at the OSC,
obtains the clipboard and follows
instructions per OP 3510.

Time/Date

Initials

1.9.3. Off-Site Green Team

Names: _____ (Leader)

_____/_____

The Team Leader or designee opens one Off-Site Monitoring Kit located at the OSC, obtains the clipboard and follows instructions per OP 3510.

1.9.4. Off-Site Blue Team

Names: _____ (Leader)

_____/_____

The Team Leader or designee opens one Off-Site Monitoring Kit located at the OSC, obtains the clipboard and follows instructions per OP 3510.

1.9.5. Off-Site Black Team

NOTE

This additional off-site team may be deployed at the discretion of the Radiological Coordinator.

Names: _____ (Leader)

_____/_____

The Team Leader or designee opens one Off-Site Monitoring Kit located at the OSC, obtains the clipboard and follows instructions per OP 3510.

- 1.10. Coordinate the implementation of on-site assistance team activities with the TSC Coordinator as follows:

NOTE

Depending on the nature of the task, teams will be assembled as appropriate. When more than one member is involved, a Work Coordinator will be assigned. The work Coordinator or assigned individual has total responsibility for all work associated with the job.

- 1.10.1. Designate a Work Coordinator (if applicable) and team members based on job task requirements and conditions.

- 1.10.2. Maintain a continuous accountability of OSC on-site assistance team assignments and tasks as follows:

- 1.10.2.1. Complete the appropriate sections of
VYOPF 3544.02, OSC
Team Work Status Form. _____ / _____

NOTE

Work Status forms (VYOPF 3544.02) are posted in the OSC hallway.

- 1.10.2.2. To help identify for OSC personnel the mission of the OSC Teams, ensure that VYOPF 3544.02, OSC Team Work Status Form is posted and updated in the OSC.
(INS9007CPE3) _____ / _____

- 1.10.3. For tasks involving on-site repair activities, instruct the Work Coordinator or assigned individual to implement Appendix B, On-Site Assistance Team Checklist. _____ / _____

	<u>Time/Date</u>	<u>Initials</u>
1.10.4. For tasks involving injured personnel of search and rescue activities, instruct the team members to implement applicable steps in Appendix B, On-Site Assistance Team Checklist, and OP 3508, On-Site Medical Emergency Procedure.	/	
1.10.5. Provide teams with the necessary instructions and pertinent plant status conditions to initiate and conduct job tasks.	/	
1.10.6. When On-Site Assistance/Rescue Teams return from their assignments, ensure that the close out of the work effort is completed and documented.	/	
 2.0 Subsequent Actions		
2.1. Assist in the coordination of recovery efforts as requested by the TSC.	A /	
	S /	
	G /	
<p><u>NOTE</u></p> <p>Consideration should be given to the importance of assessing plant conditions, sample locations and sample activity.</p>		
2.2. Coordinate the implementation of post accident sampling, and prioritize the assignment of desired samples to be collected and analyzed with the Radiation Protection Coordinator (or designated alternate) at the TSC, as conditions warrant.	A /	
	S /	
	G /	
2.3. Periodically ensure that radiological assessment is performed according to Appendix A for the OSC, TSC, Control Room and Gates 1 and 2.	/	

		<u>Time/Date</u>	<u>Initials</u>
2.4.	Ensure that unassigned OSC personnel remain within the OSC.	<u> / </u>	<u> </u>
2.5.	Periodically assess the personnel situation at the OSC, dispatch extra reserves to the EOF/RC as directed by the TSC Coordinator.	<u> / </u>	<u> </u>
2.6.	Report findings to and receive instruction from the Shift Supervisor/Plant Emergency Director and/or the TSC Coordinator.		

NOTE

The OSC Coordinator will base his operations in the OSC but may find it necessary to go to the TSC from time to time.

2.7.	If deemed necessary, assign as individual to the TSC who will remain in contact with the OSC.	A <u> / </u>	<u> </u>
		S <u> / </u>	<u> </u>
		G <u> / </u>	<u> </u>
2.8.	Periodically brief OSC personnel on current plant conditions and significant developments.	<u> / </u>	<u> </u>

FINAL CONDITIONS

1.	Ensure the OSC is returned to pre-emergency status.	<u> / </u>	<u> </u>
2.	Submit completed copies of this procedure to the TSC Coordinator.	<u> / </u>	<u> </u>
3.	Send all dosimetry and records to the Radiological Assistant for evaluation.	<u> / </u>	<u> </u>

APPENDIX A

RADIOLOGICAL HABITABILITY ASSESSMENT

1. Obtain a copy of OP 3507, Emergency Radiation Exposure Control.
2. Obtain a RM-14/20, a PIC-6, or other suitable dose rate instrument and a low volume air sampler. Perform the necessary function checks on the instrumentation.
3. If no multichannel analysis of the sample is available, utilize silver zeolite cartridges for quantitative iodine results.
4. Monitor conditions in the area(s) assigned:

OSC Responsibility

OSC

TSC

Control Room

Gate 1, 2

Other Areas: _____, _____, _____

5. Ensure the placement of two (2) high range ion chamber or electronic dosimeters in a representative location for the assessment of total exposure for each of the above locations.
6. Relative to KI usage, implement OP 3507.
7. Report findings and recommendations on VYOPF 3544.01 and submit to the TSC Coordinator or EOF Coordinator (if applicable).

NOTE

Additional information, such as area surveys, should be recorded on the reverse side of VYOPF 3544.01.

APPENDIX B

ON-SITE ASSISTANCE TEAM CHECKLIST

NOTE

The Work Coordinator or assigned individual has total responsibility for all work associated with the job. Work Control process defined in AP 0021, Work Orders, must be used as appropriate.

1. Determine appropriate work controls, necessary equipment, spare parts, and services and their availability.
2. Receive status update and instructions from the OSC Coordinator or designated assistant.
3. Obtain appropriate radiation protection information and plant radiological conditions.
4. Ensure that a dose commitment for the job task is established in accordance with OP 3507, "Emergency Radiation Exposure Control".
5. Prior to team deployment, ensure that team members are briefed on the specific work controls and radiation protection controls to be followed for the job task.
6. Provide periodic updates on work effort status and other significant information to the OSC Coordinator or designated assistant especially area radiation levels and accrued exposure values.
7. Upon job completion, ensure that appropriate close out of the work effort is completed (i.e., job status notification, team debriefing, and work effort documentation).

EMERGENCY CONDITIONS RADIOLOGICAL ASSESSMENT FORM

DATE _____

TIME _____

LOCATION OF SAMPLING _____

DATA

Maximum Dose Rate (W.B.) _____

Average Dose Rate (W.B.) _____

Air Sample Results (silver zeolite cartridge? ☐ YES ☐ NO) _____

RECOMMENDED ACTION

(From sampling information and specifications in Appendices A and B of OP 3507, Emergency Radiation Exposure Control)

COMMENTS

NOTE

Additional information, such as area surveys, should be recorded on the reverse side of this form.

_____/_____
Surveyor (print/sign) Date

OSC TEAM WORK STATUS FORM

JOB NO. _____

JOB LOCATION _____

BRIEF JOB DESCRIPTION:

NAME OF OSC TEAM MEMBERS

Work Coordinator (if applicable)

Team Members:

EMERGENCY DOSE COMMITMENT REQUIRED? (VYOPF 3507.02 ATTACHED)

☐ YES ☐ NO

RAD PROTECTION INITIALS: _____

TIME TEAM DISPATCHED: _____ TIME TEAM RETURNED: _____

OSC COORDINATOR'S FINAL INITIALS: _____

[Copy and post in OSC hallway]

VYOPF 3544.02
OP 3544 Original
Page 1 of 1

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3545

ORIGINAL

ACTIVATION OF THE
EMERGENCY OPERATIONS FACILITY/RECOVERY CENTER (EOF/RC)

USE CLASSIFICATION: **REFERENCE**

LPC No.	Effective Date	Affected Pages

Implementation Statement: N/A

Issue Date: 08/07/01

TABLE OF CONTENTS

PURPOSE 3

DISCUSSION 3

ATTACHMENTS 3

REFERENCES AND COMMITMENTS 4

PRECAUTIONS/LIMITATIONS 4

PROCEDURE..... 5

FINAL CONDITIONS..... 6

PURPOSE

To outline the actions required to activate the Emergency Operations Facility/Recovery Center (EOF/RC).

DISCUSSION

The EOF/RC is activated depending on the classification of the emergency. There are four emergency classifications, Unusual Event, Alert, Site Area Emergency, and General Emergency. The decision to make an immediate initial declaration rests with the Shift Supervisor/Plant Emergency Director.

An Unusual Event is defined as any plant-related event which indicates a potential degradation of plant safety margins which is not likely to affect personnel on-site or the public off-site or result in radioactive releases requiring off-site monitoring. Unusual Event conditions will not have caused serious damage to the plant and may not require a change in operation status.

An Alert event is defined as an indication of a substantial degradation of plant safety margins which could affect on-site personnel safety, could require off-site impact assessment, but is not likely to require off-site protective action.

A Site Area Emergency indicates an event which involves likely or actual major failures of plant functions needed for the protection of the public. The possibility does exist for some releases of radioactive material and response to this event emphasizes the ability to monitor the releases and to provide action recommendations to State authorities and follow-up information as needed to off-site emergency organizations.

A General Emergency is declared when substantial core degradation or melting has occurred, with a potential for loss of containment integrity. The possibility does exist for releases of radioactive material and response to this event emphasizes the ability to monitor the releases and to provide for protective action recommendations to State authorities.

The first individual to arrive at the EOF is responsible for initiating this procedure following an emergency classification announcement.

ATTACHMENTS

1. Appendix A Recovery Manager Staff Responsibilities
2. Table 1 Personnel Assignment List
3. Table 2 Equipment Locations
4. Figure 1 EOF/RC Footprint (Room 121/122)
5. Figure 2 EOF/RC Footprint (Room 125/126)
6. Figure 3 EOF/RC layout

REFERENCES AND COMMITMENTS

1. Technical Specifications and Site Documents
 - a. Vermont Yankee Nuclear Power Station Emergency Plan
2. Codes, Standards and Regulations
 - a. None
3. Commitments
 - a. None
4. Supplemental References
 - a. AP 3125, Emergency Plan Classification and Action Level Scheme
 - b. OP 3504, Emergency Communications
 - c. OP 3507, Emergency Radiation Exposure Control
 - d. OP 3531, Emergency Call-in Method
 - e. OP 3540, Control Room actions During an Emergency
 - f. OP 3541, Activation of the Technical Support Center (TSC)
 - g. OP 3542, Operation of the Technical Support Center (TSC)
 - h. OP 3544, Operation of the Operations Support Center (OSC)
 - i. OP 3546, Operation of the Emergency Operations Facility/Recovery Center (EOF/RC)
 - j. OP 3547, Security Actions During an Emergency
 - k. AP 6807, Collection, Temporary Storage and Retrieval of QA Records

PRECAUTIONS/LIMITATIONS

1. Refer to OP 3504 for alternate methods of communication in the event that primary methods fail.

PROCEDURE

NOTE

Steps may be performed concurrently or out of sequence.

Name (print): _____ Time/Date Initials

- 1.0 Establish the Emergency Operations Facility /Recovery Center for activation. (See Figures 1 & 2)

_____ / _____

NOTE

Key staff are required to sign in on the staffing board in the SRM area.

- 2.0 Assign personnel as required to the various functions in the Emergency Operations facility. (See Table 1)

_____ / _____

- 3.0 Prepare facilities for the arrival of off-site authorities and other support personnel.

_____ / _____

- 3.1. Obtain keys for the EOF Emergency Equipment Cabinets from the Training Building Security desk and open cabinets. (See Table 2)

_____ / _____

- 3.2. Turn on ERFIS PC's and monitors located at the EOF/RC and display current meteorological data.

_____ / _____

3.2.1. Click on ODPS.

3.2.2. Click on Historical Meteorological Data – 1.

- 3.3. Test additional phones and check radios, etc. per Figure 6 of OP 3504.

_____ / _____

- 3.4. Organize equipment, status and mapboards per Figures 1 & 2.

_____ / _____

- 3.5. Direct the placement of EOF area signs as time and personnel availability permit.

_____ / _____

- 4.0 Activation

- 4.1. All required positions on Table 1 are filled.

_____ / _____

- 4.2. Report to the EOF Coordinator, or Assistant that the EOF is ready to be activated.

_____ / _____

FINAL CONDITIONS

1. Return completed procedure to the Emergency Plan Coordinator for filing in accordance with AP 6807.

APPENDIX A

RECOVERY MANAGER STAFF RESPONSIBILITIES

OPS ADVISOR #1

- Initially test both the primary and the alternate auto-ring down circuits and then implement one. Continuously monitor for users who fail to mute their microphone when not actually speaking and advise them to do so.
- Monitor ring down circuit, advise SRM of major events.
- Evaluate need for escalation, protective action recommendation, de-escalation.
- During escalations and de-escalations, advise the PED to sound the proper emergency alarm at the same time the State Advisor makes his declaration.
- Maintain a current bound log of events and SRM decisions.
- Be particularly careful not to direct or instruct control room personnel in the performance of their duties.
- Advise the PED to make a single (initial) ISO notification at the Alert, Site Area, or General Emergency level.

OPS ADVISOR #2

- Complete Statement of Emergency Classification & Protective Action Recommendation. Serialize each new form and obtain SRM approval.
- Identify plant parameters which are of substantial concern or which have significant trends.
- Brief all SRM Staff in the SRM Communications Area (e.g., State Advisor, Media Advisor, Radiological Advisor, etc.) of each significant plant parameter change, escalation, or PAG recommendation.
- Establish a rhythm of regular SRM staff briefings. Alternates should be prepared to step in immediately and without direction if the primary individual becomes tied up.

APPENDIX A (Continued)

STATE ADVISOR

- Set Up State Area, including set-up of status information and removal of training materials.
- Identify spokesman for each State and complete status information.
- Provide initial briefings as State Representatives arrive and additional briefings on a regularly scheduled basis (i.e., 15 minute intervals). Advise information on each significant change in plant parameters, escalations or de-escalations, PAG recommendations, and METPAC calculations.
- Maintain any VY Status Boards in the State Area and ensure status boards are consistent with SRM area status boards.
- Provide copies of appropriate status forms to State and NRC representatives. Return original forms to Ops. Advisor #2.
- Respond to State questions, and update Media Advisor.
- Make Compliance Advisor aware of States which have not responded to ensure proper orange phone notification.
- Provide feedback to the SRM directly or via the Ops. Advisor #2 regarding State questions and concerns.

COMPLIANCE ADVISOR

- Review E-Plan Implementation Procedures and Technical Specifications to ensure SRM completion of required steps.
- Prompt SRM/State Advisor to maintain 15 minute briefings.
- Function as SRM gatekeeper.
- Make Orange Phone Notifications when required by procedure and with SRM concurrence. Log and inform the Media Advisor of such notifications.
- In concert with the Media Advisor, coordinate the "uneventful merge" of the NRC Site Team.
- Prompt SRM to personally notify Governor on escalations/protective action recommendations. Log such notifications.
- Maintain status boards in SRM office.
- Log significant incoming calls.

APPENDIX A (Continued)

NMC TECHNICAL REPRESENTATIVE

- Brief the state media representatives of each significant change in plant parameters, plant escalations, or de-escalations and PAG recommendations.
- Participate in regular media briefings and respond to technical questions.

MEDIA ADVISOR

- Assist in the preparation of press releases and obtain SRM signature on press releases.
- Turn on (up position) all EOF PA speaker switches. Make PA announcements for EOF activation, escalations and de-escalations of emergency status. Dial 78 (Tone) 1 for EOF or 78 (Tone) 0 for all areas.
- In addition to announcements for escalations, periodically (e.g., every 30 minutes) make PA announcements of the current emergency status. A suitable announcement may be "THIS IS A DRILL. Plant conditions remain at the Alert level. THIS IS A DRILL."
- Maintain status boards in the SRM Area and ensure status boards are consistent throughout the SRM and EOF Coordinator's areas.
- Instruct the switchboard operator not to make public address announcements after the EOF has been activated.
- In concert with the Compliance Advisor, coordinate the "uneventful merge" of the NRC Site Team.
- Assist the Recovery Staff (CA, SA, OAS) in collecting information and resources to provide for long term operation of the site recovery function (e.g., manpower, food, reference materials, other logistical concerns).
- Brief the NMC Technical Representative at the Media Center.
- Confirm Contracts/Purchasing staff is in place.
- Synchronize clocks throughout the EOF.

APPENDIX A (Continued)

RADIOLOGICAL ADVISOR

- Provide meteorological data initially, periodically and upon changing conditions to Ops. Advisor #2. Watch carefully for the first and all subsequent METPAC data and graphics. Continuously ensure Ops. Advisor #2 has current METPAC and METDATA information. Also, be alert for any stack gas instrument changes which may be telephoned directly to the EOF Coordinator's radiological assistant or off-site monitoring team coordinator.
- Project future concerns based on existing radiological and meteorological conditions and notify SRM of significant potential events or non-conservatism.
- Update Ops. Advisor #2 of upper and lower wind speed and direction.
- Evaluate radiological conditions, and advise the SRM.
- Assist the State Advisor in any State briefings which include Release Information or Protective Action Recommendations.
- Maintain plume dispersion map wheel. Ensure that the SRM and State map wheels are properly maintained.
- Investigate other radiological concerns as requested by the SRM.

TABLE 1
PERSONNEL ASSIGNMENT LIST

Required for Activation	Personnel
Site Recovery Manager	_____
EOF Coordinator	_____
EOF Coordinator's Assistant	_____
Radiological Assistant	_____
Communication Assistant	_____
Manpower & Planning Assistant	_____
Personnel & Equipment Monitors	_____
Personnel & Equipment Monitors	_____
Positions to be Staffed	(not required for activation)
SRM Compliance Advisor (required to assume communication function)	_____
Purchasing Coordinator	_____
Radiological Coordinator	_____
Nuclear Information Director	_____
SRM Ops Advisor #1	_____

TABLE 1 (Continued)

Other Positions to be Staffed (cont.)

SRM Ops Advisor #2	
SRM State Advisor	
NMC Technical Representative	
SRM Media Advisor	
SRM Radiological Advisor	
ERFIS Operator	
METPAC Operator	

TABLE 2
EQUIPMENT LOCATIONS

Cabinet No.	Location
1	In the Site Recovery Manager's Office area.
2	In the hallway outside room 126, contains equipment for Room 125/126.
3	In the Hallway across from the Chemistry Lab, contains equipment for use by the Radiological Assistant and staff.
4	In the hallway across from the Chemistry Lab, contains equipment for use by the Radiological Assistant and staff.

Other Equipment Areas to be opened

Sprinkler Room (back of room 118) contains equipment for the Radiological Assistant and staff.

State Cabinets in Room 117. Upper and Lower cabinets. Contain equipment for the State EOF responders. DO NOT REMOVE EQUIPMENT FROM THESE CABINETS - just open them.

FIGURE 1
EOF/RC FOOTPRINT (ROOM 121/122)

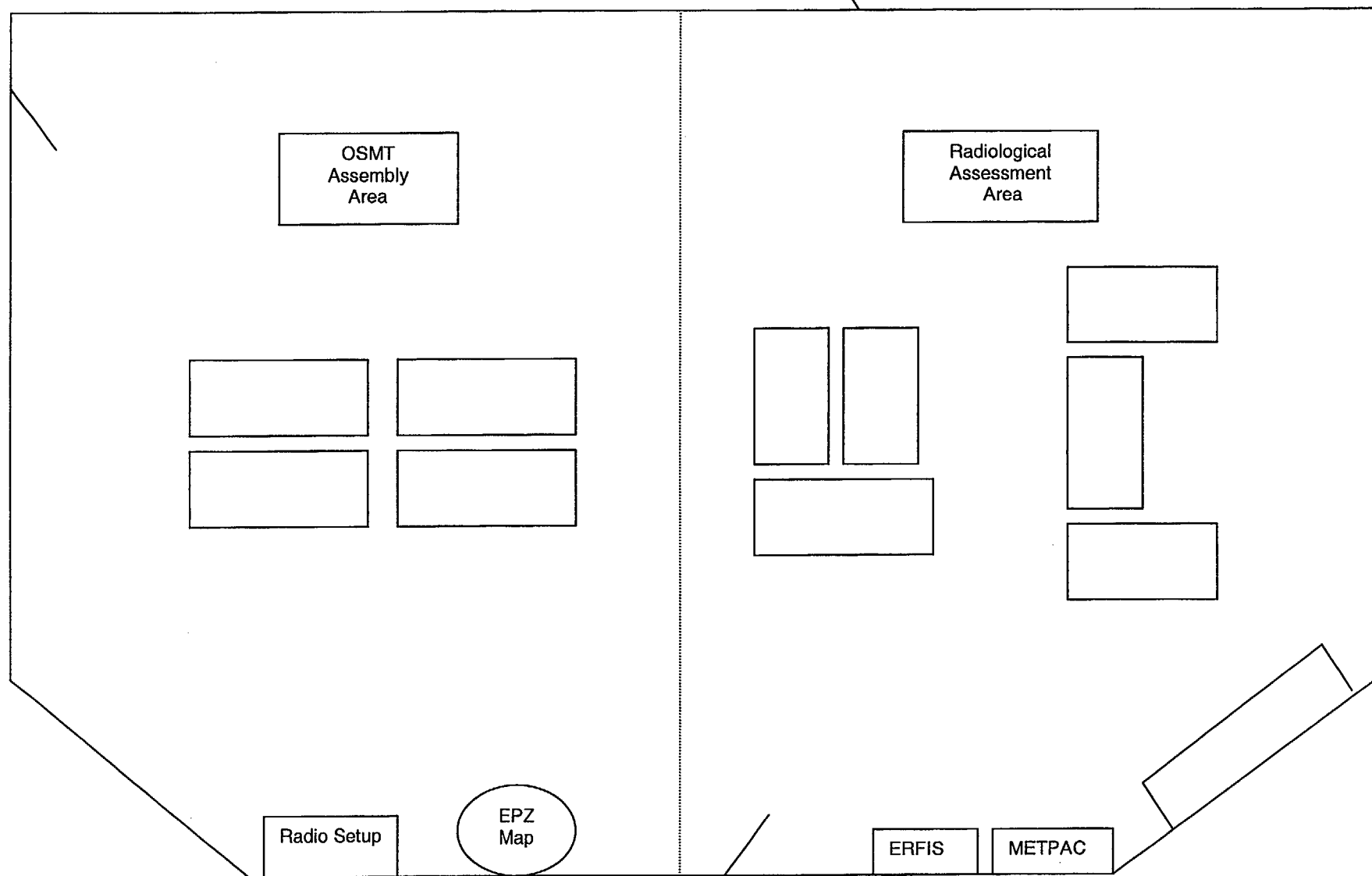


Figure 1
OP 3545 Original
Page 1 of 1

FIGURE 2
EOF/RC FOOTPRINT (ROOM 125/126)

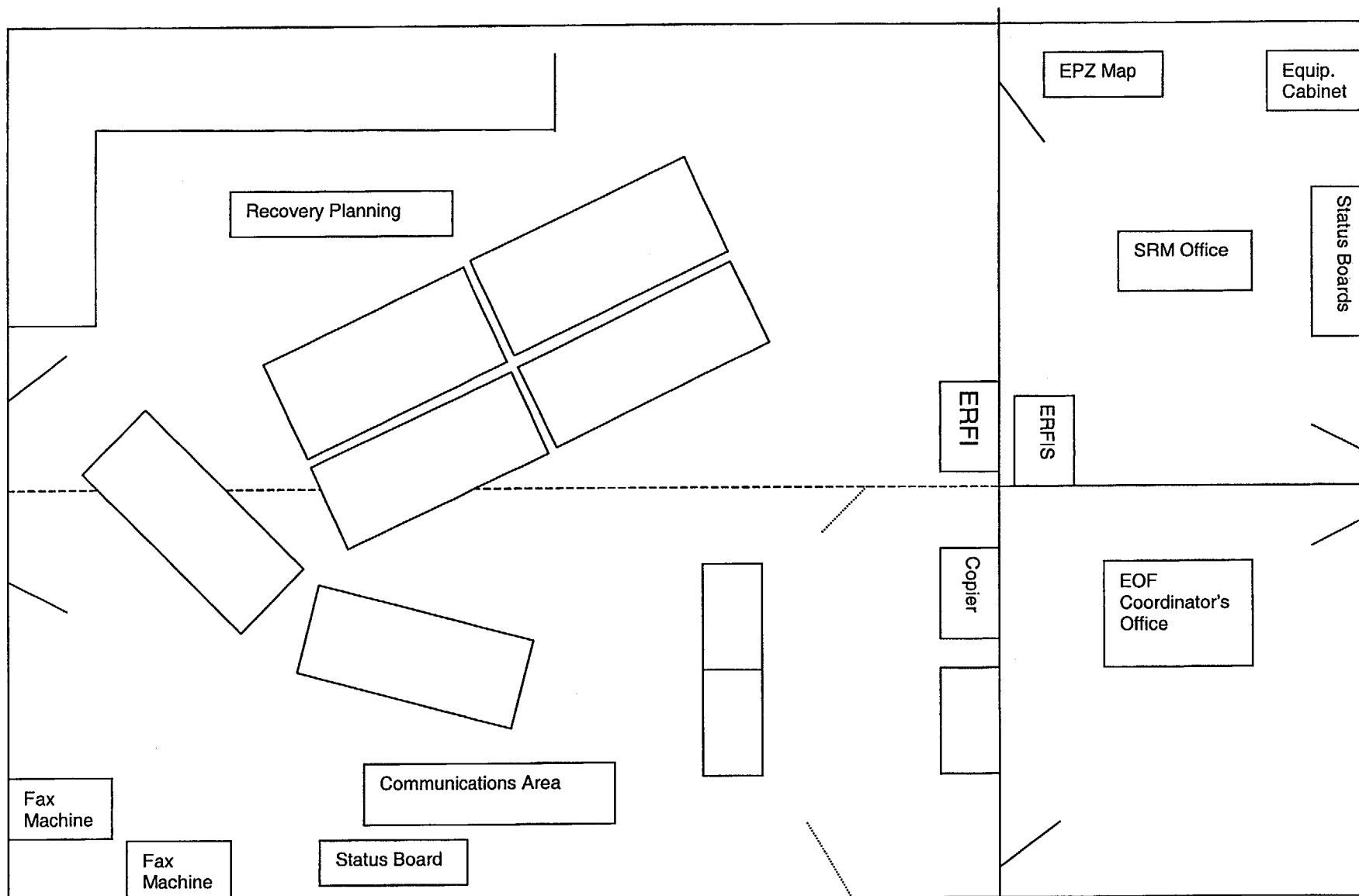


Figure 2
OP 3545 Original
Page 1 of 1

**FIGURE 3
EOF/RC LAYOUT**

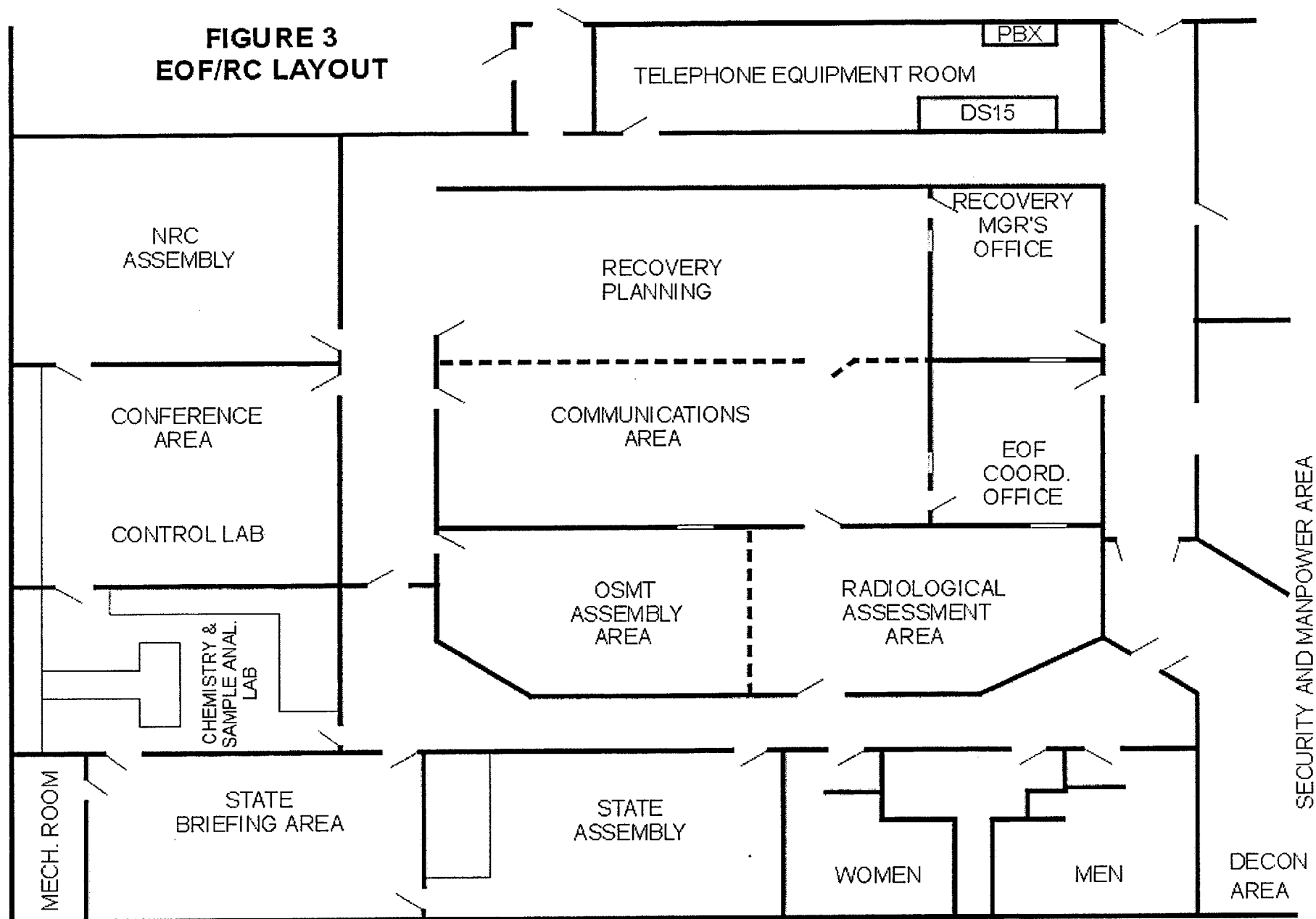


Figure 3
OP 3545 Original
Page 1 of 1

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3546

ORIGINAL

OPERATION OF THE
EMERGENCY OPERATIONS FACILITY/RECOVERY CENTER (EOF/RC)

USE CLASSIFICATION: REFERENCE

LPC No.	Effective Date	Affected Pages

Implementation Statement: N/A

Issue Date: 08/07/01

TABLE OF CONTENTS

PURPOSE 3

DISCUSSION 3

ATTACHMENTS 4

REFERENCES AND COMMITMENTS 5

PRECAUTIONS/LIMITATIONS 5

PROCEDURE 6

FINAL CONDITIONS 6

PURPOSE

This procedure outlines operation of the Emergency Operations Facility/Recovery Center (EOF/RC).

DISCUSSION

There are four emergency classifications, Unusual Event, Alert, Site Area Emergency, and General Emergency. The decision to make an immediate initial declaration rests with the Shift Supervisor/Plant Emergency Director, who, in turn, instructs Control Room personnel to activate the notification system. Notification of State authorities must be initiated within 15 minutes after the event has been classified. The NRC must be notified immediately after the States' notification, but not later than one (1) hour after the event has been classified.

An Unusual Event is defined as any plant-related event which indicates a potential degradation of plant safety margins which is not likely to affect personnel on-site or the public off-site or result in radioactive releases requiring off-site monitoring. Unusual Event conditions will not have caused serious damage to the plant and may not require a change in operation status.

The basic shift complement is able to deal with Unusual Event conditions. On-duty personnel are assigned to functions as required. Additional members of the plant organization, including top management, are notified by Plant Security, and augment on-duty personnel as necessary. The Duty On Call Officer who is available on an on-call basis must report to the site and will assume the role of the TSC Coordinator. Dissemination of public information and closure or escalation to a more severe classification will occur as conditions warrant

An Alert event is defined as an indication of a substantial degradation of plant safety margins which could affect on-site personnel safety, could require off-site impact assessment, but is not likely to require off-site protective action.

An Alert event requires action beyond the normal capability of the basic shift complement. Plant response and off-site notification associated with this event classification ensure that sufficient emergency response personnel are mobilized to activate the Technical Support Center and the Operations Support Center. The Emergency Operations Facility/Recovery Center is activated with the Site Recovery Manager, the EOF Coordinator and other EOF/RC staff members. Sufficient emergency assistance personnel to assess off-site radiological impact are assigned if the Alert event is producing releases off-site. Actual releases of radioactivity which substantially exceed Technical Specification limits may be involved and thus radiation monitoring and dose projection may be an integral portion of the emergency response required. Prompt notification is made to State authorities and follow-up information is provided as needed to off-site emergency organizations.

A Site Area Emergency indicates an event which involves likely or actual major failures of plant functions needed for the protection of the public. The possibility does exist for some releases of radioactive material and response to this event emphasizes the ability to monitor the releases and to provide action recommendations to State authorities and follow-up information as needed to off-site emergency organizations.

Plant resources are anticipated to be sufficient to cope with a Site Area Emergency. Outside resources, however, are mobilized and selected members are dispatched to the site. All emergency centers are activated following declaration of a Site Area Emergency. All non-essential personnel are evacuated from the site. Representatives from adjoining States are dispatched to the Emergency Operations Facility. Assessment of plant conditions and off-site radiological parameters determine the type of protective measures necessary for protection of the public sector. The public is notified of the event by local media facilities and periodic updates of information are released to ensure uniform, adequate response to real conditions.

A General Emergency is declared when substantial core degradation or melting has occurred, with a potential for loss of containment integrity. The possibility does exist for releases of radioactive material and response to this event emphasizes the ability to monitor the releases and to provide for protective action recommendations to State authorities.

Contracted service organizations, sponsor utilities, and other industry resources are alerted and requested to render assistance as appropriate. In addition, Federal resources are called upon for assistance. Assessment of plant conditions and off-site radiological parameters determine the type of protective action recommendations.

Plant representatives closeout or escalate the emergency classification, or move to recovery as conditions warrant. Written summaries of the event are provided to off-site authorities and other affected agencies.

Emergency Classification and PAR Notification Form (VYOPF 3546.02) specifies the contents and formal States notifications of emergency classifications and protective action recommendations (PARs) by Vermont Yankee, and is used by the Control Room or SRM in the authorization and transmittal of these notifications. Prior to the SRM assuming responsibility for the emergency response, the TSC Coordinator can authorize escalations and PARs, but the Control Room retains transmittal responsibilities to off-site agencies.

ATTACHMENTS

- | | | |
|-----|---------------|--|
| 1. | Appendix A | Site Recovery Manager |
| 2. | Appendix B | Emergency Operations Center Coordinator |
| 3. | Appendix C | Emergency Operations Center Coordinator Assistant |
| 4. | Appendix D | Personnel & Equipment Monitoring Team |
| 5. | Appendix E | Communications Assistant |
| 6. | Appendix F | Radiological Assistant |
| 7. | Appendix G | Manpower & Planning Assistant |
| 8. | VYOPF 3546.01 | Plant Status Briefing Form |
| 9. | VYOPF 3546.02 | Emergency Classification and PAR Notification Form |
| 10. | VYOPF 3546.03 | Instructions to Personnel Prior to Being Released from the Assembly Area |
| 11. | Table 1 | Radiological Assistant's Organization |

REFERENCES AND COMMITMENTS

1. Technical Specifications and Site Documents
 - a. Vermont Yankee Nuclear Power Station Emergency Plan
2. Codes, Standards and Regulations
 - a. None
3. Commitments
 - a. INS8722-01
 - b. E_Drill-98EOF3
 - c. LAI-801
 - d. EPEX97TSC-2
4. Supplemental References
 - a. AP 0009, Event Reports
 - b. AP 0010, Situational Reporting Requirements
 - c. AP 0021, Work Orders
 - d. AP 0156, Notification of Significant Events
 - e. AP 0864, Fitness for Duty
 - f. AP 3125, Emergency Plan Classification and Action Level Scheme
 - g. OP 3504, Emergency Communications
 - h. OP 3507, Emergency Radiation Exposure Control
 - i. OP 3508, On-Site Medical Emergency Procedure
 - j. OP 3509, Environmental Sample Collection During an Emergency
 - k. OP 3510, Off-Site and Site Boundary Monitoring
 - l. OP 3511, Off-Site Protective Action Recommendations
 - m. OP 3513, Evaluation of Off-Site Radiological Conditions
 - n. OP 3531, Emergency Call-in Method
 - o. OP 3540, Control Room Actions During an Emergency
 - p. OP 3541, Activation of the Technical Support Center (TSC)
 - q. OP 3542, Operation of the Technical Support Center (TSC)
 - r. OP 3544, Operation of the Operations Support Center (OSC)
 - s. OP 3545, Activation of the Emergency Operations Facility/Recovery Center (EOF/RC)
 - t. OP 3547, Security Actions During an Emergency
 - u. AP 6807, Collection, Temporary Storage and Retrieval of QA Records
 - v. PP 7019, Severe Accident Management Program

PRECAUTIONS/LIMITATIONS

1. Refer to OP 3504 for alternate methods of communication in the event that primary methods fail.

PROCEDURE

NOTE

With the exception of authorizing Protective Action Recommendations and classifications, actions required in each appendix may be assigned by the responsible individual to other personnel as appropriate. The designated individual, however, has the overall responsibility for the execution of the appendix.

1. Select the appropriate appendix:
 - a. Appendix A, Site Recovery Manager
 - b. Appendix B, Emergency Operations Facility Coordinator
 - c. Appendix C, Emergency Operations Center Coordinator Assistant
 - d. Appendix D, Personnel & Equipment Monitoring Team
 - e. Appendix E, Communications Assistant
 - f. Appendix F, Radiological Assistant
 - g. Appendix G, Manpower & Planning Assistant

NOTES

- Some spaces have multiple signature lines, based on event level. The step should be initialed for each event level it is completed for. If an event escalates, each step with that designator should be rechecked to ensure no further action is required.
- Steps may be performed concurrently or out of sequence.

2. Complete the appropriate appendix and record time and initials as required.

FINAL CONDITIONS

1. Return all completed Appendices and forms to the Emergency Plan Coordinator for filing per AP 6807.

APPENDIX A

SITE RECOVERY MANAGER (SRM)

SRM Name (print): _____

Date: _____

	<u>Time/Date</u>	<u>Initials</u>
1.0 Obtain overall status of emergency situation. Ensure that VYOPF 3546.01, "Plant Status Briefing Form" is filled out and is current. (INS8722-01)	A _____ / _____	_____
	S _____ / _____	_____
	G _____ / _____	_____

NOTES

- SS/PED retains responsibility for off-site States' notification (NAS-Orange Phone) until Site Recovery Manager assumes responsibility for implementation of VY Emergency Plan.
- TSC Coordinator or SS/PED (if applicable) retains responsibility for off-site NRC authorities' notification (FTS ENS Phone) unless Site Recovery Manager indicates otherwise.

2.0 Contact the TSC Coordinator or SS/PED (if applicable) when ready to assume overall responsibility for the implementation of the VY Emergency Plan. This includes the following primary responsibilities:

2.1. Escalation or de-escalation of the emergency.	A _____ / _____	_____
	S _____ / _____	_____
	G _____ / _____	_____
2.2. Notification of off-site States' authorities. (NAS-Orange Phone)	A _____ / _____	_____
	S _____ / _____	_____
	G _____ / _____	_____
2.3. Authorization and transmittal of off-site protective action recommendations.	A _____ / _____	_____
	S _____ / _____	_____
	G _____ / _____	_____

3.0 Assign EOF Coordinator:

Name: _____ / _____

APPENDIX A (Continued)

Time/Date

Initials

NOTE

Minimum Staffing for activation (see white board in SRM office area):

Site Recovery Manager
 EOF Coordinator
 EOF Coordinator Assistant
 Radiological Assistant
 Communication Assistant
 Manpower & Planning Assistant
 Personnel & Equipment Monitors

- | | | | |
|------|---|---|-------------------------|
| 4.0 | Inform the EOF Coordinator, the SS/PED. TSC Coordinator, and the States representatives that the EOF/RC is activated. | _____ / _____ | _____ |
| 5.0 | IF a GENERAL EMERGENCY, THEN implement OP 3511, Off-Site Protective Action Recommendations. | G _____ / _____ | _____ |
| 6.0 | If a release is in progress or expected, ensure that OP 3513, Evaluation of Off-Site Radiological Conditions, is implemented by the Radiological Assistant. | A _____ / _____
S _____ / _____
G _____ / _____ | _____

_____ |
| 7.0 | Act as the principal plant emergency response organization spokesperson in all interfacing with off-site authorities. | A _____ / _____
S _____ / _____
G _____ / _____ | _____

_____ |
| 8.0 | Act, or designate an individual, as the official point of contact for communications and information to the States. (SRM State Advisor) | A _____ / _____
S _____ / _____
G _____ / _____ | _____

_____ |
| 9.0 | Contact the PED to ensure that the States have called back to affirm receipt of initial notification, if not re-contact the States. (SRM State Advisor) | A _____ / _____
S _____ / _____
G _____ / _____ | _____

_____ |
| 10.0 | Ensure that the State representatives at the EOF are updated on the status of the emergency periodically. (SRM State Advisor) | | |
| 11.0 | Assess plant conditions as reported by the response organization and direct that all needed response efforts are addressed. | | |

APPENDIX A (Continued)

		<u>Time/Date</u>	<u>Initials</u>
12.0	Ensure that food and potable water control measures are in place at all emergency response centers as required. (Purchasing Coordinator)	<u> / </u>	<u> </u>
13.0	Ensure that manpower planning is being conducted to provide for response efforts over an extended period. (Manpower & Planning Asst.)	<u> / </u>	<u> </u>
14.0	Evaluate availability of personnel for States' EOCs if plant personnel are requested by States. (Manpower & Planning Asst.)	<u> / </u>	<u> </u>
15.0	Review and approve, or have designated alternate review and approve, periodic news releases prepared by the Nuclear Information Director or designated alternate prior to release.	<u> / </u>	<u> </u>
16.0	IF conditions warrant escalation to a more severe emergency class, THEN the Site Recovery Manager should, following discussion and concurrence with the TSC Coordinator and SS/PED, complete the following actions in the order identified below:	A <u> / </u> S <u> / </u>	<u> </u> <u> </u>
16.1.	If there is an escalation to a GENERAL EMERGENCY, implement OP 3511, Off-Site Protective Action Recommendations.	G <u> / </u>	<u> </u>
16.2.	Direct the SS/PED to make the appropriate plant announcement.	A <u> / </u> S <u> / </u>	<u> </u> <u> </u>
<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><u>NOTE</u></p> <p>States' notification must be initiated within 15 minutes of emergency classification declaration.</p> </div>			
16.3.	Ensure that the notification of the VT/NH/MA State EOCs is being implemented per VYOPF 3546.02, Emergency Classification and PAR Notification Form. (Compliance Advisor)	A <u> / </u> S <u> / </u> G <u> / </u>	<u> </u> <u> </u> <u> </u>
16.4.	If any State EOC is not manned, and the EOF/RC State representative is not present, notify the appropriate State Police agency per VYOPF 3546.02. (Compliance Advisor)	A <u> / </u> S <u> / </u> G <u> / </u>	<u> </u> <u> </u> <u> </u>

APPENDIX A (Continued)

	<u>Time/Date</u>	<u>Initials</u>
16.5. Inform each EOF/RC State representative of the transition on the emergency class and the condition producing the change. (SRM State Advisor)	A <u> / </u> S <u> / </u>	<u> </u> <u> </u>
16.6. After completion of the State's notification, SRM acknowledges that the States' notification has been completed.	A <u> / </u> S <u> / </u> G <u> / </u>	<u> </u> <u> </u> <u> </u>
17.0 IF the State of Vermont issues an evacuation order for Brattleboro, THEN contact the Nuclear Information Director and discuss impact on the News Media Center (NMC).	S <u> / </u> G <u> / </u>	<u> </u> <u> </u>
18.0 IF a decision is made to evacuate the NMC, THEN announce that, as a precautionary measure, all declared pregnant staff should evacuate the EOF. (E_Drill-98EOF3)	S <u> / </u> G <u> / </u>	<u> </u> <u> </u>
19.0 Update the TSC Coordinator and EOF/RC and NMC staffs of any protective actions the States may be implementing.		

FINAL CONDITIONS

1. IF the following criteria are satisfied, THEN De-escalation from an emergency phase to a recovery phase is warranted:		
a. Criticality controls are in effect.	<u> / </u>	<u> </u>
b. The core is being adequately cooled.	<u> / </u>	<u> </u>
c. The fission product release has been controlled.	<u> / </u>	<u> </u>
d. Control has been established over containment pressure and temperature.	<u> / </u>	<u> </u>
e. An adequate heat transfer path to an ultimate heat sink has been established.	<u> / </u>	<u> </u>
f. Reactor coolant system pressure is under control.	<u> / </u>	<u> </u>

APPENDIX A (Continued)

		<u>Time/Date</u>	<u>Initials</u>
g.	The States of Vermont, New Hampshire, and Massachusetts reach agreement with the Site Recovery Manager or designated alternate that there is no longer a need for either consideration of further public protective action or surveillance related to public protective action.	<u> / </u>	<u> </u>
2.	IF conditions warrant de-escalation to a recovery phase, THEN the Site Recovery Manager completed the following actions in the order identified below:		
a.	Review plant conditions with each State official stationed at the EOF/RC and recommend de-escalation.	<u> / </u>	<u> </u>
b.	Contact the respective State EOC via the Nuclear Alert System (NAS - Orange Phone) or land line. IF any State EOC is not manned, THEN notify the respective State Police Dispatcher via the NAS Orange Phone or land line and request a State Emergency Management official call the Site Recovery Manager via the NAS Orange Phone or land line as soon as possible.	<u> / </u>	<u> </u>
c.	After an agreement has been reached with the States, direct the SS/PED to make the appropriate plant announcement.	<u> / </u>	<u> </u>
3.	Notify the Nuclear Information Director, or designated alternate, de-escalation or termination of the event has occurred.	<u> / </u>	<u> </u>
4.	Devise a recovery plan applicable to the plant condition(s) following the termination of the emergency phase.	<u> / </u>	<u> </u>

APPENDIX A (Continued)

- | | | <u>Time/Date</u> | <u>Initials</u> |
|----|---|------------------|-----------------|
| 5. | Provide a verbal close-out of the event with off-site authorities and agencies as follows: | | |
| a. | NRC | _____ / _____ | _____ |
| b. | State of Vermont | _____ / _____ | _____ |
| c. | State of New Hampshire | _____ / _____ | _____ |
| d. | Commonwealth of Massachusetts | _____ / _____ | _____ |
| 6. | Initiate an Event Report per AP 0009 for the event that resulted in the declaration of the emergency. | _____ / _____ | _____ |

NOTE

Emergency Planning will sign off step 7.

- | | | | |
|----|--|---------------|-------|
| 7. | When a written report is generated, ensure a copy is forwarded to the Emergency Plan Coordinator for the following off-site authorities: | _____ / _____ | _____ |
| a. | Director of Vermont Emergency Management, State of VT | | |
| b. | Director of Massachusetts Emergency Management, Commonwealth of MA | | |
| c. | Director of New Hampshire Emergency Management, State of NH | | |

APPENDIX B

EMERGENCY OPERATIONS FACILITY COORDINATOR (EOFC)

EOF Coordinator Name (print): _____

Date: _____

Time/Date

Initials

NOTE

Coordination with the EOFC Assistant is required to determine which steps may have already been completed.

- | | | | |
|------|---|---|-------------------------|
| 1.0 | Initiate OP 3545. | _____ / _____ | _____ |
| 2.0 | Contact the Security Manager (if outside of normal hours), to ensure that arrangements are made to perform Fitness-For-Duty testing at the EOF. | _____ / _____ | _____ |
| 3.0 | Contact the Shift Supervisor/Plant Emergency Director (SS/PED), or TSC if staffed, and obtain specific information concerning the event. | A _____ / _____
S _____ / _____
G _____ / _____ | _____

_____ |
| 4.0 | Assess on-site and off-site radiological conditions associated with any accidental releases. (Reference OP 3509, 3510 and 3513) | S _____ / _____
G _____ / _____ | _____
_____ |
| 5.0 | Coordinate information on radiological assessments. | S _____ / _____
G _____ / _____ | _____
_____ |
| 6.0 | Act as liaison with the States' representatives until relieved by the SRM. | S _____ / _____
G _____ / _____ | _____
_____ |
| 7.0 | Document and coordinate offsite monitoring team activities. | S _____ / _____
G _____ / _____ | _____
_____ |
| 8.0 | Direct the call-in of off-duty personnel as required. Personnel are requested and assigned as per Tag Board Assignments. | S _____ / _____
G _____ / _____ | _____
_____ |
| 9.0 | Receive advice and direction from the Site Recovery Manager. | | |
| 10.0 | Ensure that radiological assessment (refer to OP 3544, Appendix A) is being performed as deemed appropriate by the Radiological Assistant. | A _____ / _____
S _____ / _____
G _____ / _____ | _____

_____ |

APPENDIX B (Continued)

		<u>Time/Date</u>	<u>Initials</u>
11.0	Obtain information concerning protective action recommendations from the Radiological Assistant.	G_____ / _____	_____
12.0	Provide information to the Site Recovery Manager concerning dose assessment results and protective action recommendations.	A_____ / _____ S_____ / _____ G_____ / _____	_____ _____ _____
13.0	Coordinate with the Radiological Assistant, the radiological assessment of off-site conditions, and the EOF State officials' requests for this information.	A_____ / _____ S_____ / _____ G_____ / _____	_____ _____ _____
14.0	Brief the EOF staff periodically on plant status conditions and changes (i.e., plant radiological conditions, meteorological information, emergency class changes, protective action recommendations, and state/local agencies protective measure decisions.	A_____ / _____ S_____ / _____ G_____ / _____	_____ _____ _____
15.0	Ensure that the status forms are being utilized to transmit emergency information.	A_____ / _____ S_____ / _____ G_____ / _____	_____ _____ _____
16.0	Periodically check with the Manpower and Planning Assistant to evaluate and discuss future manpower and logistics needs.	A_____ / _____ S_____ / _____ G_____ / _____	_____ _____ _____
17.0	Assist the Site Recovery Manager as requested.		
18.0	Review and approve periodic news releases prepared by the Director of Public Affairs or designated alternate, if assigned by the Site Recovery Manager.	_____ / _____	_____

FINAL CONDITIONS

1. Direct the responsible personnel to restore all emergency equipment to its normal readiness state. _____ / _____
2. Review and initial all Emergency Operations Facility logs to ensure completeness and accuracy. _____ / _____

APPENDIX C

EMERGENCY OPERATIONS FACILITY COORDINATOR'S ASSISTANT

EOF Coordinator's Assistant (Tag 1)

Name (print): _____

Date: _____

Time/Date

Initials

NOTE

Coordination with the EOF Coordinator is required to determine which steps may have already been completed.

- | | | | |
|------|--|-----|--|
| 1.0 | Direct the activation and staffing of the EOF until the arrival of the EOF Coordinator (SSCA No. 0422). | / | |
| 1.1. | Initiate OP 3545. | / | |
| 2.0 | Open EOF Coordinator's cabinet, remove clipboard and contact TSC or Control Room. | / | |
| 3.0 | Inform the TSC Coordinator, or in the absence of personnel in the TSC, inform the Plant Emergency Director (PED) of your presence and request the following: | A / | |
| | | S / | |
| | | G / | |
| 3.1. | Summary evaluation of plant conditions (take notes). | A / | |
| | | S / | |
| | | G / | |
| 3.2. | Type of release, if release is in progress or expected. | A / | |
| | | S / | |
| | | G / | |
| 3.3. | Directional variability of the wind (i.e., any indication of trending toward a new direction?). | A / | |
| | | S / | |
| | | G / | |
| 3.4. | Whether or not the PED needs assistance in notifying plant management personnel, or other on-site assistance. | A / | |
| | | S / | |
| | | G / | |

APPENDIX C (Continued)

		<u>Time/Date</u>	<u>Initials</u>
4.0	Upon arrival of the EOF Coordinator, advise the EOF Coordinator of the situation and its status and act as the assistant by keeping a log of significant events and other duties as requested.	<u> / </u>	<u> </u>
5.0	Be alert for any possible changes in meteorological conditions, especially wind direction and wind speed. If necessary, contact the TSC for meteorological conditions.	A <u> / </u> S <u> / </u> G <u> / </u>	<u> </u> <u> </u> <u> </u>

APPENDIX D

PERSONNEL & EQUIPMENT MONITORING TEAM

Personnel & Equipment Monitoring Team (Tags 2 & 3)

(2) Name (print): _____

Date: _____

(3) Name (print): _____

Date: _____

Time/Date

Initials

NOTE

If portable friskers were not at the EOF entrance upon arrival, monitor yourself first then all personnel on duty inside the EOF. Segregate for decontamination all individuals exceeding 2X background or 2000 net cpm. All monitoring should be done in a low background area. (<2000 cpm)

- 1.0 If portable friskers are not already positioned at the EOF entrance, obtain two portable friskers (RM 14/20) from the charging shelf in the emergency storage closet.

_____ / _____

- 1.1. Perform operational and source check.

_____ / _____

- 2.0 At the discretion of the EOF Coordinator and Radiological Assistant, establish a control point at the EOF entrance to monitor all personnel entering the EOF.

_____ / _____

- 3.0 At the discretion of the EOF Coordinator and Radiological Assistant, establish a control point at the entrance to the News Media Center (NMC) to monitor all personnel entering the NMC.

_____ / _____

- 4.0 Obtain the "Personnel Monitoring" clipboard and the Personnel and equipment Monitoring Log Book from the EOF Coordinator's cabinet.

_____ / _____

- 5.0 Check off name of each person monitored on the clipboard list. If name is not on the list, write name in the logbook.

_____ / _____

APPENDIX D (Continued)

		<u>Time/Date</u>	<u>Initials</u>
6.0	Immediately segregate all personnel arriving in protective clothing (PCs) and identify their vehicles, if applicable.	<u> / </u>	<u> </u>
6.1.	Survey PC-attired personnel and their vehicles with priority.	<u> / </u>	<u> </u>
6.2.	Note on the personnel list log or log sheets the name(s) and vehicle(s) exceeding 2x background or 2000 net cpm, whichever is less.	<u> / </u>	<u> </u>
6.3.	Hold for decontamination and release.	<u> / </u>	<u> </u>
7.0	Perform facial survey with a frisker (DO NOT attempt nasal smear or tissue "blow" samples) in order to identify potential for internal dose of individual.	<u> / </u>	<u> </u>
8.0	Report all significant or positive results to the EOF Coordinator and the Radiological Assistant.	<u> / </u>	<u> </u>
9.0	Log all results in the Personnel and Equipment Monitoring Logbook.	<u> / </u>	<u> </u>

APPENDIX E
COMMUNICATIONS ASSISTANT

Communications Assistant (Tag 4)

Name (print): _____

Date: _____

	<u>Time/Date</u>	<u>Initials</u>
1.0 Ensure phones are functional.	_____/____	_____
2.0 Obtain box of Three-Part Message and Reply forms from the EOF Coordinator's cabinet.	_____/____	_____
3.0 Assign available personnel to phones and radio and provide them with a supply of blank forms.	_____/____	_____

NOTE

Radio procedures are contained in OP 3504.

4.0 Establish radio communications with all on-site and off-site teams prior to their departure to assigned tasks.	_____/____	_____
5.0 Record the parties involved, date and time of each incoming or outgoing message by telephone or radio on a Three-Part Message and Reply Form.	_____/____	_____

APPENDIX F
RADIOLOGICAL ASSISTANT

Communications Assistant (Tag 4)

Name (print): _____

Date: _____

Time/Date

Initials

NOTE

Table 1 may be utilized as a manpower organizational guideline to the extent deemed practicable.

1.0 On the dispersion map, select the appropriate plume stability angle in accordance with reported meteorological conditions.

_____ / _____

2.0 IF the NRC requests an open, continuous Health Physics Network (HPN) communications channel, THEN ensure a technically competent individual is available to continuously maintain the HPN phone (LAI-801). Refer to OP 3504 to establish HPN channel.

_____ / _____

3.0 Assign personnel from Manpower and Planning Assistant to provide assistance in communications, dose assessment and board updates as required.

_____ / _____

4.0 Assign the Radiological Coordinator and direct the individual to perform the procedure outlined in OP 3525, Radiological Coordination.

_____ / _____

NOTE

All communications to the plant should go through the TSC, or, if the TSC is not staffed, through the Control Room.

5.0 Direct and evaluate the performance of dose projections as per the procedure outlined in OP 3513, Evaluation of Off-Site Radiological Conditions.

_____ / _____

6.0 Perform required steps in OP 3511, Off-Site Protective Action Recommendations.

_____ / _____

APPENDIX F (Continued)

		<u>Time/Date</u>	<u>Initials</u>
7.0	Assemble all available information relating to the radiological situation both on and off-site.	<u> / </u>	<u> </u>
8.0	Provide support to the Radiation Protection Coordinator or designated alternate at the TSC to ensure that on-site protective actions are being considered and carried out.	<u> / </u>	<u> </u>
9.0	Review exposure control measures and maintain and review exposure records with the Radiation Protection Coordinator or designated alternate at the TSC as appropriate.	<u> / </u>	<u> </u>
10.0	Organize the information and concisely state the latest radiological conditions on the status and mapboards.	<u> / </u>	<u> </u>
11.0	As new or additional information becomes available, update the boards.	<u> / </u>	<u> </u>
12.0	Keep the EOF Coordinator informed of pertinent changes, especially updates regarding protective action recommendations.	<u> / </u>	<u> </u>
13.0	Assist the EOF Coordinator as requested.	<u> / </u>	<u> </u>

APPENDIX G

MANPOWER AND PLANNING ASSISTANT

Manpower and Planning Assistant (Tag 6)

Name (print): _____

Date: _____

Time/Date

Initials

NOTE

The Manpower & Planning Clipboard contains the latest EAPL, organizational chart and phone list, as well as Fire Brigade and Medical Team lists.

- 1.0 Determine the nature of the emergency and approximate the extent of damage to the plant and equipment.

_____ / _____

- 2.0 Mobilize available manpower by listing plant personnel present and not otherwise assigned to emergency duties in the Emergency Response Organization assignment groups as presented in the Emergency Assistant Personnel List (EAPL).

_____ / _____

NOTE

A person may be listed in more than one assignment group in the EAPL.

- 3.0 Keep the personnel list current as personnel continue to arrive at the Emergency Operations Facility.

_____ / _____

- 4.0 Ensure that the general assembly area does not become overcrowded.

_____ / _____

- 4.1. IF an overflow of spare personnel occurs, THEN send them home to return for later duty or send them to an alternate assembly area in the EOF.

_____ / _____

- 4.2. Use VYOPF 3546.03 to provide those personnel being released with instructions on reporting responsibilities. (EPEX97TSC-2)

_____ / _____

- 5.0 As soon as practicable, reassign tag board duties to make available those specialties needed to best cope with the emergency situation.

_____ / _____

APPENDIX G (Continued)

		<u>Time/Date</u>	<u>Initials</u>
6.0	Prepare to assign specialized assistance teams as requested by the TSC Coordinator.	<u> / </u>	<u> </u>
7.0	Prepare lodging arrangements for Vermont Yankee emergency workers if their homes are in evacuated areas.	<u> / </u>	<u> </u>
8.0	Assist the EOF Coordinator by attempting to anticipate and provide for future manpower and logistics needs.	<u> / </u>	<u> </u>
9.0	Depending upon the anticipated duration of the emergency, prepare relief schedules and excuse those personnel not presently needed. Use VYOPF 3546.03 to provide those personnel being released with instructions on reporting responsibilities. (EPEX97TSC-2)	<u> / </u>	<u> </u>

PLANT STATUS BRIEFING FORM

Vermont Yankee Nuclear Power Station, Vernon, Vermont

☐ Actual Incident

☐ Drill/Exercise

Date: _____

Issue No.: _____

EVENT CLASSIFICATION:

Declared at: _____

Reason:

REACTOR STATUS:

Operating

Reducing Power

Shutdown at _____

Power Level: _____ %

Pressure: _____ psig

Drywell: _____ psig

PLANT SITUATION:

Stable

Improving

Degrading

RADIOACTIVE RELEASE:

None

Anticipated

In Progress

Time stack release started _____

Time ground release started _____

INJURIES/FATALITIES:

PROTECTIVE ACTION RECOMMENDATION:

NONE

SHELTER

EVACUATE

Towns Affected:

Basis:

METEOROLOGICAL:

Wind Speed

Upper _____ mph

Lower _____ mph

Wind Direction (FROM)

Upper _____ deg

Lower _____ deg

Delta T

Upper _____ degF

Lower _____ degF

Stability Class

Upper _____

Lower _____

OTHER:

Approved _____

SRM Initials

Time Presented _____

Initials _____

EMERGENCY CLASSIFICATION AND PAR NOTIFICATION FORM

VYOPF 3546.02 INSTRUCTIONS

STATES NOTIFICATION MUST BE INITIATED WITHIN 15 MINUTES OF DECLARATION.

1. Prepare message (Section 1). If a Protective Action Recommendation is part of the message, refer to VYOPF 3511.01 for affected towns.
2. Prior to notifications, get approval of contents of message by getting appropriate signature (Section 2).
3. Contact States by using appropriate contact number(s) listed below.

NOTE

If NAS - Orange Phone is non-functional, utilize commercial back-up capability.

4. Record initial State contact times (Section 3).
5. After transmittal of message, record name of State contact (Section 4)
6. After all States notifications are completed, inform authorizing individual.

CONTACT NUMBERS		
	CONTROL ROOM	EOF/RC
NAS - ORANGE PHONE GROUP CALL	VT/NH/MA STATE POLICE 111	VT/NH/MA STATE EOC'S 333
NAS INDIVIDUAL STATION CALL	VT STATE POLICE 213	VT STATE EOC 314
	NH STATE POLICE 212	NH STATE EOC 311
	MA STATE POLICE 210	MA STATE EOC 313
COMMERCIAL TELEPHONE BACKUP	VT STATE POLICE 802-244-8727	VT STATE EOC 802-244-8721
	NH STATE POLICE 603-271-3636	NH STATE EOC 603-271-2231
	MA STATE POLICE 413-586-3166	MA STATE EOC 508-820-2000

EMERGENCY CLASSIFICATION AND PAR NOTIFICATION FORM (Continued)

1. MESSAGE

This is (Name: _____), (Title: _____)
from the Vermont Yankee Nuclear Power Station in Vernon, Vermont. Please do not interrupt until the entire message is completed.

a. We have declared a: (Check one)

- ☐ Unusual Event Terminated
☐ Unusual Event
☐ Alert
☐ Site Area Emergency
☐ General Emergency

at _____ hours due to (indicate the initiating conditions per AP 3125): _____

AP 3125 EAL alpha-numeric designator _____

b. The Plant is: (Check one)

- ☐ continuing normal operation
☐ reducing present power levels
☐ shut down

c. A release: (Check one)

- ☐ is anticipated
☐ is in progress
☐ is not expected to occur

d. Present Meteorological conditions:

Wind speed is _____ mph
 Wind directions is from _____ degrees.

e. At the present time, we recommend the following protective actions:

- ☐ None ☐ As Follows

State	Town	Shelter	Evac
VT	Brattleboro	<input type="checkbox"/>	<input type="checkbox"/>
	Dummerston	<input type="checkbox"/>	<input type="checkbox"/>
	Guilford	<input type="checkbox"/>	<input type="checkbox"/>
	Halifax	<input type="checkbox"/>	<input type="checkbox"/>
	Vernon	<input type="checkbox"/>	<input type="checkbox"/>
NH	Chesterfield	<input type="checkbox"/>	<input type="checkbox"/>
	Hinsdale	<input type="checkbox"/>	<input type="checkbox"/>
	Richmond	<input type="checkbox"/>	<input type="checkbox"/>
	Swansey	<input type="checkbox"/>	<input type="checkbox"/>
	Winchester	<input type="checkbox"/>	<input type="checkbox"/>
MA	Bernardston	<input type="checkbox"/>	<input type="checkbox"/>
	Colrain	<input type="checkbox"/>	<input type="checkbox"/>
	Gill	<input type="checkbox"/>	<input type="checkbox"/>
	Greenfield	<input type="checkbox"/>	<input type="checkbox"/>
	Leyden	<input type="checkbox"/>	<input type="checkbox"/>
	Northfield	<input type="checkbox"/>	<input type="checkbox"/>
	Warwick	<input type="checkbox"/>	<input type="checkbox"/>

f. Follow your State procedures for the designated Classification

2. AUTHORIZATION

Authorized by (Print and Sign): _____
 (Circle one: PED / TSCC / SRM) Time: _____ Date: _____

3. INITIAL NOTIFICATION TIMES (NOTE: INITIATE NOTIFICATION WITHIN 15 MINUTES OF DECLARATION)

Time notification initiated: VT _____ NH _____ MA _____

4. MESSAGE ACKNOWLEDGEMENTS

Receipt by: VT _____ NH _____ MA _____
 Name/Time Name/Time Name/Time

REMARKS

INSTRUCTIONS TO PERSONNEL
PRIOR TO BEING RELEASED FROM THE ASSEMBLY AREA

Provide the following information to all ERO members prior to their release from the assembly area:

1. Go home and await further instructions.

NOTE

Do not call unless it is necessary.

2. If you must be away from your telephone, call (802) 257-5271 for staffing instructions.
3. If you need information on shift status, call (802) 257-5271.
4. If you live in the EPZ and are evacuated, call (802) 257-5271 for further instructions. Accommodations will be provided to you for the duration of the emergency, or if you are going to some place other than instructed, identify how you can be reached.
5. Personnel assigned to the second shift of the facility marked below, report to the EOF at hours. Call Manpower and Planning (802-257-5271) prior to reporting to receive updated information.

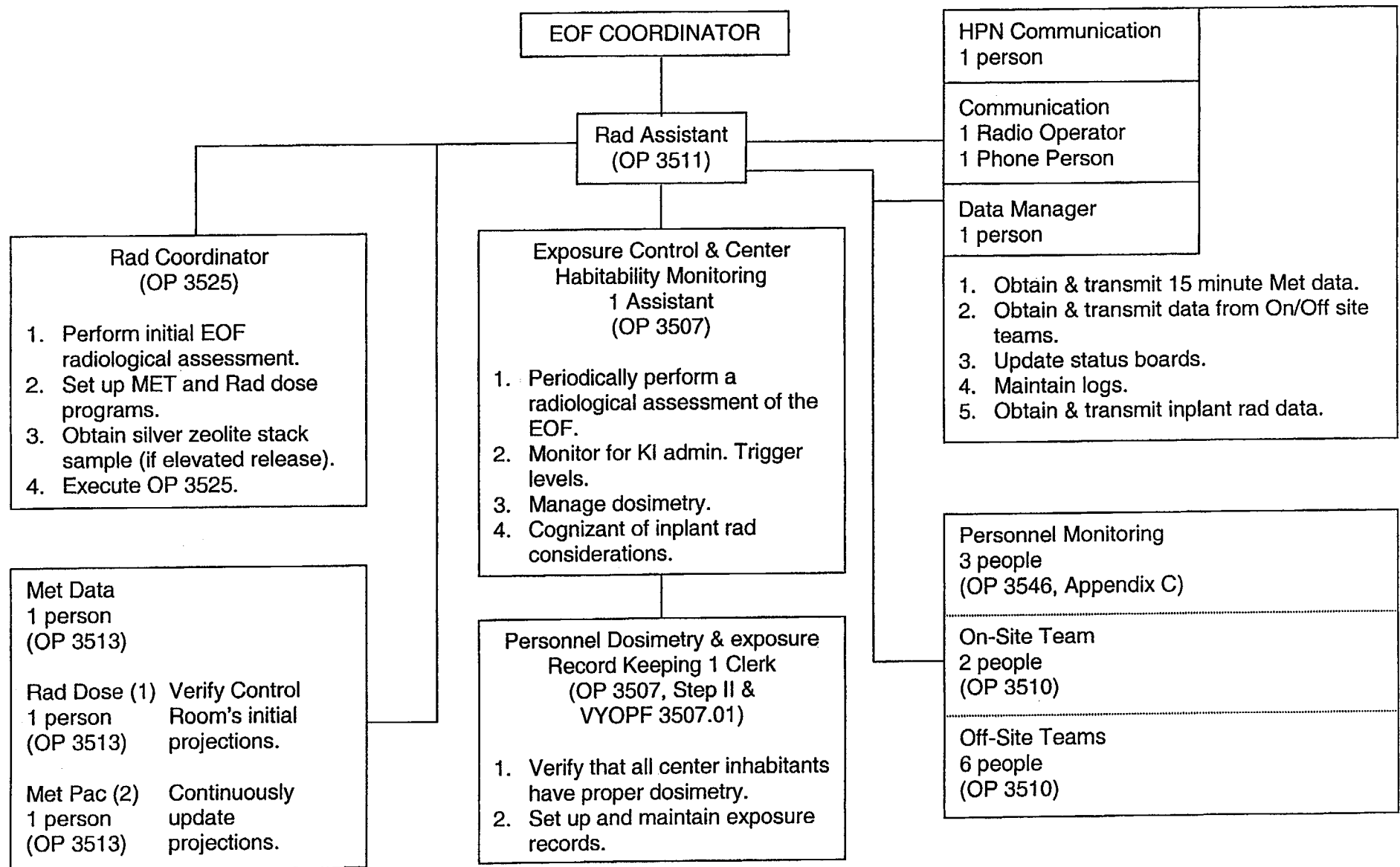
CAUTION

**Personnel reporting after the onset of an Alert, Site Area
Emergency, or General Emergency must report to the EOF prior to
assuming their assignment at the plant.**

- | | |
|--|--|
| <input type="checkbox"/> Control Room | <input type="checkbox"/> Technical Support Center |
| <input type="checkbox"/> Operations Support Center | <input type="checkbox"/> Emergency Operations Facility |
| <input type="checkbox"/> News Media Center | |

6. Follow any further instructions when called by the Manpower and Planning Assistant.

TABLE 1
RADIOLOGICAL ASSISTANT'S ORGANIZATION



VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3547

ORIGINAL

SECURITY ACTIONS DURING AN EMERGENCY

USE CLASSIFICATION: **REFERENCE**

LPC No.	Effective Date	Affected Pages

Implementation Statement: N/A

Issue Date: 08/07/01

TABLE OF CONTENTS

PURPOSE	3
DISCUSSION	3
ATTACHMENTS	4
REFERENCES AND COMMITMENTS	4
PRECAUTIONS/LIMITATIONS	5
PROCEDURE	6
1.0 Immediate Actions	6
2.0 Subsequent Actions:	7
FINAL CONDITIONS	8

PURPOSE

To outline the actions required by Security personnel when an emergency is declared.

DISCUSSION

There are four emergency classifications, Unusual Event, Alert, Site Area Emergency, and General Emergency. The decision to make an immediate initial declaration rests with the Shift Supervisor/Plant Emergency Director, who, in turn, instructs Control Room personnel to activate the notification system. Notification of State authorities must be initiated within 15 minutes after the event has been classified. The NRC must be notified immediately after the States' notification, but not later than one (1) hour after the event has been classified.

An Unusual Event is defined as any plant-related event which indicates a potential degradation of plant safety margins which is not likely to affect personnel on-site or the public off-site or result in radioactive releases requiring off-site monitoring. Unusual Event conditions will not have caused serious damage to the plant and may not require a change in operation status.

The basic shift complement is able to deal with Unusual Event conditions. On-duty personnel are assigned to functions as required. Additional members of the plant organization, including top management, are notified by Plant Security, and augment on-duty personnel as necessary. The Duty On Call Officer who is available on an on-call basis must report to the site and will assume the role of the TSC Coordinator. Dissemination of public information and closure or escalation to a more severe classification will occur as conditions warrant.

An Alert event is defined as an indication of a substantial degradation of plant safety margins which could affect on-site personnel safety, could require off-site impact assessment, but is not likely to require off-site protective action.

An Alert event requires action beyond the normal capability of the basic shift complement. Plant response and off-site notification associated with this event classification ensure that sufficient emergency response personnel are mobilized to activate the Technical Support Center and the Operations Support Center. The Emergency Operations Facility/Recovery Center is activated with the Site Recovery Manager, the EOF Coordinator and other EOF/RC staff members. Sufficient emergency assistance personnel to assess off-site radiological impact are assigned if the Alert event is producing releases off-site. Actual releases of radioactivity which substantially exceed Technical Specification limits may be involved and thus radiation monitoring and dose projection may be an integral portion of the emergency response required. Prompt notification is made to State authorities and follow-up information is provided as needed to off-site emergency organizations.

A Site Area Emergency indicates an event which involves likely or actual major failures of plant functions needed for the protection of the public. The possibility does exist for some releases of radioactive material and response to this event emphasizes the ability to monitor the releases and to provide action recommendations to State authorities and follow-up information as needed to off-site emergency organizations.

Plant resources are anticipated to be sufficient to cope with a Site Area Emergency. Outside resources, however, are mobilized and selected members are dispatched to the site. All emergency centers are activated following declaration of a Site Area Emergency. All non-essential personnel are evacuated from the site. Representatives from adjoining States are dispatched to the Emergency Operations Facility. Assessment of plant conditions and off-site radiological parameters determine the type of protective measures necessary for protection of the public sector. The public is notified of the event by local media facilities and periodic updates of information are released to ensure uniform, adequate response to real conditions.

A General Emergency is declared when substantial core degradation or melting has occurred, with a potential for loss of containment integrity. The possibility does exist for releases of radioactive material and response to this event emphasizes the ability to monitor the releases and to provide for protective action recommendations to State authorities.

Contracted service organizations, sponsor utilities, and other industry resources are alerted and requested to render assistance as appropriate. In addition, Federal resources are called upon for assistance. Assessment of plant conditions and off-site radiological parameters determine the type of protective action recommendations.

Plant representatives closeout or escalate the emergency classification, or move to recovery as conditions warrant. Written summaries of the event are provided to off-site authorities and other affected agencies.

The Security Shift Supervisor (SSS) is responsible for initiating this procedure following an emergency classification announcement. If an evacuation is called for, the SSS will ensure personnel accountability in accordance with OP 3524.

ATTACHMENTS

1. None

REFERENCES AND COMMITMENTS

1. Technical Specifications and Site Documents
 - a. Vermont Yankee Nuclear Power Station Emergency Plan
2. Codes, Standards and Regulations
 - a. None
3. Commitments
 - a. None

4. Supplemental References

- a. AP 0009, Event Reports
- b. AP 0010, Situational Reporting Requirements
- c. AP 0021, Work Orders
- d. AP 0156, Notification of Significant Events
- e. AP 0864, Fitness for Duty
- f. AP 3125, Emergency Plan Classification and Action Level Scheme
- g. OP 3504, Emergency Communications
- h. OP 3507, Emergency Radiation Exposure Control
- i. OP 3524, Emergency Actions to Ensure Initial Accountability and Security Response
- j. OP 3531, Emergency Call-in Method
- k. OP 3540, Control Room actions During an Emergency
- l. OP 3541, Activation of the Technical Support Center (TSC)
- m. OP 3542, Operation of the Technical Support Center (TSC)
- n. OP 3544, Operation of the Operations Support Center (OSC)
- o. OP 3545, Activation of the Emergency Operations Facility/Recovery Center EOF/RC
- p. OP 3546, Operation of the Emergency Operations Facility/Recovery Center EOF/RC
- q. AP 6807, Collection, Temporary Storage and Retrieval of QA Records

PRECAUTIONS/LIMITATIONS

- 1. Refer to OP 3504 for alternate methods of communication in the event that primary methods fail.

PROCEDURE

NOTES

- The responsible individual may assign actions required to other personnel as appropriate. The designated individual, however, has the overall responsibility for the execution of the checklist.
- Record time and initials as required.
- Steps may be performed concurrently or out of sequence.
- Some steps have multiple signature lines, based on event level. The step should be initialed for each event level it is completed for. If an event escalates, each step with that event level designator should be re-checked to ensure no further action is required.

Security Shift Supv. Name (print): _____

Date: _____

	<u>Time/Date</u>	<u>Initials</u>
1.0 Immediate Actions		
1.1 Implement OP 3531, Emergency Call-in Method.	U _____ / _____ A _____ / _____ S _____ / _____ G _____ / _____	_____ _____ _____ _____
1.2 Supplement security staffing and request outside Law Enforcement, Fire Department, and Medical assistance as necessary or as requested by the Operations Shift Supervisor/Plant Emergency Director.	U _____ / _____ A _____ / _____ S _____ / _____ G _____ / _____	_____ _____ _____ _____
1.3 If deemed necessary, at ALERT or higher, ensure Security has been assigned for contractor and visitor control at Gate 1 and GHH.	A _____ / _____ S _____ / _____ G _____ / _____	_____ _____ _____
1.4 At ALERT and higher, ensure accountability of personnel has been completed in accordance with OP 3524.	A _____ / _____ S _____ / _____ G _____ / _____	_____ _____ _____

Time/Date

Initials

- 1.5. Notify the Wilder Station by dialing 9-1-802-291-8000 and, when a member of the watch staff answer the phone, state the following:

"This is Vermont Yankee Nuclear Power Station in Vernon, Vermont. We have a(n) _____.
I repeat, this is Vermont Yankee Nuclear Power Station in Vernon, Vermont. We have a(n) _____.
Please acknowledge with your name."

Name of Watch Staff Member

U ____ / ____

A ____ / ____

S ____ / ____

G ____ / ____

- 1.6. Post the appropriate emergency classification sign in an obvious location on the front of the Gate II desk.

U ____ / ____

A ____ / ____

S ____ / ____

G ____ / ____

- 1.7. IF ALERT, or higher, THEN arrange for Fitness-For-Duty Collection Site Staff to be available at the EOF and the Plant.

A ____ / ____

S ____ / ____

G ____ / ____

2.0 Subsequent Actions:

NOTE

If the switchboard is staffed, ensure the operator is aware of transferring calls.

- 2.1. Route phone calls from State officials to the Site Recovery Manager at the EOF/RC or TSC Coordinator at the TSC (if EOF/RC is not staffed) or Control Room (if TSC is not staffed).

U ____ / ____

A ____ / ____

S ____ / ____

G ____ / ____

- 2.2. Ensure the Switchboard Operator has the necessary information on the emergency classification.

	<u>Time/Date</u>	<u>Initials</u>
U	____ / ____	_____
A	____ / ____	_____
S	____ / ____	_____
G	____ / ____	_____

FINAL CONDITIONS

1. Return completed procedure to the Emergency Plan Coordinator for filing in accordance with AP 6807.

LPC's

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3508

REVISION 22

ON-SITE MEDICAL EMERGENCY PROCEDURE

USE CLASSIFICATION: **REFERENCE**

LPC No.	Effective Date	Affected Pages
1	03/08/01	5 & 6 of 10
2	08/07/01	2 & 7 of 10

Implementation Statement: N/A

Issue Date: 04/03/00

REFERENCES

1. Technical Specifications
 - a. None
2. Administrative Limits
 - a. None
3. Other
 - a. Special Project Report No. 0008, "Gross Beta/Gamma Instrument Conversion Factors", dated 1/30/88 (VYDPF 0530.02)
 - b. Massachusetts Nuclear Incident Advisory Team Handbook
 - c. AP 0021, Work Orders
 - d. AP 0156, Notification of Significant Events
 - e. RP 0520, Personnel Skin Dose Assessment
 - f. AP 0529, Cancelled 3/15/96
 - g. DP 0530, Radiation Protection Data and Information Logging
 - h. OP 3506, Emergency Equipment Readiness Check
 - i. OP 3507, Emergency Radiation Exposure Control
 - j. OP 3524, Emergency Actions to Ensure Initial Accountability and Security Response
 - k. OP 3540, Control Room Actions During an Emergency
 - l. OP 3541, Activation of the Technical Support Center
 - m. OP 3542, Operation of the Technical Support Center
 - n. OP 3544, Operation of the Operations Support Center
 - o. OP 3545, Activation of the Emergency Operations Facility/Recovery Center
 - p. OP 3546, Operation of the Emergency Operations Facility/Recovery Center
 - q. OP 3547, Security Actions During an Emergency
 - r. OP 4530, Dose Rate Radiation Surveys
 - s. RP 4532, Personnel Monitoring When Exiting Restricted Areas
 - t. AP 6807, Collection, Temporary Storage and Retrieval of QA Records

ILPC 2

LPC 2

PREREQUISITES

1. Medical Response Team members or Security personnel shall notify the Control Room, or the Technical Support Center (TSC), if activated, prior to the Medical Response Team entering and departing from any emergency area.

DEFINITIONS

1. Minor Injury or Illness - Any situation where the patient(s) does not need urgent treatment or attention and is not physically or mentally impaired. Examples include small abrasions, lacerations, punctures, minor headaches due to tension, and slivers. Initiation of this procedure is not warranted for minor injuries or illnesses.
2. Major Injury or Illness - Any situation where the patient(s) needs immediate attention by medically trained individuals. Examples include any bleeding, breathing difficulties, chest pain, possible fractures, confusion, disorientation, or other major injuries. This procedure shall be initiated immediately.

- f. Assist in the final survey and cleanup of the treatment area and return all contaminated equipment and wastes to Vermont Yankee.
5. Security personnel shall:
- a. dispatch an officer to the emergency area with a two-way radio upon notification of the Medical Emergency,
 - b. provide first aid if no medical team member is present,
 - c. notify the SSS upon determination that the Medical Response Team has requested Rescue Inc. to provide assistance or transportation to the hospital.

NOTE

The ambulance crew and vehicle need not be searched prior to entering the Protected Area during a medical emergency.

- d. expedite access of ambulance personnel to the emergency area by assigning an officer as an escort to the crew and issuing dosimetry and visitors badges to the ambulance crew,
 - e. via their two-way radio, Security or a Medical Response Team member may update the Control Room regarding the patient's status and vital signs,
 - f. prior to the patient's departure from the plant site, Security will remove the patient's dosimetry and Protected Area badge.
6. Control Room personnel shall:
- a. record all pertinent information forwarded to the Control Room by the Medical Response Team or Security in the Control Room Log and on VYOPF 3508.01,
 - b. upon notification by Medical Response Team members or Security that transportation off-site of the accident patient is required:
 - 1) Notify RESCUE, INC. (911) to request transportation of the injured to Brattleboro Memorial Hospital or Franklin Medical Center. Rescue, Inc. should be made aware of whether or not the person to be transported is contaminated. Vermont Yankee's 911 address is 546 Governor Hunt Road, Vernon, Vermont.

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3511

REVISION 11

OFF-SITE PROTECTIVE ACTION RECOMMENDATIONS

USE CLASSIFICATION: **REFERENCE**

LPC No.	Effective Date	Affected Pages
1	10/05/00	Cover Page, 1, 2, 4 & 5 of 8; VYOPF 3511.01 Pg 1 of 1; Table 3 Pg 1 of 1; Figure 1 Pg 1 of 1
2	01/12/01	Cover Page, 1, 2, 4 & 7 of 8; VYOPF 3511.01 Pg 1 of 1
3	08/07/01	3, 4 & 7 of 8

Implementation Statement: OP 3511 Rev. 11 is approved for continued use with a new Review Date of 01/27/02.

Issue Date: 01/27/98

OP 3511 Rev. 11
Cover Page
LPC #2

- I7
LPC3
- b. EPA 400-R-92-001, "Manual of Protective Action Guides and Protective Actions for Nuclear Accidents.", October 1991
 - c. USNRC IE Notice 83-28, "Criteria for Protective Action Recommendations for General Emergencies", May 4, 1983
 - d. Vermont Yankee Nuclear Power Station Emergency Plan
 - e. YAEC Memorandum J.G. Parillo to S.R. Miller, "Monitor Indications for Failed Fuel", dated 6/27/95, REG 110/95
 - f. AP 3125, Emergency Plan Classification and Action Level Scheme
 - g. OP 3504, Emergency Communications
 - h. OP 3513, Evaluation of Off-Site Radiological Conditions
 - i. OP 3540, Control Room Actions During an Emergency
 - j. OP 3542, Operation of the Technical Support Center
 - k. OP 3544, Operation of the Operations Support Center
 - l. OP 3546, Operation of the Emergency Operations Facility/Recovery Center
 - m. OP 3547, Security Actions During an Emergency
 - n. AP 6807, Collection, Temporary Storage and Retrieval of QA Records

PRECAUTIONS

1. Emphasize to States' representatives that no compensation in the recommendation is made for the time to implement and complete protective actions.
2. An immediate Protective Action Recommendation based on General Emergency classification level must be implemented as delineated in Section I of this procedure.
3. A Protective Action Recommendation is reviewed against protective action actually implemented prior to re-issuing an updated recommendation.
4. If possible and if time permits, confer with the appropriate State and Federal authorities to ensure that questions on protective actions to be applied are answered prior to formal recommendation.

PROCEDURE

NOTES

If a Protective Action Recommendation (shelter or evacuation) is warranted, ensure that a General Emergency has been declared, consistent with AP 3125.

A Protective Action Recommendation is approved by the senior manager in charge of emergency activities at the time the recommendation is made. This person reviews and approves the recommendation, then transmits it to the states.

I. Protective Action Recommendation Based on Plant Conditions

- A. Immediate actions by the senior manager in charge or designated alternate (General Emergency Declared)

NOTES

- Initial notification of the General Emergency based on plant conditions, with determined Protective Action Recommendation, must be initiated to state authorities within 15 minutes.
- Initial notification of the General Emergency based on plant conditions, with determined Protective Action Recommendation, should not be delayed due to performing dose projections or awaiting their results.
- Two individuals should be assigned to formulate the PAR independently to ensure accuracy.

1. Use Figure 1 and Table 3 (ER2000-1363) to determine the appropriate Protective Action Recommendation (PAR) based on plant conditions.
 - a. If the actual or potential release pathway is a stack release, use the upper wind direction.
 - b. If the actual or potential release pathway is a ground release, use the lower wind direction.
 - c. If the actual or potential release pathway is a multiple release (stack and ground), use both the upper and lower wind direction.
2. If available, a second individual should independently verify the PAR. The verification may be performed by the individual who is approving the PAR (PED, TSC Coordinator, or Site Recovery Manager).

NOTE

Any prior protective action recommendations that are still in effect shall be included with updated information and documentation (VYOPF 3511.01).

3. Record appropriate PAR information in Section I of VYOPF 3511.01.
4. Review PAR with the Site Recovery Manager or senior manager in charge to obtain approval.
5. Transmit approved PAR to State authorities as delineated in OP 3540 (PED or TSC Coord.) (use VYOPF 3540.06) or OP 3546 (Site Recovery Manager) (use VYOPF 3546.02).
6. Forward completed VYOPF 3511.01 to the Site Recovery Manager or senior manager in charge.

- 2) If ODPS shows that the PAR (evacuation) is exceeded between five and ten miles, then use TABLE 4 and appropriate meteorological data (wind direction and stability class) to obtain affected towns out to ten miles downwind.
- 3) If ODPS shows that the PAR (evacuation) is exceeded between the site boundary and five miles, then use TABLE 5 and appropriate meteorological data (wind direction and stability class) to obtain affected towns out to five miles downwind.
- 4) If METPAC is used, towns affected by the PAR are determined by using one or more of the following:
 - a) METPAC Plume Plot
 - b) METPAC PAG Report
 - c) METPAC Tracking Report
 - d) Field Monitoring Results
 - e) Table 4
 - f) Table 5

NOTE

Any prior protective action recommendations that are still in effect should be included with updated information and documentation (VYOPF 3511.01).

- c. Record appropriate PAR information in Section II of VYOPF 3511.01

3. Forward completed VYOPF 3511.01 to the Site Recovery Manager or senior manager in charge.
4. Review the PARs with the Site Recovery Manager or senior manager in charge to obtain approval.
5. Transmit approved PARs to State authorities as delineated in OP 3540 (PED or TSC Coord.). (Use VYOPF 3504.06) or OP 3546 (Site Recovery Manager) (use VYOPF 3546.02)

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3524

REVISION 17

**EMERGENCY ACTIONS TO ENSURE INITIAL ACCOUNTABILITY
AND SECURITY RESPONSE**

USE CLASSIFICATION: **REFERENCE**

LPC No.	Effective Date	Affected Pages
1	08/07/01	4 & 6 of 16

Implementation Statement: N/A

Issue Date: 02/01/01

4. Supplemental References

- a. OP 3510, Off-Site and Site Boundary Monitoring
- b. OP 3540, Control Room Actions During an Emergency
- c. OP 3541, Activation of the Technical Support Center
- d. OP 3542, Operation of the Technical Support Center
- e. OP 3544, Operation of the Operations Support Center
- f. OP 3545, Activation of the Emergency Operations Facility/Recovery Center
- g. OP 3546, Operation of the Emergency Operations Facility/Recovery Center
- h. OP 3547, Security Actions During an Emergency
- i. AP 6807, Collection, Temporary Storage and Retrieval of QA Records

DEFINITIONS

1. Normal Hours: Periods of time when sufficient personnel are on-site to activate the Technical Support Center (TSC) within a short period of time.
2. Off-Normal Hours: Periods of time when personnel needed to activate the TSC will be responding from off-site.

PROCEDURE

I. Personnel Evacuation in the Event of an Alert

On notification of an Alert condition by alarm or verbal report, the following actions shall be taken to ensure personnel (including contractors and visitors) site evacuation:

A. Plant emergency response personnel shall:

1. without delay, proceed to the plant Administration Building and report, as required, to the TSC or OSC,
2. upon arrival, promptly check in using VYOPF 3524.02 where indicated,
3. take actions as required by their duty assignment.

NOTE

Plant workers and contractors should hang their Dositec (if any) along with their TLD on the dosimetry rack in Gatehouse 2. Visitors should turn in Dositecs (if any), clipped together with their visitor's badge and TLD, to the Access Control Officer (ACO) or as directed.

B. All personnel assigned to the EOF shall:

1. without delay, proceed to Gatehouse 2 and leave the Protected Area (PA) as normal,
2. travel to the EOF and, upon arrival, promptly check in at the front desk of the Training Center.

NOTE

The ACO shall contact the TSC to ascertain the status of the VYOPF 3524.02 forms (check-in sheets) if they are not delivered following the evacuation of personnel.

2. The TSC Coordinator shall designate Accountability Coordinators to:
- a. ensure all personnel reporting to the TSC and OSC check in on VYOPF 3524.02,
 - b. promptly deliver completed VYOPF 3524.02 forms to the ACO at Gatehouse 2,
 - c. activate accountability posts to monitor all personnel entering/exiting the emergency response facilities located in the Administration Building, using VYOPF 3542.01.
3. The ACO shall:
- a. assign an individual to read off the gatehouse slot number and name, in that order, from the VYOPF 3524.02's, the OCA badge rack and the Visitor's Log, if applicable,
 - b. check off the corresponding gatehouse slot number and name on the On-Site computer report,
 - c. when complete, verify that badges assigned to those personnel not checked-off on the On-Site computer report are not in the badge and OCA rack, or in the deposit slots,

NOTE

Should an individual incorrectly note their slot number or a printed name is illegible, a cross-reference may be obtained using the current Employee Card Key Inventory List maintained at the ACO's desk.

- d. list personnel not checked off on the On-Site computer report as unaccounted for on VYOPF 3524.01,
- e. report the status of the accountability process to the TSC and the name(s) of any unaccounted for personnel, within 30 minutes of the announcement of the emergency classification,

VERMONT YANKEE NUCLEAR POWER STATION

ADMINISTRATIVE PROCEDURE

AP 3532

REVISION 10

EMERGENCY PREPAREDNESS ORGANIZATION

USE CLASSIFICATION: **INFORMATION**

LPC No.	Effective Date	Affected Pages
1	08/07/01	9 & 10 of 10

Implementation Statement: N/A

Issue Date: 12/20/00

4.8 Emergency Plan Liaison

The Emergency Plan Liaison is responsible for the development and coordination of off-site emergency planning activities. The Emergency Plan Liaison coordinates VY efforts in support of state and local emergency response organizations. Additionally, the Emergency Plan Liaison is responsible for the development and maintenance of the Vermont Yankee Emergency public information program, and the dissemination of public information on emergency preparedness.

Specifically, the Emergency Plan Liaison is responsible for the following:

4.8.1 Training of Non-VY Personnel: Coordinate training of State and/or Local government agencies per request of State, and the Vernon fire department and other Southwestern Fire Mutual Aid District fire departments within the VY 10 mile EPZ.

5.0 REFERENCES AND COMMITMENTS

5.1 Technical Specifications and Site Documents

5.1.1 VY Emergency Plan

5.2 Codes, Standards, and Regulations

5.2.1 NUREG 0654, Criteria for Preparation and Evaluation of Radiological Emergency Response and Preparedness in Support of Nuclear Power Plants

5.2.2 Code of Federal Regulations (10 CFR 50.47 and 10 CFR 50 Appendix E)

5.3 Commitments

5.3.1 INS9324EXT1

5.3.2 UND93054EXT3

5.4 Supplemental References

5.4.1 Public Affairs Department Guideline No. 4, "News Media Center Implementation"

5.4.2 AP 0028, Commitment Tracking

5.4.3 AP 0095, Plant Procedures

5.4.4 AP 3125, Emergency Plan Classification and Action Level Scheme

5.4.5 OP 3504, Emergency Communications

5.4.6 OP 3505, Emergency Preparedness Exercises and Drills

5.4.7 OP 3506, Emergency Equipment Readiness Check

5.4.8 OP 3507, Emergency Radiation Exposure Control

5.4.9 OP 3508, On-Site Medical Emergency Procedure

5.4.10 OP 3509, Environmental Sample Collection During an Emergency

5.4.11 OP 3510, Off-Site and Site Boundary Monitoring

5.4.12 OP 3511, Off-Site Protective Action Recommendations

5.4.13 OP 3513, Evaluation of Off-Site Radiological Conditions

ILPC
1

- 5.4.14 OP 3524, Emergency Actions to Ensure Initial Accountability and Security Response
- 5.4.15 OP 3525, Radiological Coordination
- 5.4.16 OP 3531, Emergency Call-In Method
- 5.4.17 OP 3533, Post Accident Sampling of Reactor Coolant
- 5.4.18 OP 3534, Post Accident Sampling of Plant Stack Gaseous Releases
- 5.4.19 OP 3535, Post Accident Sampling and Analysis of Primary Containment
- 5.4.20 OP 3536, In-Plant Air Sample Analysis with Abnormal Conditions
- 5.4.21 OP 3540, Control Room Actions During an Emergency
- 5.4.22 OP 3541, Activation of the Technical Support Center
- 5.4.23 OP 3542, Operation of the Technical Support Center
- 5.4.24 OP 3544, Operation of the Operations Support Center
- 5.4.25 OP 3545, Activation of the Emergency Operations Facility/Recovery Center
- 5.4.26 OP 3546, Operation of the Emergency Operations Facility/Recovery Center
- 5.4.27 OP 3547, Security Actions During an Emergency
- 5.4.28 OP 3712, Emergency Plan Training
- 5.4.29 AP 6807, Collection, Temporary Storage and Retrieval of QA Records

6.0 RECORDS RETENTION

- 6.1 Retain VYAPF 3532.01 in accordance with AP 6807.

7.0 ATTACHMENTS

- 7.1 VYAPF 3532.01 10 CFR 50.54(q) Evaluation Checklist