

MAY 3, 1983

IMPLEMENTING PROCEDURES TO THE VY EMERGENCY PLAN

Change #18

- INSTRUCTIONS -

1. Under the tab "TABLE OF CONTENTS" remove the existing table of contents and replace it with the attached dated April 15, 1983.
2. Under the tab "CONTACT LIST" remove the existing list and replace it with the attached list dated April 15, 1983. (If applicable).
3. Under the tab "UNUSUAL EVENTS" incorporate DI #83-8 to O.P. 3500.
4. Under the tab "ALERT" incorporate DI #83-12 to O.P. 3501.
5. Under the tab "SITE AREA EMERGENCY" incorporate DI #83-13 to O.P. 3502.
6. Under the tab "GENERAL EMERGENCY" incorporate DI #83-14 to O.P. 3503.
7. Under the tab "COORDINATION AND COMMUNICATIONS" incorporate DI #83-7 to O.P. 3504.

VERMONT YANKEE EMERGENCY PLAN
IMPLEMENTING PROCEDURES

TABLE OF CONTENTS

April 15, 1983

Contact List

April 1, 1983

Implementing Procedures:

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Alert	O.P. 3501	Rev. 3 -
Site Area Emergency	O.P. 3502	Rev. 15
General Emergency	O.P. 3503	Rev. 16
Evaluation of Off-Site Radiological Conditions	O.P. 3513	Rev. 7
Off-Site and Site Boundary Monitoring	O.P. 3510	Rev. 11
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Emergency Radiation Exposure Control	O.P. 3507	Rev. 13
On-Site Medical Emergency Procedure	O.P. 3508	Rev. 11
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Emergency Plan Training	O.P. 3712	Rev. 7
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Emergency Equipment Readiness Check	O.P. 3506	Rev. 15
Emergency Communications	O.P. 3504	Rev. 15

MEMORANDUM

TO Plant Procedure Manual Holders Vernon
COMPANY OR LOCATION

FROM B. N. Leach Vernon
COMPANY OR LOCATION

SUBJECT Change to Plant Procedure Manual

February 25, 1983

FILE 6.1.5Chem & HPDEPARTMENT INSTRUCTION83-8Concurring Individual: *[Signature]* Date: 2/25/83SRO Concurring: *[Signature]* Date: 3/2/83Second SRO Concurring: *[Signature]* Date: 3-2-83

Chemistry and Health Physics Supervisor or Plant Health Physicist:

[Signature] Date: 3/2/83

This instruction becomes effective on the date that a Second Senior Licensed Operator signs above, unless a Health Physics procedure is involved, in which case this instruction becomes effective on the date that a Senior Licensed Operator and the Chemistry and Health Physics Supervisor or the Plant Health Physicist signs above.

Instruction Cancelled: Rev. 3 of OP 3500

Scope of Instruction: Replace page 1 and Appendices I, II and III with attached.

- page 1 & 2

Reason for Change: To clarify procedure.

SPS/cjm

Reviewed *[Signature]* 3/5/83 Approved *[Signature]* 3/7/83
 PORC Secretary Plant Manager

A.P. 0832, Figure 1
 Rev. 7

Dept. Supv.	<u>J. J. J.</u>	Proc. No.	<u>O.P. 3500</u>
PORC	<u>W. J. J.</u>	Rev. No.	<u>2</u>
Plant Mgr.	<u>W. J. J.</u>	Issue Date	<u>12/31/81</u>
Mgr. of Ops.	<u>W. J. J.</u>	Review Date	<u>12/31/84</u>

DI 33-8

UNUSUAL EVENT

Purpose:

To outline the actions required of plant personnel, visitors, and contractors when an Unusual Event is declared.

Discussion:

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. Additional plant personnel will be notified of the event by Plant Security. They may be requested to respond to the plant by Plant Security at the discretion of the Shift Supervisor/Plant Emergency Director. The TSC Coordinator and EOF Coordinator must report to the site at the Unusual Event level.

*

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 should occur no later than 15 minutes after the event has been classified. On-duty personnel are assigned to functions as required. Notification is made to off-site authorities as delineated. Additional members of the plant organization including top management, are notified and augment on-duty personnel as necessary. Public information via established mechanisms and closeout or escalation to a more severe classification will occur as appropriate.

References:

A. Tech Specs.

1. None

B. Admin. Limits

1. None

C. Other

1. Vermont Yankee Emergency Plan

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Precautions:

1. Refer to O.P. 3504, Emergency Communications, for alternate methods of communication in the event that primary methods fail.

UNUSUAL EVENT - SHIFT SUPERVISOR/PLANT EMERGENCY DIRECTOR

Date: _____

Immediate Actions:

Time/Initials

1. Conditions have been assessed and the applicable Emergency Operating Procedure is utilized.
- * 2. An Unusual Event has been declared because (indicate the condition per A.P. 3125 below): _____ / _____
3. Determine immediate personnel response to be taken and enter information in Step 4.c below.
4. Turn the Page System Volume Increase Switch to the "Alert" position, turn the Alarm Switch to the "ON" position for ten seconds, and then announce the following over the Plant Paging System:
 - a. "Unusual Event, Unusual Event, Unusual Event"
 - b. There is (what) in/at (where)
 - c. The following personnel _____ (as determined in Step 3) report to _____ (where). All other personnel stay clear of the area" _____ / _____
- * 5. Request the Shift Engineer to report to the Control Room and provide assistance. _____ / _____
6. a. Notify the New Hampshire, Massachusetts, and Vermont State Police Agencies by depressing number 111 on the Nuclear Alert System orange phone (or utilizing the telephone back-up) and making the following announcement upon establishing communications (pick one):

<u>either:</u> (For events terminated prior to classifying) <ol style="list-style-type: none"> 1. "This is Vermont Yankee Nuclear Power Station, in Vernon, VT." 2. "We have had an emergency condition which was terminated prior to classifying." 3. "I repeat, this is Vermont Yankee Nuclear Power Station in Vernon Vermont. Please acknowledge with your name and state agency." 	<u>or:</u> (In progress, not terminated) <ol style="list-style-type: none"> 1. "This is Vermont Yankee Nuclear Power Station, in Vernon, VT" 2. "We have declared an Unusual Event because (indicate the initiating condition per A.P. 3125 as written in Step 2 above)," 3. "The plant is (pick one): <ol style="list-style-type: none"> a. continuing normal operation b. reducing present power level c. shutdown."
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APPENDIX I (Continued)

Time/Initials

* VT _____ / _____
 Name of Dispatcher Time
 * NH _____ / _____
 Name of Dispatcher Time
 * MASS _____ / _____
 Name of Dispatcher Time

4. "A release (pick one):
 a) is anticipated,
 b) is in progress, or
 c) is not expected."
 5. "Present meteorological conditions indicate (provide wind speed and direction from [degrees])."
 6. "At the present time we recommend no protective action."
 7. "I repeat, this is Vermont Yankee Nuclear Power Station in Vernon, Vermont. Please acknowledge with you name and state agency."

VT _____ / _____
 Name of Dispatcher Time
 NH _____ / _____
 Name of Dispatcher Time
 MASS _____ / _____
 Name of Dispatchers Timer

6. b. Expect calls from State Health and/or C.D. Officials concerning plant conditions.
 7. Notify the Security Shift Supervisor to activate the telephone paging system. Advise him, at this time, of the paged individuals required to report to the plant site. (This step must be performed.) _____/
 8. Notify the NRC on the NRC Emergency Notification System red phone. Maintain an open, continuous communications channel on this line until relieved by TSC Staff or until continuous communications are no longer necessary. _____/
 9. When contacted by the Emergency Operations Facility Coordinator, advise him of classification and event conditions. _____/
 10. Direct activities of emergency response personnel until overall responsibility is assumed by the Technical Support Center Coordinator.
 11. Request assistance of outside agencies (fire, law enforcement, or medical rescue personnel and related equipment) as needed to deal with the event.

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UNUSUAL EVENT - SECURITY SHIFT SUPERVISOR

Date: _____

Immediate Actions:TimeInitials

1. When requested by the Shift Supervisor/Plant Emergency Director, notify the plant personnel using the automatic telephone paging system. Refer to the Emergency Call-In Method for specific actions.
2. Request outside Law Enforcement as necessary or as requested by the Operations Shift Supervisor/Plant Emergency Director.
3. Notify the New England Power Hydro Station in Vernon, Vermont by dialing 254-4388 and, when a member of the watch staff answers the phone, state the following:

"This is Vermont Yankee Nuclear Power Station in Vernon, Vermont. We have an Unusual Event. I repeat, this is Vermont Yankee Nuclear Power Station in Vernon, Vermont. We have an Unusual Event. Please acknowledge with your name."

Name of Watch Staff Member

Subsequent Actions:

1. Advise other individuals, as they call in, of the emergency classification.

Name of caller

- * 2. Route phone calls from State Officials to the appropriate C.R. personnel when received.

* Name of Caller

Title/Agency

APPENDIX III

UNUSUAL EVENT - TECHNICAL SUPPORT CENTER COORDINATOR

Date: _____

Time/Initials _____

Immediate and Subsequent Actions:

1. Contact SS/PED to obtain specific information concerning the event.
2. Assume the overall responsibility for direction of activities of the emergency response personnel from the Shift Supervisor/Plant Emergency Director in a timely manner.

Final Conditions:

1. Escalate the emergency classification as conditions warrant.

NOTE: Activation of the TSC is optional at this level of emergency class. The decision for activation rests with the TSC Coordinator. Activation of the TSC and the EOF constitutes an ALERT per A.P. 3125.

2. De-escalation from an emergency phase to a recovery phase will require satisfying the following criteria:

- a. Criticality controls are in effect;
- b. The core is being adequately cooled;
- c. The fission product release has been controlled;
- d. Control has been established over containment pressure and temperature;
- e. An adequate heat transfer path to an ultimate heat sink has been established;
- f. Reactor coolant system pressure is under control; and/or

- g. Unusual Event conditions (from A.P. 3125) have been terminated;

- h. The States of Vermont, New Hampshire and Massachusetts reach agreement with the TSC Coordinator or his designee that there is no longer a need for either consideration of further public protective action or surveillance related to public protective action.

NOTE: 1. If initial classification was based upon an event terminated prior to classifying, no mutual agreement with the states is needed prior to termination of the emergency.

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APPENDIX III (Continued)

Time/Date

2. For ongoing emergencies where de-escalation or termination of the emergency class is indicated and the States Emergency Operations Centers (EOC's) have been activated, contact the State's EOC's via Nuclear Alert System (orange phone) or land line, and "reach agreement" with the state official in charge at the respective States EOC.

The following Bell Telephone numbers should be used:

Vermont EOC
New Hampshire EOC
Massachusetts EOC

3. For ongoing emergencies where de-escalation or termination of the emergency class is indicated and the States EOC's have not yet been activated (because of personnel in transit to their EOC's) contact the respective state police dispatcher for each state, using the Nuclear Alert System number or the land line number provided in O.P. 3504, Emergency Communications and request the State Police Dispatchers to advise one of the following persons from each state to contact plant site as soon as possible.

VERMONT

Paul Philbrook, Commissioner
Vt. Dept. of Public Safety and Civil Defense Director

George Lowe, Deputy Director Civil Defense

Ray McCandless, Director of Vermont Department of Occupational and Radiological Health

NEW HAMPSHIRE

Richard Strome, Director of New Hampshire Civil Defense

James Saggiotis, Deputy Director of New Hampshire Civil Defense

MASSACHUSETTS

John Lovering, Deputy Director of Massachusetts Civil Defense

Robert Boulay, Director of Massachusetts Area IV Civil Defense

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When the above criteria are satisfied, then proceed with Step 3. below.

APPENDIX III (Continued)

Time/Initials

3. Provide verbal closeout of the event with off-site authorities and agencies as follows:

- a. Nuclear Regulatory Commission
- b. State of Vermont
- c. State of New Hampshire
- d. State of Massachusetts

_____/_____
 _____/_____
 _____/_____
 _____/_____

NOTE: In the event of an emergency condition terminated prior to classifying, this verbal closeout may be accomplished when the States representatives call in for initial information.

4. a. Initiate a written report if required by A.P. 0010, or A.P. 0012.

_____/_____

- b. If a written report is required, advise the three states that a written report will follow.

_____/_____

5. Provide four (4) copies of the written report, if required, to the following off-site authorities:

- a. Commissioner of Public Safety - State of VT
- b. Director of Civil Defense - State of MASS
- c. Director of Civil Defense - State of NH

_____/_____
 _____/_____
 _____/_____

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MEMORANDUM

Plant Procedure Manual Holders Vernon
COMPANY OR LOCATION
 FROM B. N. Leach Vernon
COMPANY OR LOCATION
 SUBJECT Change to Plant Procedure Manual

February 25, 1983

FILE 6.1.5

Chem & HP

DEPARTMENT INSTRUCTION 83-12Concurring Individual: [Signature] Date: 2/25/83SRO Concurring: [Signature] Date: 3/2/83Second SRO Concurring: [Signature] Date: 3-2-83

Chemistry and Health Physics Supervisor or Plant Health Physicist:

[Signature] Date: 3/2/83

This instruction becomes effective on the date that a Second Senior Licensed Operator signs above, unless a Health Physics procedure is involved, in which case this instruction becomes effective on the date that a Senior Licensed Operator and the Chemistry and Health Physics Supervisor or the Plant Health Physicist signs above.

Instruction Cancelled: Rev. 4 of QP 3501

Scope of Instruction: ^{pgs. 1 & 2} Replace Appendices I, II and Pages 1 & 3 of Appendix V and Pages 2 & 3 of Appendix VIII with attached.

Reason for Change: To clarify procedure.

SPS/cjm

Reviewed [Signature] 3/5/83 Approved [Signature] 3/7/83
 PORC Secretary Plant Manager

ALERT - SHIFT SUPERVISOR/PLANT EMERGENCY DIRECTOR

Date: _____

Immediate Actions:

Time Initials

1. Conditions have been assessed and the applicable Emergency Operating Procedure is utilized.
- * 2. An Alert has been declared because (indicate the condition per A.P. 3125 below): _____

3. Determine the immediate personnel response to be taken.
4. Turn the Page System Volume Increase Switch to the "Alert" position, turn the Alarm Switch to the "ON" position for ten seconds, and then announce the following over the plant paging system:
 - a. "Alert, Alert, Alert"
 - b. "There is (what) in/at (where)."
 - c. "Emergency personnel report to the Technical Support Center, the Operations Support Center, and the Emergency Operations Facility as required. All other personnel and contractors return to your department area and await further instructions. All visitors return to Governor Hunt House Information Center. All personnel stay clear of the affected area."
- * 5. Request that the Shift Engineer report to the Control Room and provide assistance. _____
6. a. Notify the New Hampshire, Massachusetts, and Vermont State Police Agencies by depressing number 111 on the Nuclear Alert System orange phone (or utilizing telephone backup) and making the following announcement upon establishing communications:
 - 1) "This is Vermont Yankee Nuclear Power Station in Vernon, VT";
 - 2) "We have declared an Alert because (indicate the initiating condition per A.P. 3125 from Step 2 above)",
 - 3) The plant is (pick one)
 - a) continuing normal operation,
 - b) reducing present power levels, or
 - c) shutdown";

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TimeInitial

- 4) "A release (pick one)
- a) is anticipated,
 - b) is in progress, or
 - c) is not expected to occur",
- 5) "Present meteorological conditions indicate (provide wind speed and direction from [degrees])";
- 6) "At the present time we recommend no protective action";
- 7) "I repeat, this is Vermont Yankee Nuclear Power Station in Vernon, Vermont. Please acknowledge with your name and agency."

Vermont _____ / _____
 Name of Dispatcher Time

N.H. _____ / _____
 Name of Dispatcher Time

Mass. _____ / _____
 Name of Dispatcher Time

- b. Expect calls from state officials concerning plant conditions.

NOTE: Subsequent notifications to state and federal officials concerning escalation or reduction of emergency class will be made by the Site Recovery Manager or his designee. However, if the EOF/RC has not been activated and conditions indicate that escalation to a Site Area or General Emergency is necessary, then the TS/PED shall proceed with the notification and response steps outlined in O.P. 3502, Site Area Emergency or O.P. 3503, General Emergency.

7. Notify the Security Shift Supervisor to activate the telephone paging system for plant personnel and Yankee NSD personnel. _____
8. Notify the NRC on the NRC Emergency Notification System red phone. Maintain an open, continuous communications channel on the line until relieved by the TSC Staff. _____
9. When contacted by the Emergency Operations Facility Coordinator advise him of the classification and event conditions. _____

ALERT - SECURITY SHIFT SUPERVISOR

Date: _____

Time InitialsImmediate Actions:

1. Upon hearing the announcement of the Alert, notify the plant personnel using the automatic telephone paging system. Refer to the Emergency Call-In Method for specific actions.
2. Notify Yankee Nuclear Services Division Security (Microwave or phone extension) and give the following message:

"This is Vermont Yankee. We have an Alert. Standby for Yankee Staff calls." (Repeat this message and request acknowledgement) _____
3. Notify Yankee Nuclear Services Division personnel:
 - a. Dial the following number:
 - b. The ZIP-CALL operator will answer.
 - c. Ask for pager to be activated.
 - d. Repeat Steps a, b, and c approximately 15 minutes after the initial call to assure that all YNSD personnel have been reached. _____
4. Request outside Law Enforcement as necessary or as requested by the Operations Shift Supervisor/Plant Emergency Director. _____
5. Request a habitability check of the Security Gate II as soon as personnel become available, according to Appendix VI of this procedure. _____
6. Notify the New England Power Hydro Station in Vernon, Vermont by dialing _____ and, when a member of the watch staff answers the phone, state the following:

"This Vermont Yankee Nuclear Power Station in Vernon, Vermont. We have an Alert. I repeat, this is Vermont Yankee Nuclear Power Station in Vernon, Vermont. We have an Alert. Please acknowledge with your name."

Name of Watch Staff Member _____

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7. Ensure that an accountability of personnel has been completed as per D.P. 0906, Emergency Procedures, and O.P. 3524, Emergency Actions to Ensure Accountability and Security Response.

Subsequent Actions:

1. Advise other individuals, as they call in of the emergency classification.

Name of Caller

Time

Initials

2. Route phone calls from State Officials to the SRM or in his absence to the appropriate C.R. personnel when received.

* Name of Caller Title / Agency

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APPENDIX V

ASSIGNMENT TAG BOARD

Tag No.(1) EOF Coordinator's Assistant

1. Open EOF Coordinator's kit, remove clipboard, and contact TSC or Control Room. Inform the Tech. Support Coordinator, or in the absence of personnel in the Tech. Support Center, inform Plant Emergency Director of your presence and request the following:
 - a. Summary evaluation of plant conditions.
(Take notes)
 - b. Type of release (and appropriate meteorological data):
(one of the following)
 - 1) Elevated (stack only) release -
"Upper" delta t (Δt)
Wind speed
Wind direction
 - 2) Ground (including combination stack and other release paths) release -
"Lower" delta t (Δt)
Wind speed
Wind direction
 - c. Directional stability of the wind (i.e., any indication of trending toward new direction?).
 - d. Whether or not the Plant Emergency Director needs assistance in notifying plant management personnel, or other on-site assistance.
2. Determine habitability of the EOF using Appendix VI. If this facility is not habitable (criteria in O.P. 3507, Table II), then initiate actions described in O.P. 3514, Activation at the Alternate Emergency Operations Facility/Recovery Center.
3. Take charge of the Emergency Operations Facility until arrival of the EOF Coordinator. Test additional phones, check radio and gai-tronics, etc.

*
*
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APPENDIX V (Continued)

Tag No.

- (4)(5) Cont. 7. The second member of team will, with priority, survey the exterior (including tires) of any emergency vehicle leaving the site. Log the results.
8. Report all significant or positive results to the EOF Coordinator or the Radiological Assistant. Log all results in the Personnel and Equipment Monitoring Log-book.

(6) Communications Assistant

1. Insure phones are functional.
2. Obtain box of Message Forms (O.P. 3504, Figure 2) from the EOF Coordinator's kit.
- * 3. Assign available personnel to phones and radio and provide them with a supply of blank forms.
4. Establish radio communications with all on-site and off-site teams prior to their departure from the outer gatehouse if practicable.

NOTE: Utilize radio procedures contained in O.P. 3504.

5. Record the parties involved, date and time of each incoming or outgoing message by telephone, Gai-tronics or radio on a Message Form.
6. On incoming calls, forward copies 1 and 3 to the EOF Coordinator or his appropriate assistant.

NOTE: Retain copy 2 (yellow) as a "tickler" for those messages requiring a reply.

7. When copy 1 is returned for dispatching a reply, discard copy 2 and note date and time the reply message was dispatched.
8. Retain completed copy 1 as a log record of all communications.

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	<u>Time</u>	<u>Initials</u>
b. Reach agreement concerning implementation of the de-escalation process; then	_____	_____
c. Notify the State Police using the message format stated in 6.a of Appendix I to O.P. 3500; and then	_____	_____
d. Direct the SS/PED to make the appropriate plant announcement.	_____	_____

Final Conditions:

1. De-escalation from an emergency phase to a recovery phase will require satisfying the following criteria:
 - a. Criticality controls are in effect;
 - b. The core is being adequately cooled;
 - c. The fission product release has been controlled;
 - d. Control has been established over containment pressure and temperature;
 - e. An adequate heat transfer path to an ultimate heat sink has been established;
 - * f. Reactor coolant system pressure is under control;
 - * g. Alert conditions (from A.P. 3125) have been terminated and/or;
 - * h. The States of Vermont, New Hampshire, and Massachusetts reach agreement with the Site Recovery Manager or his designee that there is no longer a need for either consideration of further public protective action or surveillance related to public protective action.

NOTE:

1. For ongoing emergencies where de-escalation or termination of the emergency class is indicated and the States Emergency Operations Centers (EOC's) have been activated, contact the State's EOC's via Nuclear Alert System (orange phone) or land line, and "reach agreement" with the state official in charge at the respective State's EOC.

The following Bell Telephone numbers should be used;

Vermont EOC
New Hampshire EOC
Massachusetts EOC

2. For ongoing emergencies where de-escalation or termination of the emergency class is indicated and the State's EOCs have not yet been activated (because of personnel in transit to their EOC's), contact the respective state police dispatcher for each state, using the Nuclear Alert

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TimeInitials

System number or the land line number provided in O.P. 3504, Emergency Communications, and request the State Police Dispatchers to advise one of the following persons from each state to contact plant site as soon as possible.

VERMONT

Paul Philbrook, Commissioner
Vt. Dept. of Public Safety and Civil Defense Director

George Lowe, Deputy Director Civil Defense

Ray McCandless, Director of Vermont Department of Occupational and Radiological Health

NEW HAMPSHIRE

Richard Strome, Director of New Hampshire Civil Defense

James Saggiotis, Deputy Director of New Hampshire Civil Defense

MASSACHUSETTS

John Lovering, Deputy Director of Massachusetts Civil Defense

Robert Boulay, Director of Massachusetts Area IV Civil Defense

When the above criteria are satisfied, then proceed with Step 2. below.

2. 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. State of Massachusetts

3. a. Initiate a written report if required by A.P. 0010 or A.P. 0012.
- b. If a written report is required, advise the three states that a written report will follow.

4. Provide four (4) copies of the written report, if required by NRC, to the following off-site authorities:

- a. Commissioner of Public Safety - State of VT
- b. Director of Civil Defense - State of MASS
- c. Director of Civil Defense - State of NH

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Withhold Attachment
From Public Disclosure

MEMORANDUM

TO Plant Procedure Manual Holders Vernon
COMPANY OR LOCATION
FROM B.N. Leach Vernon
COMPANY OR LOCATION
SUBJECT Change to Plant Procedure Manual

February 25, 1983

FILE 6.1.5Chem & HPDEPARTMENT INSTRUCTION 83-13Concurring Individual: *W. L. Lister* Date: 2/25/83SRO Concurring: *R. J. Klark* Date: 2/2/83Second SRO Concurring: *James Edelhausen* Date: 3-2-83

Chemistry and Health Physics Supervisor or Plant Health Physicist:

Date: _____

This instruction becomes effective on the date that a Second Senior Licensed Operator signs above, unless a Health Physics procedure is involved, in which case this instruction becomes effective on the date that a Senior Licensed Operator and the Chemistry and Health Physics Supervisor or the Plant Health Physicist signs above.

Instruction Cancelled: Rev. 16 of OP 3502

Scope of Instruction: Replace pages 1 and 2 of Appendix I, page 2 of Appendix II, pages 1 and 3 of Appendix V and pages 2 and 3 of Appendix VIII with attached.

Reason for Change: To clarify procedure.

SPS/cjm

Reviewed *R. J. Kennedy* 3/5/83 Approved *W. L. Lister* 3/7/83
PORC Secretary Plant Manager

SITE AREA - SHIFT SUPERVISOR/PLANT EMERGENCY DIRECTOR

Date: _____

Time _____ Initials _____

Immediate Actions:

1. Conditions have been assessed and the applicable Emergency Operating Procedures are utilized.

*

If a release is in progress, refer to A.P. 3513, "Evaluation of Radiological Conditions."

2. A Site Area Emergency has been declared because (indicate the condition per A.P. 3125 below):

3. Determine the immediate personnel response to be taken.

4. Turn the Page System Volume Increase Switch to the "Evacuation" position, turn the Alarm Switch to the "ON" position for fifteen seconds, and then announce the following over the Plant Paging System:

- a. "Site Area Emergency, Site Area Emergency, Site Area Emergency"
- b. "There is (what) in/at (where)."
- c. "Emergency response personnel report to the Technical Support Center, the Operations Support Center, and the Emergency Operations Facility as required. All other personnel, visitors, and contractors report to the Governor Hunt House Information Center"

*

5. Notify the Shift Engineer to report to the Control Room and provide assistance.

6. a. Notify the New Hampshire, Massachusetts, and Vermont State Police Agencies by depressing number 111 on the Nuclear Alert System orange phone (or utilizing telephone backup) and making the following announcement upon establishing communications:

- 1) "This is Vermont Yankee Nuclear Power Station in Vernon, VT";
- 2) "We have declared a Site Area Emergency because (indicate the initiating condition per A.P. 3125 from Step 2 above)";
- 3) "The plant is (pick one)
 - a) continuing normal operation,
 - b) reducing present power levels, or
 - c) shutdown";

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TimeInitial

- 4) "A release (pick one)
- a) is anticipated,
b) is in progress, or
c) is not expected to occur";
- 5) "Present meteorological conditions indicate
(provide wind speed and direction from [degrees])";
- 6) "At the present time we recommend no protective
action",
- 7) "I repeat, this is Vermont Yankee Nuclear Power
Station in Vernon, Vermont. Please acknowledge
with your name and agency."

*

Vermont _____ / _____
Name of Dispatcher Time

*

N.H. _____ / _____
Name of Dispatcher Time

*

Mass. _____ / _____
Name of Dispatcher Time

*

- b. Expect calls from state officials concerning
plant conditions.

NOTE: Subsequent notifications to state and
federal officials concerning escalation
or reduction of emergency class will be
made by the Site Recovery Manager or his
designee, however, if the EOF/RC has not
been activated and conditions indicate
that escalation to a General Emergency is
necessary then the SS/PED shall proceed
with the notification and response steps
outlined in O.P. 3503, General Emergency.

7. Notify the Security Shift Supervisor to activate
the telephone paging system for plant personnel and
Yankee NSD personnel. _____
8. Notify the NRC on the NRC Emergency Notification System
red phone. Maintain an open, continuous communications
channel on this line until relieved by the TSC Staff. _____
9. When contacted by the Emergency Operations Facility
Coordinator, advise him of the classification and
emergency conditions. _____

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TimeInitials

Subsequent Actions:

1. Advise other individuals, as they call in, of the emergency classification.

Name of Caller

_____	_____
_____	_____
_____	_____
_____	_____

2. Route phone calls from State Officials to the SRM or in his absence to the appropriate C.R. personnel when received.

_____	_____
-------	-------

*

Name of CallerTitle/Agency

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ASSIGNMENT TAG BOARD

Tag No.(1) EOF Coordinator's Assistant

1. Open EOF Coordinator's kit, remove clipboard, and contact TSC or Control Room. Inform the Tech. Support Coordinator, or in the absence of personnel in the Tech. Support Center, inform Plant Emergency Director of your presence and request the following:
 - a. Summary evaluation of plant conditions. (Take notes)
 - b. Type of release (and appropriate meteorological data):
(one of the following)
 - 1) Elevated (stack only) release -
"Upper" delta t (Δt)
Wind speed
Wind direction
 - 2) Ground (including combination stack and other release paths) release -
"Lower" delta t (Δt)
Wind speed
Wind direction
 - c. Directional stability of the wind (i.e., any indication of trending toward new direction?).
 - d. Whether or not the plant Emergency Director needs assistance in notifying plant management personnel, or other on-site assistance.
2. Determine habitability of the EOF using Appendix VI. If this facility is not habitable (criteria in O.P. 3507, Table II), then initiate actions described in O.P. 3514, Activation of the Alternate Emergency Operations Facility/Recovery Center.
3. Take charge of the Emergency Operations Facility until arrival of the EOF Coordinator. Test additional phones, check radio and gaitronics, etc.

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APPENDIX V (Continued)

Tag No.

(4)(5) 7. The second member of team will, with priority, survey the
Cont. exterior (including tires) of any emergency vehicle leaving
the site. Log the results.

8. Report all significant or positive results to the EOF
Coordinator or the Radiological Assistant. Log all
results in the Personnel and Equipment Monitoring Log-
book.

(6) Communications Assistant

1. Insure phones are functional.

2. Obtain box of Message Forms (O.P. 3504, Figure 2) from
the EOF Coordinator's kit.

* 3. Assign available personnel to phones and radio and provide them
with a supply of blank forms.

4. Establish radio communications with all onsite and offsite
teams prior to their departure from the outer gatehouse, if
practicable.

NOTE: Utilize radio procedures contained in O.P. 3504.

5. Record the parties involved, date and time of each incoming
or outgoing message by telephone, Gaitronics or radio on a
Message Form.

6. On incoming calls, forward copies 1 and 3 to the EOF
Coordinator or his appropriate assistant.

NOTE: Retain copy 2 (yellow) as a "tickler" for those
messages requiring a reply.

7. When copy 1 is returned for dispatching a reply, discard
copy 2 and note date and time the reply message was dispatched.

8. Retain completed copy 1 as a log record of all communications.

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APPENDIX VIII (CONTINUED)

	<u>Time</u>	<u>Initials</u>
b. Reach agreement concerning implementation of the de-escalation process; then	_____	_____
c. Notify the State Police using the message format stated in 6.a of Appendix I to O.P. 3500 or O.P. 3501; and then	_____	_____
d. Direct the SS/PED to make the appropriate plant announcement.	_____	_____

Final Conditions:

1. De-escalation from an emergency phase to a recovery phase will require satisfying the following criteria:
 - a. Criticality controls are in effect;
 - b. The core is being adequately cooled;
 - c. The fission product release has been controlled;
 - d. Control has been established over containment pressure and temperature;
 - e. An adequate heat transfer path to an ultimate heat sink has been established;
 - f. Reactor coolant system pressure is under control;
 - * g. Site Area Emergency conditions (from A.P. 3125) have been terminated; and/or
 - * h. The States of Vermont, New Hampshire and Massachusetts reach agreement with the Site Recovery Manager or his designee that there is no longer a need for either consideration of further public protective action or surveillance related to public protective action.

NOTE:

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1. For ongoing emergencies where de-escalation or termination of the emergency class is indicated and the State's Emergency Operations Centers (EOC's) have been activated, contact the State's EOC's via Nuclear Alert System (orange phone) or land line, and "reach agreement" with the state official in charge at the respective State's EOC.

The following Bell Telephone numbers should be used:

Vermont EOC
New Hampshire EOC
Massachusetts EOC

2. For ongoing emergencies where de-escalation or termination of the emergency class is indicated and the State's EOC's have not yet been activated (because of personnel in

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Time Initials

transit to their EOC's, contact the respective State Police Dispatcher for each state, using the Nuclear Alert System number or the land line number provided in O.P. 3504, Emergency Communications, and request the State Police Dispatchers to advise one of the following persons from each state to contact plant side as soon as possible.

VERMONT

Paul Philbrook, Commissioner
Vt. Dept. of Public Safety and Civil Defense Director

George Lowe, Deputy Director Civil Defense

Ray McCandless, Director of Vermont Department of Occupational and Radiological Health

NEW HAMPSHIRE

Richard Strome, Director of New Hampshire Civil Defense

James Saggiotis, Deputy Director of New Hampshire Civil Defense

MASSACHUSETTS -

John Lovering, Deputy Director of Massachusetts Civil Defense

Robert Boulay, Director of Massachusetts Area IV Civil Defense

When the above criteria are satisfied, then proceed with Step 2. below.

2. 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. | State of Massachusetts | _____ | _____ |

- | | | | | |
|----|----|---|-------|-------|
| 3. | a. | Initiate a written report if required by A.P. 0010 or A.P. 0012. | _____ | _____ |
| | b. | If a written report is required, advise the three states that a written report will follow. | _____ | _____ |

4. Provide four (4) copies of the written report, if required by NRC, to the following off-site authorities:

- | | | | |
|----|---|-------|-------|
| a. | Commissioner of Public Safety - State of VT | _____ | _____ |
| b. | Director of Civil Defense - State of MASS | _____ | _____ |
| c. | Director of Civil Defense - State of NH | _____ | _____ |

10 CFR 2.790 INFORMATION

MEMORANDUM

TO Plant Procedure Manual Holders Vernon
COMPANY OR LOCATION

FROM B. N. Leach Vernon
COMPANY OR LOCATION

SUBJECT Change to Plant Procedure Manual

February 25, 1983

FILE 6.1.5

Chem & HP

DEPARTMENT INSTRUCTION 83-14

Concurring Individual: *[Signature]* Date: 2/25/83

SRO Concurring: *[Signature]* Date: 3/2/83

Second SRO Concurring: *[Signature]* Date: 3-2-83

Chemistry and Health Physics Supervisor or Plant Health Physicist:

Date: _____

This instruction becomes effective on the date that a Second Senior Licensed Operator signs above, unless a Health Physics procedure is involved, in which case this instruction becomes effective on the date that a Senior Licensed Operator and the Chemistry and Health Physics Supervisor or the Plant Health Physicist signs above.

Instruction Cancelled: Rev. 17 - of OP 3503

Scope of Instruction: Replace page 1 and 2 of Appendix I, page 2 of Appendix II, pages 1 and 3 of Appendix V and pages 2 and 3 of Appendix VIII with attached.

Reason for Change: To clarify procedure.

SPS/cjm

Reviewed *[Signature]* 3/5/83 Approved *[Signature]* 3/7/83
PORC Secretary Plant Manager

GENERAL - SHIFT SUPERVISOR/PLANT EMERGENCY DIRECTOR

Date: _____

Time _____ Initials _____

Immediate Actions:

1. Conditions have been assessed and the applicable Emergency Operating Procedures are utilized.

If a release is in progress or expected, refer to O.P. 3513, "Evaluation of Radiological Conditions" and O.P. 3511 "Off-Site Protective Action Recommendations."

2. A General Emergency has been declared because (indicate the condition per A.P. 3125 below): _____

3. Determine the immediate personnel response to be taken.

4. Turn the Page System Volume Increase Switch to the "Evacuation" position, turn the Alarm Switch to the "ON" position for fifteen seconds, and then announce the following over the Plant Paging System:

- a. "General Emergency, General Emergency, General Emergency"

- b. "There is (what) in/at (where)."

- c. "Emergency response personnel report to the Technical Support Center, the Operations Support Center, and the Emergency Operations Facility as required. All other personnel, visitors, and contractors report to the Governor Hunt House Information Center"

5. Notify the Shift Engineer to report to the Control Room and provide assistance.

6. a. Notify the New Hampshire, Massachusetts, and Vermont State Police Agencies by depressing number 111 on Nuclear Alert System orange phone (or utilizing telephone backup) and making the following announcement upon establishing communications:

- 1) "This is Vermont Yankee Nuclear Power Station in Vernon, VT";

- 2) "We have declared a General Emergency because (indicate the initiating condition per A.P. 3125 from Step 2 above)",

- 3) "The plant is (pick one)

- a. continuing normal operation,
 - b. reducing present power levels, or
 - c. shutdown";

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TimeInitials

- 4) "A release (pick one)
- is anticipated,
 - is in progress, or
 - is not expected to occur";
- 5) "Present meteorological conditions indicate (provide wind speed and direction from [degrees])";
- 6) "At the present time we recommend that the general public be advised to seek shelter."
- * 7) "I repeat, this is Vermont Yankee Nuclear Power Station in Vernon, Vermont. Please acknowledge with your name and agency."

Vermont _____ / _____
 _____ Name of Dispatcher _____ Time

N.H. _____ / _____
 _____ Name of Dispatcher _____ Time

Mass. _____ / _____
 _____ Name of Disptacher _____ Time

- b. State officials will be calling the plant in response to the initial notification. If plant conditions indicate a loss of all core cooling capability, then recommend to appropriate state officials that both the Towns of Hinsdale, N.H. and Vernon, Vermont be evacuated as per O.P. 3511, Off-site Protective Actions Recommendations.

NOTE: Subsequent notifications to state and federal authorities will be made by the Site Recovery Manager or his designee.

7. Notify the Security Shift Supervisor to activate the telephone paging system for plant personnel and Yankee NSD personnel. _____
8. Notify the NRC on the NRC Emergency Notification System red phone. Maintain an open, continuous communications channel on this line until relieved by the TSC staff. _____
9. When contacted by the EOF Coordinator, advise him of the classification and emergency conditions. _____

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Subsequent Actions:

1. Advise other individuals, as they call in, of the emergency classification.

Name of Caller

2. Route phone calls from State Officials to the SRM or in his absence to the appropriate C.R. personnel when received.

Name of CallerTitle/Agency

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APPENDIX V

ASSIGNMENT TAG BOARD

Tag No.

(1)

EOF Coordinator's Assistant

1. Open EOF Coordinator's kit, remove clipboard and contact TSC or Control Room. Inform the Tech. Support Coordinator, or in the absence of personnel in the Tech. Support Center, inform Plant Emergency Director of your presence and request the following:
 - a. Summary evaluation of plant conditions. (Take notes)
 - b. Type of release (and appropriate meteorological data):
(one of the following)
 - 1) Elevated (stack only) release -
"Upper" delta t (Δt)
Wind speed
Wind direction
 - 2) Ground (including combination stack and other release paths) release -
"Lower" delta t (Δt)
Wind speed
Wind direction
 - c. Directional stability of the wind (i.e., any indication of trending toward new direction?).
 - d. Whether or not the plant Emergency Director needs assistance in notifying plant management personnel, or other on-site assistance.
2. Determine habitability of the EOF using Appendix VI. If this facility is not habitable (criteria in O.P. 3507, Table II), then initiate actions described in O.P. 3514, Activation of the Alternate Emergency Operations Facility/Recovery Center.
3. Take charge of the Emergency Operations Facility until arrival of the EOF Coordinator. Test additional phones, check radio and gaitronics, etc.

*
*
*

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APPENDIX V (Continued)

Tag No.

- (4) (5) Cont. 7. The second member of team will, with priority, survey the exterior (including tires) of any emergency vehicle leaving the site. Log the results.
8. Report all significant or positive results to the EOF Coordinator or the Radiological Assistant. Log all results in the Personnel and Equipment Monitoring Logbook.

(6) Communications Assistant

1. Insure phones are functional.
2. Obtain box of Message Forms (O.P. 3504, Figure 2) from the EOF Coordinator's kit.
- * 3. Assign available personnel to phones and radio and provide them with a supply of blank forms.
4. Establish radio communications with all onsite and offsite teams prior to their departure from the outer gatehouse, if practicable.

NOTE: Utilize radio procedures contained in O.P. 3504.

5. Record the parties involved, date and time of each incoming or outgoing message by telephone, Gaitronics or radio on a Message Form.
6. On incoming calls, forward copies 1 and 3 to the EOF Coordinator or his appropriate assistant.

NOTE: Retain copy 2 (yellow) as a "tickler" for those messages requiring a reply.

7. When copy 1 is returned for dispatching a reply, discard copy 2 and note date and time the reply message was dispatched.
8. Retain completed copy 1 as a log record of all communications.

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APPENDIX VIII (CONTINUED)

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- a. Criticality controls are in effect;
- b. The core is being adequately cooled;
- c. The fission product release has been controlled;
- d. Control has been established over containment pressure and temperature;
- e. An adequate heat transfer path to an ultimate heat sink has been established;
- f. Reactor coolant system pressure is under control; and/or
- * g. General Emergency conditions (from A.P. 3125) have been
- * terminated and/or;
- h. The States of Vermont, New Hampshire and Massachusetts reach agreement with the Site Recovery Manager or his designee that there is no longer a need for either consideration of further public protective action or surveillance related to public protective action.

NOTE: 1. For ongoing emergencies where de-escalation or termination of the emergency class is indicated and the State's Emergency Operations Centers (EOC's) have been activated, contact the State's EOC's via Nuclear Alert System (orange phone) or land line, and "reach agreement" with the state official in charge at the respective State's EOC.

The following Bell Telephone numbers should be used:

Vermont EOC
New Hampshire EOC
Massachusetts EOC

2. For ongoing emergencies where de-escalation or termination of the emergency class is indicated and the State's EOC's have not yet been activated (because of personnel in transit to their EOC's), contact the respective State Police Dispatcher for each state, using the Nuclear Alert System number or the land line number provided in O.P. 3504, Emergency Communications, and request the State Police Dispatchers to advise one of the following persons from each state to contact plant site as soon as possible.

VERMONT

Paul Philbrook, Commissioner
Vt. Dept. of Public Safety and Civil Defense Director

George Lowe, Deputy Director Civil Defense

Rav McCandless, Director of Vermont Department of Occupational and Radiological Health

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APPENDIX VIII (Continued)

Time

Initials

NEW HAMPSHIRE

Richard Strome, Director of New Hampshire Civil Defense

James Saggiotis, Deputy Director of New Hampshire Civil Defense

MASSACHUSETTS

John Levering, Deputy Director of Massachusetts Civil Defense

Robert Boulay, Director of Massachusetts Area IV Civil Defense

When the above criteria are satisfied, then proceed with Step 2. below.

2. 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 Massachusetts

3. a. Initiate a written report if required by A.P. 0010 or A.P. 0012.

b. If a written report is required, advise the three states that a written report will follow.

4. Provide four (4) copies of the written report, if required by NRC, to the following off-site authorities:

a. Commissioner of Public Safety - State of VT

b. Director of Civil Defense - State of MASS

c. Director of Civil Defense - State of NH

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Withhold Attachment
From Public Disclosure

MEMORANDUM

TO: Plant Procedure Manual Holders Vernon
COMPANY OR LOCATION

FROM: B. N. Leach Vernon
COMPANY OR LOCATION

SUBJECT: Change to Plant Procedure Manual

January 31, 1983

FILE 6.1.5Chem & HPDEPARTMENT INSTRUCTION 83-7Concurring Individual: [Signature] Date: 1/31/83SRO Concurring: W. A. [Signature] Date: 1/31/83Second SRO Concurring: P. J. [Signature] Date: 1/31/83

Chemistry and Health Physics Supervisor or Plant Health Physicist:

[Signature] Date: 1/31/83

This instruction becomes effective on the date that a Second Senior Licensed Operator signs above, unless a Health Physics procedure is involved, in which case this instruction becomes effective on the date that a Senior Licensed Operator and the Chemistry and Health Physics Supervisor or the Plant Health Physicist signs above.

Instruction Cancelled: Rev. 16 of OP 3504

Scope of Instruction: Replace pages 5, 6, page 2 of Appendix A and Table 1 with attached.

Reason for Change: Corrective Update to include clarification and correction of procedure and staff change.

SPS/cjm

Reviewed: R. J. Kennedy 2/3/83 Approved: [Signature] for JPP 2/9/83
PORC Secretary Plant Manager

2. Use of NRC Health Physics Network (Blue) Phones

- a. Lift telephone receiver.
- b. Dial desired number.

NOTE: No dial tone is present in this system. Refer to manual provided with each blue phone for phone numbers and more detailed instructions.

- c. No audible ringing will be heard when making a call. Therefore, wait for 30 seconds and then repeat Step b. This will reactivate the desired phone.

G. Use of Mobile UHF Radio System

- NOTE:
1. This system is utilized by all emergency teams and consists of a 100 watt UHF MASTR II (repeater) with its high gain antenna mounted on top of the 150 foot "Old" Met Tower and a 75 watt UHF MICOR COMPA (repeater) with its high gain antenna mounted on top of the 330 foot "New" Met tower. These repeaters are actuated by six radio sets located in the Control Room, Gates 1 & 2, the Secondary Alarm Station (SAS), the Gov. Hunt House, and the TSC Communications Room. In addition, six company vehicles are permanently equipped with radio sets. Twenty-eight Portable units actuate the 100 watt repeater on the F1 position of the frequency switch and the 75 watt repeater when their unit is in the F3 position of the frequency switch. All emergency teams will utilize the F3 position of the frequency switch. Within approximately 5 miles of the plant, the only known "Dead Spot" under this maximum range of operation is midway between Guilford and Route 142 on Broad Brook Road near the Brattleboro-Vernon town line.
 2. In the event the F3 position repeater fails, switch to the position F1 of the frequency switch. In the event both repeaters for channels F1 and F3 fail, a "talk around" (the repeaters) feature allows continued communications between portable units at 4 watts output when their frequency selector switch is in the position F2.

NOTE: The call sign for the three frequencies is as follows:

F1 -
F2 -
F3 -

3. During a Site Area or General Emergency all portable radios are issued at the outer gatehouse to emergency teams requiring their use. During an Alert, radios are issued from the inner gatehouse, if needed.

4. Portable radios are NOT to be used behind the Control Room panels or in the vicinity of the EPR panel near the head of the stairs to the Feed Pump Room.
5. In the event that messages of a routine nature are occupying the radio channel and it is necessary to transmit an urgent message, depress the microphone button and announce "Break, Break, Break - Urgent Message." When the channel is cleared of traffic, proceed with the urgent message.

1. Remote Controllers

- a. Insure unit is ON.
- b. Depress microphone switch when transmitting; release for receiving.
- * c. Initiate call by saying "This is (call sign) (unit calling) to (unit called). Over".

NOTE: Unit designations used during conversation are as follows:

<u>Base or Mobile Unit</u>	<u>Unit Designation</u>
Control Room	Control Room
Emergency Operations Facility/RC	Coordinator Base
T.S.C. Communications Room	T.S.C. Base
Security - Gate 1	Outer Gate
Security - Gate 2	Inner Gate
Security - Secondary Alarm Station	SAS
On-Site Assistance 1, 2, etc.	Red, 1, 2, etc.
Site Boundary	Yellow Team
Off-Site Monitoring 1	Green Team
Off-Site Monitoring 2	Blue Team

NOTE: Memory hint - Red (a "hot" color) closest to source, to blue (a "cool" color) furthest from source of emergency.

- d. When acknowledged, carry out conversation.
- e. The party completing the conversation should end with "This is (call sign) Clear".

NOTE: If a drill, state "This is a drill."

2. Portable Units

- a. Rotate the portable radio volume control one-half turn clockwise to turn ON the radio.

APPENDIX A (Continued)

TELEPHONE NUMBER

Vermont Department of Health

Vermont State Police

Vernon Hydro Station

Yankee Atomic Electric Company, Framingham, MA
(Main Switchboard)

* Yankee Atomic Electric Company (activates pagers)

YNSD Security, Framingham, MA

Table 1

PAGER ASSIGNMENTS

	<u>Title</u>	<u>Name</u>	<u>Home Phone</u>
#	President	William F. Conway	
#	Asst. to the President	Earl Jackson	
	VP/Manager of Operations	Warren P. Murphy	
#	Plant Manager	James P. Pelletier	
	Technical Services Supt.	Donald A. Reid	
	Operations Superintendent	Stanley J. Jefferson	
	Maintenance Superintendent	William L. Wittmer	
	Maintenance Supervisor	R. John Gianfrancesco	
	Chemistry & HP Supervisor	Bob N. Leach	
#	Instr. & Cont. Supervisor	Patrick J. Donnelly	
.	Communications Director	Steve Bravar	
#	Operations Supervisor	Richard L. Branch	
	Asst. Operations Supervisor	Barry W. Metcalf	
	Training Supervisor	Edwin W. Bowles	
	Reactor & Computer Supv.	Bernard R. Buteau	
	Engineering Support Supv.	Richard D. Pagodin	
#	Operations Support Manager	Richard W. Burke	
	Stby Nuc. Safety Engineer		
	Administrative Supervisor	Robert F. Milligan	

*Unlisted number - Do not give out

Central Answering Service phone number

*These people have an additional pager for the Greenfield area which will be called by the page service when this number is called.