

TO: USNRC DCC

VERMONT YANKEE CONTROLLED DOCUMENT TRANSMITTAL FORM

License No DPR-28
Docket No 50-271

SECTION 1

DOCUMENT TITLE: IMPLEMENTING PROCEDURES TO THE E-PLAN

COPY NUMBER: 54

CHANGE NUMBER: #186

ISSUE DATE: August 07, 2000

INSTRUCTIONS:

- a. Attached is an authorized controlled copy to the above listed document for retention as your assigned copy.
- b. Review the revised material.
- c. Incorporate new change into the controlled document by document issue date, if applicable.
- d. Ensure that those who use the document are aware of the change.
- e. Destroy all superseded pages.
- f. Destroy obsolete forms and insert new forms into the files.
- g. Sign and date this form and return to the Executive Secretary (ES) or Document Control Center (DCC).
- h. Complete appropriate change information on VY Controlled Document Record of Changes.

TRANSMITTED BY: *John M. [Signature]*

ES or DCC Signature

**AFTER COMPLYING WITH THE ABOVE
INSTRUCTIONS, PLEASE RETURN TO THE ES OR
DCC WITHIN 10 DAYS OF THE ISSUE DATE.**

SECTION 2

The undersigned acknowledges completion of the preceding instructions.

Signature of Recipient: _____ Date: _____

A045

Eplan Implementing Plant Procedures

To: Eplan Implementing Procedure Controlled Set Holders

From: Diane McCue

Date: 08/0700

Re: VY Eplan Implementing Procedure Change # 186, Instruction Sheet

REVISIONS:

Please replace the following procedures: -

<u>Proc/Rev #</u>	<u>Canceled DI's</u>	<u>Procedure Title</u>
OP 3500/19	99-70	Unusual Event
OP 3501/20	98-433, 99-71 99-611, 2000-20	Alert
OP 3502/32	98-434, 99-72 99-612, 2000-21	Site Area
OP 3503/34	98-435, 99-73 99-613, 2000-32	General

LPC's: The following LPC's should be incorporated into the appropriate procedures:

<u>Proc/Rev #</u>	<u>LPC#</u>	<u>Procedure Title</u>
OP 3510/24	1	Off-Site & Site Boundary
OP 3513/20	2	Evaluation of Off-Site Rad Conditions

REVIEW EXTENSIONS

A periodic review was performed on the following procedures and determined that no revisions were required at this time, thus a new 2-year review date was issued. A cover sheet for each procedure with the new review date is provided and should be placed on the front of the appropriate document.

<u>Proc/Rev #</u>	<u>Procedure Title</u>
OP 3511/11	Off-Site Protective Action Recommendations
OP 3536/1	In-Plant Air Sample Analysis w/Abnormal Conditions

A new Table of Contents is provided.

VERMONT YANKEE EMERGENCY PLAN IMPLEMENTING PROCEDURES

TABLE OF CONTENTS

August 11, 2000

Emergency Plan Classification and Action Level Scheme	AP 3125	Rev. 17	"R"
Unusual Event	OP 3500	Rev. 19	"R"
Alert	OP 3501	Rev. 20	"R"
Site Area Emergency	OP 3502	Rev. 32	"R"
General Emergency	OP 3503	Rev. 34	"R"
Emergency Communications	OP 3504	Rev. 31	"R"
Emergency Preparedness Exercises and Drills	OP 3505	Rev. 23	"I"
Emergency Equipment Readiness Check	OP 3506	Rev. 38	"R"
Emergency Radiation Exposure Control	OP 3507	Rev. 29	"R"
On-Site Medical Emergency Procedure	OP 3508	Rev. 22	"R"
Environmental Sample Collection During an Emergency	OP 3509	Rev. 16	"R"
Off-Site and Site Boundary Monitoring	OP 3510	Rev. 24	"F"
Off-Site Protective Actions Recommendations	OP 3511	Rev. 11	"R"
Evaluation of Off-Site Radiological Conditions	OP 3513	Rev. 20	"R"
Emergency Actions to Ensure Accountability and Security Response	OP 3524	Rev. 16	"R"
Radiological Coordination	OP 3525	Rev. 9	"R"
Emergency Call-In Method	OP 3531	Rev. 13	"R"
Emergency Preparedness Organization	AP 3532	Rev. 9	"I"
Post Accident Sampling of Reactor Coolant	OP 3533	Rev. 4	"C"
Post Accident Sampling of Plant Stack Gaseous Releases	OP 3534	Rev. 2	"C"
Post Accident Sampling and Analysis of Primary Containment	OP 3535	Rev. 3	"C"
In Plant Air Sample Analysis with Abnormal Condition	OP 3536	Rev. 1	"C"
Emergency Plan Training	OP 3712	Rev. 15	"I"

LPC's

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3510

REVISION 24

OFF-SITE AND SITE BOUNDARY MONITORING

USE CLASSIFICATION: **REFERENCE**

LPC No.	Affected Pages
1	24 of 26

Implementation Statement: N/A

Issue Date: 05/25/00

2) PIC-6A

- a. Turn range switch to BATTERY CHECK position and verify that the battery condition is within the BATT OK range. _____
- b. Verify an upscale meter response on the mR/hr scale by use of the check source in the Emergency Kit. _____
- c. Check calibration date. _____

- B. Report to the GHH or as directed by the OSC Coordinator. _____
- C. Periodically inform the OSC Coordinator of any pertinent radiological or other significant information. If the background in the GHH is greater than 2000 cpm, immediately notify the OSC Coordinator to determine an alternate monitoring location.

NOTE

Utilize the best means available to communicate with required personnel (plant telephone, PA system, radio etc.).

- D. Notify the OSC Coordinator to obtain current plant status and pertinent release information.
- E. Keep personnel at the GHH aware of significant changes in plant conditions.
- F. Implement the following steps for the applicable emergency classification:

1) Alert

- a. Await further instructions from the TSC or OSC.
- b. If an escalation in the emergency class (from an Alert) is declared, notify all VY personnel to report to the EOF unless directed otherwise, and have all other personnel evacuate the GHH. Frisking of personnel or vehicles is not required unless otherwise directed by the TSC or OSC.

LPC 1

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3513

REVISION 20

EVALUATION OF OFF-SITE RADIOLOGICAL CONDITIONS

USE CLASSIFICATION: **REFERENCE**

LPC No.	Affected Pages
1	Appendix K
2	Appendix K Pg 3 of 4

Implementation Statement: N/A

Issue Date: 04/16/99

APPENDIX K (Continued)

F = SBTG retention values.
 F = 1, SBTG not in use
 F = 1, SBTG noble gas retention
 F = 0.05, SBTG iodine and particulate retention

- c. Fast or slow containment leakage when Reactor Building Air Concentrations are known.

$$SRR(\mu\text{Ci/sec}) = RBC(\mu\text{Ci/cc}) \times RBFR(\text{cc/sec}) \times F = \underline{\hspace{2cm}} \mu\text{Ci/sec}$$

RBC = Reactor Building air concentration.

- d. Containment failure to environment via Reactor Building blowout panels (Ground Level). Assumes immediate uniform mixing of the Reactor Building with Containment and 50% of the Reactor Building volume is released to the environment in 15 minutes.

GLRR = Ground Level release rate is $1.6E7$ cc/sec assuming 50% of the Reactor Building volume is released in 15 minutes.

$$RBC(\mu\text{Ci/cc}) = \frac{CC(\mu\text{Ci/cc}) \times CV(\text{cc})}{RV(\text{cc}) + CV(\text{cc})} = \frac{CC(\mu\text{Ci/cc})}{5.2} = \underline{\hspace{2cm}} \mu\text{Ci/cc}$$

5. If Elevated release, obtain Stack High Range Monitor reading SHRM from Nomogram for elevated release using SRR value calculated earlier.

$$SHRM = \underline{\hspace{2cm}} \text{mR/hr}$$

6. If requested, Stack air concentrations can be calculated using the following formula:

$$\text{Stack Air Concentration}(\mu\text{Ci/cc}) = \frac{SRR(\mu\text{Ci/sec})}{\text{Stack Flow Rate}(\text{cc/sec})}$$

7. Insert previously calculated values into Metpac or Nomogram as appropriate to complete release projection.

8. All "what if" dose projections must be clearly marked with appropriate stamp or label. "What if" dose projection stamp is available in the EOF Emergency Cabinet #3.

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3513

REVISION 20

EVALUATION OF OFF-SITE RADIOLOGICAL CONDITIONS

USE CLASSIFICATION: **REFERENCE**

LPC No.	Affected Pages
1	Appendix K
2	Appendix K Pg 3 of 4

Implementation Statement: N/A

Issue Date: 04/16/99

APPENDIX K (Continued)

F = SBTG retention values.
 F = 1, SBTG not in use
 F = 1, SBTG noble gas retention
 F = 0.05, SBTG iodine and particulate retention

- c. Fast or slow containment leakage when Reactor Building Air Concentrations are known.

$$SRR(\mu\text{Ci/sec}) = RBC(\mu\text{Ci/cc}) \times RBFR(\text{cc/sec}) \times F = \underline{\hspace{2cm}} \mu\text{Ci/sec}$$

RBC = Reactor Building air concentration.

- d. Containment failure to environment via Reactor Building blowout panels (Ground Level). Assumes immediate uniform mixing of the Reactor Building with Containment and 50% of the Reactor Building volume is released to the environment in 15 minutes.

GLRR = Ground Level release rate is $1.6\text{E}7$ cc/sec assuming 50% of the Reactor Building volume is released in 15 minutes.

$$RBC(\mu\text{Ci/cc}) = \frac{CC(\mu\text{Ci/cc}) \times CV(\text{cc})}{RV(\text{cc}) + CV(\text{cc})} = \frac{CC(\mu\text{Ci/cc})}{5.2} = \underline{\hspace{2cm}} \mu\text{Ci/cc}$$

5. If Elevated release, obtain Stack High Range Monitor reading SHRM from Nomogram for elevated release using SRR value calculated earlier.

$$SHRM = \underline{\hspace{2cm}} \text{mR/hr}$$

6. If requested, Stack air concentrations can be calculated using the following formula:

$$\text{Stack Air Concentration}(\mu\text{Ci/cc}) = \frac{SRR(\mu\text{Ci/sec})}{\text{Stack Flow Rate}(\text{cc/sec})}$$

7. Insert previously calculated values into Metpac or Nomogram as appropriate to complete release projection.

8. All "what if" dose projections must be clearly marked with appropriate stamp or label. "What if" dose projection stamp is available in the EOF Emergency Cabinet #3.

Cover Sheets with New Review Dates

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3511

REVISION 11

OFF-SITE PROTECTIVE ACTION RECOMMENDATIONS

USE CLASSIFICATION: **REFERENCE**

LPC No.	Affected Pages

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

VERMONT YANKEE NUCLEAR POWER STATION

OPERATING PROCEDURE

OP 3536

REVISION 1

IN-PLANT AIR SAMPLE ANALYSIS WITH ABNORMAL CONDITIONS

USE CLASSIFICATION: **CONTINUOUS**

LPC No.	Affected Pages

Implementation Statement: OP 3536 Rev. 1 is approved for continued use with a new Review Date of 04/30/01.

Issue Date: 04/30/97