

AP 1001
re 1001-B

Three Mile Island Nuclear Station
Special Operating Procedure

priority 2
1/10

SOP No. 130-308
(From SOP Log, Inc.)
Unit No. _____
Date _____

NOTE: Instructions and guidelines in AP 1001 must be followed when completing this form.

1. Title Ex-Core Det. Noise Analysis & Assess.

2. Purpose (include purpose of SOP) Protect crew from noise & analyze of uncompensated ex-core ion chambers to bring to attention crew configurations.

3. Attach procedure to this form written according to the following format:

A. Limitations and Precautions

1. Nuclear Safety
2. Environmental Safety
3. Personnel Safety
4. Equipment Protection

B. Prerequisites

C. Procedure

Attch

Generated by Wm. G. Smith Date 4-6-77

5. Duration of SOP - Shall be no longer than 90 days from the effective date of the SOP or (a) or (b) below - whichever occurs first.

(a) SOP will be cancelled by incorporation into existing or new permanent procedure submitted by MA

(b) SOP is not valid after _____
(fill in circumstances which will result in SOP being cancelled)

6. (a) Is the procedure Nuclear Safety Related?

If "yes", complete Nuclear Safety Evaluation. (side 2 of this form) Yes No

(b) Does the procedure affect Environmental Protection?

If "yes", complete Environmental Evaluation. (side 2 of this form) Yes No

(c) Does the procedure affect radiation exposure to personnel? Yes No

NOTE: If all answers are "no", the change may be approved by the Shift Supervisor. If any questions are answered "yes", the change must be approved by the Unit Superintendent.

7. Review and Approval

Approved - Shift Supervisor

W. G. Smith

4/6/77

Reviewed - List members of PORC contacted

John A. Brennan

4/6/77

W. G. Smith

W. G. Smith

4/6/77

W. G. Smith

W. G. Smith

4/6/77

Approved - Unit Superintendent

W. G. Smith

4/6/77

8. SOP is Cancelled

Shift Supervisor/Shift Foreman

Date

130 308

- e. Turn on the power supply feeding the detector.
- f. Record the picoammeter readings.
- g. Measure the noise voltage and take spectrum analysis with the dual channel analyzer.
- h. Turn off the power supply feeding the detector.
- i. Disconnect the picoammeter from the ~~detector~~ connectors and restore the connectors on the connection box.
- j. Turn on the power supply feeding the detector.
- k. Perform steps a through l for each detector.
- l. Verify circuit is restored properly.

3. REFERENCES

1. B+W #54, "Procedure for Cut of Core NI Measurement in the NI/RPS Cabinets"

4. ATTACHMENTS

- a. Reference a

5. LIMITS AND PRECAUTIONS

1. Notify the Shift Supervisor prior to performing this procedure, and obtain his approval.

6. PROCEDURE

- a. For NI-1, 2, 3, 4, 5, 6, 7, or 8, as desired, verify the output of the high voltage power supply for the detector by observing the meter on the front of the module, ~~or measuring the output at 2/5~~. (Output of jack is divided by 1000).
- b. Turn off the power supply feeding the selected detector.
- c. Remove the connector from the connector box (at the back of the linear amplifier) and connect it to a picammeter. CAUTION: H.V. returns on the chain Current flow through the picammeter should be to ground (cabinet frame). To measure the top and bottom chambers, connect both connectors to a picammeter.
- d. Connect a noise amplifier to the picammeter for noise analysis.