

AP 1001
Figure 1001-8

Three Mile Island Nuclear Station
Special Operating Procedure

(NRC)

SIDE 1
SOP No. 2-37 (REV)
(From SOP Log Index)

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

Unit No. 2
Date 4-4-79

1. Title Alternate Pressurizer Level Indication

2. Purpose (include purpose of SOP)
To provide alternate source of pressurizer level indication in the event RLI-LTI, 2 & 3 all fail

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

Attach

B. Prerequisites

C. Procedure

Generated by _____ Date _____

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 MMA
- (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 B. Neher 4/4/79

Reviewed - List members of PORC contacted PORC mem 4/1/79

6LW iifp 4-4-79 John Spitzer 4/2/79

WA [Signature] 4/1/79 [Signature] 4/1/79

Approved - Unit Superintendent W.C. Ryan 4/4/79

[Signature] 4/1/79

8. SOP is Cancelled

Shift Supervisor/Shift Foremen Date 130 235

"EVALUATION"

AP-1001

Three Mile Island Nuclear Station

SIDE 2

Figure 1001-8

Nuclear Safety/Environmental Impact Evaluation

SOP No. _____

1. Title _____

2. Nuclear Safety Evaluation

Does this SOP:

- (a) increase the probability of occurrence or the consequences of an accident or malfunction of equipment important to safety? yes no
- (b) create the possibility for an accident or malfunction of a different type than any evaluated previously in the safety analysis report? yes no
- (c) reduce the margin of safety as defined in the basis for any technical specification? yes no

Details of Evaluation (Explain why answers to above questions are "no". Attach additional pages if required.)

Evaluation By _____ Date _____

3. Environmental Impact Evaluation

Does this SOP:

- (a) possibly involve a significant environmental impact? yes no
- (b) have a significant adverse effect on the environment? yes no
- (c) involve a significant environmental matter or question not previously reviewed and evaluated by the N.R.C. yes no

Details of Evaluation

Evaluation By _____ Date _____

* NOTE: If these questions are "yes", the change must receive N.R.C. approval.

4. Review (PORC review of evaluation is required only when requested by the Station Superintendent/Unit Superintendent. If this review is made, the PORC must consist of two off-site members.)

1. _____

2. _____

Off-Site Members

PORC Chairman Signature

Date

5. Approval

Station Superintendent/Unit Superintendent

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Prerequisites

The following valves are closed prior to commencing work:

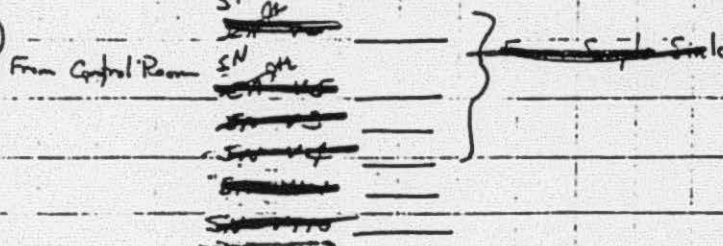
CA-V6
SN-V101

CA-V1

CA-V3

CA-V10

~~SN-V101~~



Procedure

1. Locate ~~SA-V5~~ in Unit "1" Sample Sink.

2. Install ~~1/4" x 1/4"~~ 1/4" x 1/8" reducing on 1/4" tubing downstream of ~~SA-V5~~ SN-V101 (Refer Fig 1)

3. Route a run of 1/8" SS tubing from sample sink into rad. chem lab.

NOTE: Route tubing run along floor such that shielding can be installed around tubing (except doorway as necessary).

4. Install 1/8" - 1/4" reducer, isolation valves, pipe tee with 0-3000 psig Heise Gauge and cap as shown in Figure 1.

See NOTE: Fill newly installed tubing with water and vent water thru Heise Gauge prior to connecting tubing to ~~SA-V5~~ SN-V101 to remove air from tubing.

5. Remove cap on pipe Tee and hook up hydro pump.

6. Pressurize tubing back to ~~SA-V5~~ SN-V101 to 2500 psig and check for leaks. Repair leaks as needed, then vent pressure when complete.

7. Isolate hydro pump by closing SN-V103. Remove hydro pump and replace cap on pipe tee.

8. Close isolation valves ~~SA-V1~~ SN-VA-V1, ~~SA-V2~~ SN-VA-V2, ~~SA-V3~~ SN-VA-V3.

~~9. Install lead brick shielding prior to sampling pressurized Heise gauge 20 ft. primary system.~~

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~~10. Install Sample Pump tubing caps on ends of~~

D. Operation of System to obtain alternate pressurizer level indication.

1. Prior to leaving Unit 1 Sample Sub/Rad Chem Lab area perform following valve line up.

- Lineup for SN-V5
- a. SN-V2 OPEN
 - b. SN-V5 ~~close~~ OPEN
 - c. SN-V-T1 OPEN
 - d. SN-V-T2 OPEN
 - e. SN-V-T3 CLOSE

2. When alternate level indication is required as determined by Shift Supervisor, perform the following valve line up from Control Room.

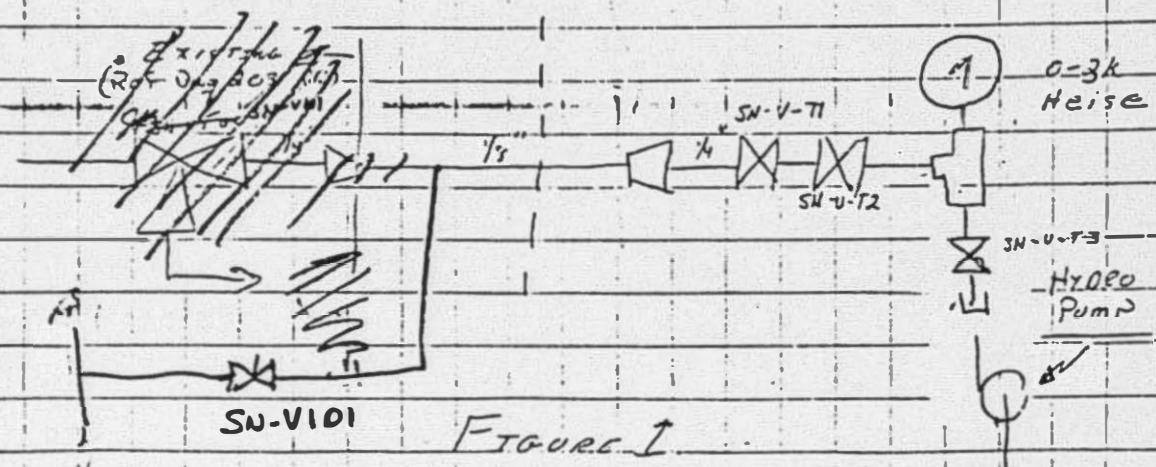
- a. CA-V10 OPEN
- b. CA-V1 * OPEN (Steam Space Indicator)
- OR
- CA-V3 * OPEN (Water Space Indicator)

* Only one valve will be open @ a time depending on ^{which} Steam Space Indicator (CA-V1) or Water Space Indicator (CA-V3) is desired.

Lineup for SN-V101

30 k	SN-V2 close	close	SN-VT3	CLOSE
	SN-V3 close	close	SN-V1	OPEN
	SN-V4 close	OPEN	SN-V110	CLOSED
	SN-V101	OPEN	SN-V6	CLOSED
	SN-VT1	OPEN	SN-V5	CLOSED
	SN-VT2	OPEN	SN-V109	CLOSED
			SN-V7	CLOSED
			SN-V161	CLOSED
			SN-V174	CLOSED

SAMPLE 55UR ← → RAO CHEM LAB & BENCH



• Partial Figure 2 Ref. Dwg 2031

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V-05
SN-Viol

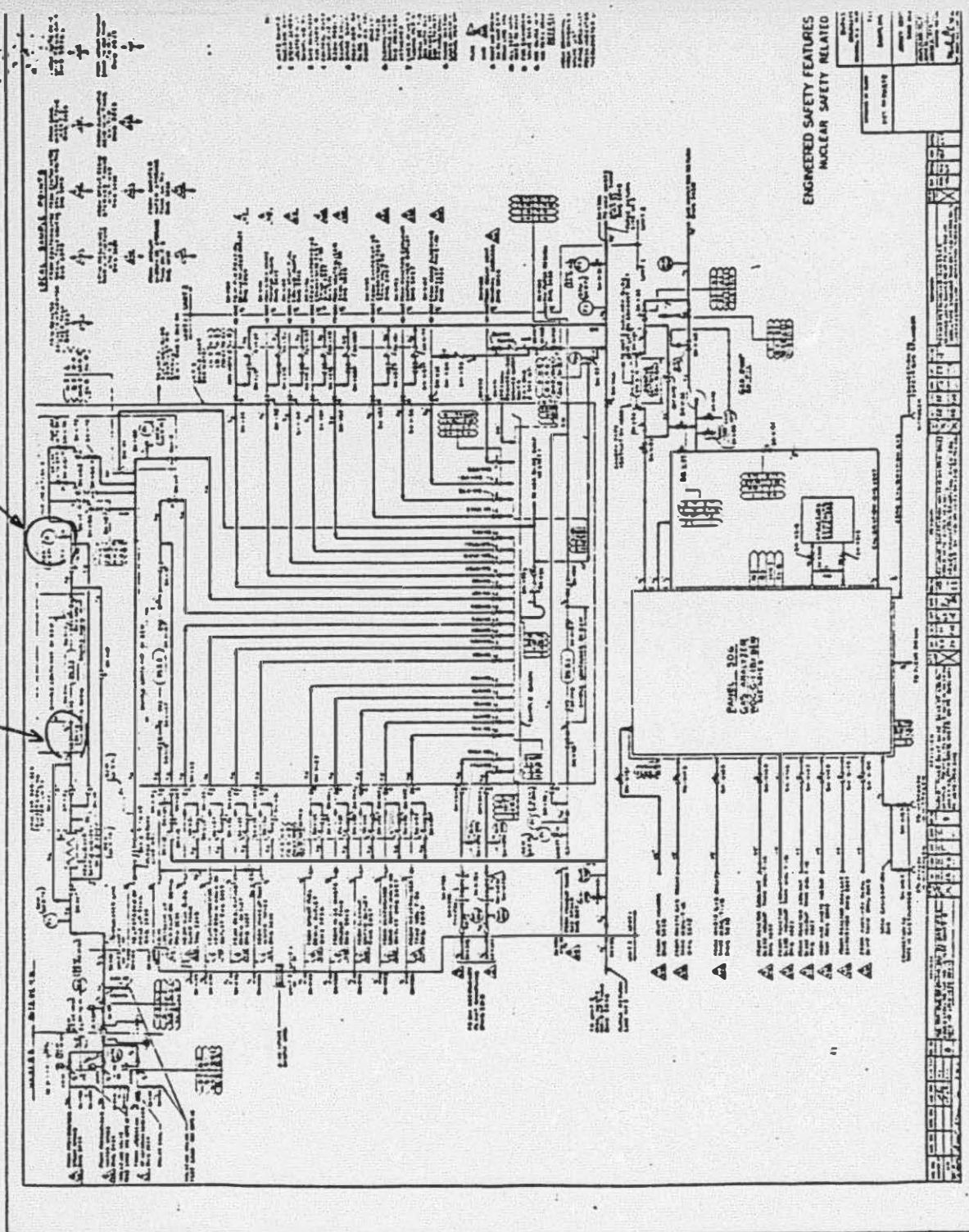


Figure 2

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