

H. H. Chairman

AP 1001

Three Mile Island Nuclear Station

SIDE 1

Figure 1001-8

Special Operating Procedure

SOP No. 7-28 Rev. 0
(From SOP Log Index)

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

Unit No. II

Date 5/6/79

NRC

1. Title OTSG LEVEL CONTROL WHILE FEEDING THROUGH THE EMERGENCY FEED NOZZLE(S)

2. Purpose (include purpose of SOP)

To provide the instructions necessary to provide flow to the S/G(s) from the condensate pump(s) via the emergency feedwater pumps EF-P-2A or EF-P-2B and flow nozzle(s) EF-U10A and EF-U10B.

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

Attached

4. Generated by TSPG Date 5/6/79

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 NRC

(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 3 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 _____

Reviewed - List members of PORC contacted

NRC Frank P. ... 5/11/79
GEW B.G. ... (5/11/79)
SA ...

NRC ... 5/9/79
... 5/6/79

RWB ... 5/9/79
... 5/9/79

Approved - Unit Superintendent _____

8. SOP is Cancelled _____

Shift Supervisor/Shift Personnel

Date

OTSG LEVEL CONTROL WHILE FEEDING
THROUGH THE EMERGENCY FEED NOZZLE(S)

1.0 PURPOSE

- 1.1 To provide the instructions necessary to provide flow to the S/G(s) from the condensate pump(s) via the emergency feedwater pumps EF-P-2A or EF-P-2B and flow nozzle(s) EF-U10A and EF-U10B.

2.0 REFERENCES

- 2.1 Feedwater and condensate flow diagram: Dwg. 2005.

3.0 PRECAUTIONS AND LIMITATIONS

- 3.1 Maintain condensate pump flow at a minimum of 2000 gpm.
- 3.2 Ensure an adequate oil supply to the Emergency S/G Feed Pump bearings in accordance with the following indications:
 - 3.2.1 For the motor driven EFP's #2A and 2B; check the ~~two~~ "bullseye" oil supply indicators on the motor ends and the ~~two~~ bubbler indicators on the pump ends.

4.0 PREREQUISITES

- 4.1 Z-48, condensate pump flow test through the emergency feed pumps has been performed

Date _____ Int. _____

5.0 PROCEDURE

- 5.1 Perform the valve alignment associated with the emergency feedwater pump desired to provide the flow path for condensate to the S/G(s) (Attachment A - EF-P-2A; Attachment B - EF-P-2B). Mark the Attachment not used N/A. Go through pump 2A or 2B, not both pumps.

Attachment A _____

Attachment B _____

- 5.2 Open the emergency feedwater isolations to the S/G(s). If it is not desired to feed both S/G(s), mark the appropriate isolation left in the closed position N/A.

EFW to OTSG "A" (EF-V12A) Open _____

EFW to OTSG "B" (EF-V12B) Open _____

5.3 Slowly open the emergency feedwater control valve(s) to the S/G(s): EF-V11A (S/G "A") and/or EF-V11B (S/G "B").

5.4 As S/G level(s) begin to increase, slowly close FW-V25A and/or FW-V25B while opening the associated EFW control valve (EF-V11A and EF-V11B). Continue transfer to control until FW-V25A and FW-V25B are fully closed.

NOTE: Maintain S/G level(s) as necessary by positioning the EFW control valves.

ATTACHMENT A

<u>Valve No.</u>	<u>Description</u>	<u>Position</u>	<u>Initials</u>
EF-V23A	EF-P-2A Bearing Inlet Test Conn.	CL	_____
EF-V24A	EF-P-2A Bearing Outlet Test Conn.	CL	_____
CO-V83B	EF-P-2B Suction Isolation	CL	_____
EF-V29A	EF-P-2A Bearing Inlet Isolation	OP	_____
EF-V31A	EF-P-2A Bearing Outlet Drain	OP	_____
EF-V32A	EF-V12A Bypass	CL	_____
EF-V32B	EF-V12B Bypass	CL	_____
EF-V33A	EF-V11A Bypass	CL	_____
EF-V33B	EF-V11B Bypass	CL	_____
CO-V125	Suction to EF-P-1	CL	_____
CO-V97C	CO-DPS-1165 Isolation	OP	_____
CO-V97A	CO-DPS-1165 Isolation	OP	_____
CO-V93A	CO-U7A Drain Isolation	CL	_____
CO-V92A	CO-U7A Quick Disconnect Isolation	CL	_____
CO-V86A	CO-PS-1115 Isolation	OP	_____
EF-V3A	EF-P-2A Discharge Pressure Inst. Isolation	OP	_____
EF-V4A	EF-P-2A Discharge Isolation	OP	_____
EF-V5A	EF-P-1 Discharge to RC-H-1A	OP	_____
EF-V5B	EF-P-1 Discharge to RC-H-1B	OP	_____
EF-V14A	"A" Em. Feedwater to RC-H-1A Drain	CL	_____
EF-V14B	"B" Em. Feedwater to RC-H-1B Drain	CL	_____
EF-V15A	"A" Em. Feedwater to RC-H-1A Drain	CL	_____
EF-V15B	"B" Em. Feedwater to RC-H-1B Drain	CL	_____
EF-V16	Em. Feedwater Pump Disc. Head. Drain	CL	_____
EF-V17	Em. Feedwater Pump Disc. Head. Drain	CL	_____

ATTACHMENT A (CONTINUED)

<u>Valve No.</u>	<u>Description</u>	<u>Position</u>	<u>Initials</u>
CO-V85	Condensate to EF	OP	_____
CO-V87	EF Pump Suction Header Isolation	OP	_____
CO-V83A	EF-P-2A Suction Isolation	OP	_____
EF-V39	EF-P-2A Recirc. Line Min. Flow Orifice Bypass	CL	_____
EF-V-36	FW to SG 8 Drain Isolation	CL	_____
EF-V-37	FW to SG 8 Drain Isolation	CL	_____
EF-V10	EF-P-1 Discharge Isolation	CL	_____
EF-V18	EF-P-1 Discharge Vent	CL	_____
EF-V19	EF-P-1 Discharge Vent	CL	_____
EF-V-501	EF-PI 2001 Isolation	OP	_____
EF-V-502	EF-PT 1150 Isolation	OP	_____
EF-V-503	Inst. Drain Isolation	CL	_____
EF-IV-504	EF-PI 2002 Isolation	OP	_____
EF-IV-505	EF-PT 1147 Isolation	OP	_____
EF-IV-506	Inst. Drain Isolation	CL	_____
EF-IV-507	EF-PI 2003 Isolation	OP	_____
EF-IV-508	EF-PT 826 Isolation	OP	_____
EF-IV-509	Inst. Drain Isolation	CL	_____