

AP 1001

Three Mile Island Nuclear Station
Special Operating Procedure

SIDE 1

Figure 1001-8

SOP No. 2116 mcb
(From SOP Log Index)

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

Unit No. Unit 1

Date 5-23-79

1. Title Procedure for Recirculating/operating Test of Long Term OTSG's
2. Purpose (include purpose of SOP)
TEST Pump or recir to check for leakage

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.

NRC

4. 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 _____

(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 [Signature] 5-23-79
Date

Reviewed - List members of PORC contacted T. Mark P. [Signature] 5-23-79
Date

[Signature] 5-23-79 [Signature] 5-23-79
Date Date

[Signature] 5-23-79
Date

Approved - Unit Superintendent

d. SOP is Cancelled

Shift Supervisor/Shift Foreman

Date

KJ Toole 5-23-79

Procedure for Recirculation / Operational Test of Long Term OSTB "3"

1.0 Reference

- 1.1 Refer to Flow Diagram MDAI REV 12 "1-B"
- 1.2 Refer to FUI and Condensate BAE QWS 2015
- 1.3 Refer to Secondary Closed Cooling Water - BAE QWS 2018

2.0 Limits and Precautions

2.1 Equipment

- 2.1.1 Do not operate LTR-P-1 without minimum recirc flow 100 gpm (recirc valve open)
- 2.1.2 Keep surge tank pressurized to 100 psig
- 2.1.3 Keep surge tank level $\frac{1}{2}$ full (27 inches) and definitely not below 9" surge tank
- 2.1.4 Have connection in drain piping of surge tank for condensate pump discharge for make-up if required.

2.2 Administrative

- 2.2.1 Have Secondary Service System Available and Control by Secondary Closed

3.0 Prerequisite

- 3.1 Have Secondary Power System in Service
- 3.2 Have Secondary Closed System in Service
- 3.3 Long Term "B" Valve Line-up as per Appendix 1
- 3.4 Have Long Term "B" system filled & vented
- 3.5 Have surge tank $\frac{1}{2}$ full and under 100 psig N₂
- 3.6 Notify Control Room before starting. Indicate they should be monitoring the parameters covered by this procedure

H.1 Start-Up

- 4.1.1 Open V135 and pressure gauge tank to 100 psig 11a
- 4.1.2 Verify sewage tank $\frac{1}{2}$ full (x27m)
- 4.1.3 Verify valve done-up or in Appendix I and flow diagram

POST REVIS

- 4.1.4 Apply cooling water to LTR P-1
- 4.1.5 Verify P-1 recirculation valve open (E-111)
- 4.1.6 Verify V15 $\frac{1}{2}$ closed and V18 open
- 4.1.7 Start LTR P-1

4.1.8 Monitor sewage tank level. Do not let it decrease below 9"

Note: It make-up is required add from sewage line down valve V197 and V200 via a line from the C

and boost pump operation

- 4.1.9 Adjust control room to monitor gas stream generator parameters and ^{gas stream} vacuum monitoring about
- 4.1.10 Position tank rate pot on sewage tank
- 4.1.11 Monitor system for leaks, excessive vibration, bearings and note temperatures etc

4.1.12 Change flow path from cooler by-pass thru cooler by opening V15 and closing valve V18

4.1.13 Begin secondary service flow to heat exchanger if required by daily opening LTR V21 and V22

TB-3C



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1 of 3

TESTING DATA OF PIPING SYSTEMS

VALVE LINE UP CHECK LIST

LTB SYSTEM

VALVE NO.	OPEN	CLOSE	LINE UP CHECKED BY	VALVE NO.	OPEN	CLOSE	LINE UP CHECKED BY
DIFFUSER SYSTEM U1185		X		U25	X		
U1232		X		U206	X		
U233		X		U203		X	
DR. 1057		X		U210		X	
U110	X			U207		X	
U154	X			U209		X	
U183	X			U138		X	
U152	X			U139		X	
U171	X			U140		X	
U205	X			L U141		X	
U155		X		U134		X	
U187		X		U135		X	
U149	X			U132		X	
U201	X			U133		X	
U190	X			U15		X	
N ₂ ↑ U191	X			U200		X	
Sanctus U197		X		U26	X		
U202		X		U27	X		
U26	X			U31		X	
I U27	X			U32		X	
U31		X		U35		X	
U32		X		L U37	X		
				L U39	X		
				U38		X	
				L U42		X	

TESTING DATA OF PIPING SYSTEMS

VALVE LINE UP CHECK LIST

VALVE NO.	OPEN	CLOSE	LINE UP CHECKED BY	VALVE NO.	OPEN	CLOSE	LINE UP CHECKED BY
U43		X		<i>isolate U43 U44 U45</i> U54		X	
U12	X	\		U41	X		
U10		X		U36		X	
U13		X		U37		X	
U8	X			<i>isolate flow</i> U209		X	
U4A		X		U44	X		
U4B		X		<i>isolate flow</i> U144		X	
U5A		X		U145		X	
U5B		X		U146		X	
U77		X		I U147		X	
U76		X		<i>isolate flow</i> U30		X	
U115		X		U33		X	
U116		X		U24		X	
U3		X		I U53		X	
U1		X		U54	X		
U2		X		<i>isolate flow</i> F-U11	X		
M3U7B		X		U110	X		
Turb Stop		X		U112	X		
<i>isolate flow</i> U155	X			I U85	X		
U157	X			<i>isolate flow</i> U42	X		

TESTING DATA OF PIPING SYSTEMSVALVE LINE UP CHECK LIST

VALVE NO.	OPEN	CLOSE	LINE UP CHECKED BY	VALVE NO.	OPEN	CLOSE	LINE UP CHECKED BY
U49	X			U142		Y	
U33A		Y		U143		X	
U33B		X					
U34A		Y					
U34B		Y					
U46		X					
U47		X					
U51		Y					
U52		X					
U61		Y					
U62		X					
<small>circumferential</small> U55		X					
U79		X					
<small>To drain</small> U211		X					
U314		X					
L FCU 92		Y					
U74		X					
FW-117B		X					
FW-117B		X					
M. 3/3/55		X					

