



FLOW DIAGRAM - RECIRCULATION PUMP COOLING WATER

- NOTES:** SEE REF DWG G-191157 NUCLEAR BOILER FLOW DIAGRAM
- EQUIPMENT, VALVES AND INSTRUMENTS FOR PUMP 1B ARE TO BE SUFFIXED WITH THE LETTER "B" EXCEPT AS SHOWN.
 - ALL RECIRCULATION PUMPS INSTRUMENTS ARE TO BE PREFIXED WITH SYSTEM NO. 2-2.
 - PRESSURE INSTRUMENTS IMPULSE PIPING FOR RECIRC. PUMP 1B WILL EXIT PRIMARY CONTAINMENT THROUGH PENETRATIONS X-32E & X-32F.
 - THERMOCOUPLES A THRU J, 18, 20 (22) TO BE WIRED OUT THROUGH DRYWELL TO 7/6 JUNCTION BOX.
 - WHERE THERMOCOUPLES ARE DESIGNATED TE/A1, A2 ETC., TE/A2 IS A SPARE ELEMENT.
 - FOR INSTRUMENTS WITHOUT RACK NUMBERS SEE INSTRUMENTATION INSTALLATION DETAILS FOR MOUNTING.
 - UNLESS NOTED OTHERWISE, ALL VALVES ARE PREFIXED WITH SYS 20 IN THE NORMAL EBASCO CONVENTION.
 - RACK 25-7 LOCATED AT RHR SW B PUMP ROOM.
 - FOR RECIRC. PUMP SHAFT VIBRATION MONITORING EQUIPMENT SEE B191301 CWD 712.

LIST OF PUMP & MOTOR DISPLAY

- TE/A1, A2- THRUST BEARING UPPER FACE
- TE/B1, B2- THRUST BEARING LOWER FACE
- TE/C1, C2- UPPER GUIDE BEARING
- TE/D1, D2- MOTOR WINDING "A"
- TE/E1, E2- MOTOR WINDING "B"
- TE/F1, F2- MOTOR WINDING "C"
- TE/G1, G2- LOWER GUIDE BEARING
- TE/H- NO.2 SEAL CAVITY
- TE/J- NO.1 SEAL CAVITY
- TE/18- MOTOR COOLING WATER
- TE/20- MOTOR BEARING COOLING WTR
- TE/22- SEAL CAVITY COOLING WATER

CONNECTIONS

- 1/4" SEAL COIL HEAT EXCHANGER INLET
- 1/4" SEAL COIL HEAT EXCHANGER OUTLET
- 1/2" NO.1 SEAL CAVITY PRESSURE
- 3/4" SEAL LEAKAGE DETECTION-FS-21
- 3/4" SEAL STAGING FLOW-FS-26
- 3/4" NO.2 SEAL CAVITY PRESSURE
- 1" JACKET COOLER INLET
- 1" JACKET COOLER OUTLET
- 1" SEAL LEAKAGE DRAIN
- 1/2" SEAL LEAKAGE DRAIN

THERMOCOUPLES DISPLAYED

- TE/A1 TE/G1
- TE/B1 TE/H
- TE/C1 TE/J
- TE/D1 TE/18
- TE/E1 TE/20
- TE/F1 TE/22

FLOW INDICATORS

- FS_L17- AIR COOLER FLOW
- FS_H21- SEAL LEAKAGE DETECTION
- FS_L23- JACKET COOLING & SEAL COIL HEAT EXCHANGER
- FS_{H/L}26- SEAL STAGING FLOW



COMPONENTS SUBJECT TO AMR

- REACTOR BUILDING CLOSED COOLING WATER SYSTEM AMRM-12 (Red line)
- PRIMARY CONTAINMENT PENETRATIONS AMRM-20 (Green line)
- REACTOR COOLANT SYSTEM PRESSURE BOUNDARY AMRM-33 (Blue line)

REV	NO.	DESCRIPTION	BY	CHKD.	APPD.
16	REVISED PER	9-28-04	9-28-04	10-5-04	
15	REVISED PER	8-7-02	8-7-02	8-8-02	
ENTERGY NUCLEAR VERMONT YANKEE VERNON, VERMONT FLOW DIAGRAM RECIRCULATION PUMP COOLING WATER G-191159 SH. 5					

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
REVISIONS LRA-G-191159-SH-05-0 CAD FILE LRA-G-191159-SH-05_16.DGN PLOT FILE G-191159-SH-05_16.TIF						

THIS IS AN FSAR DRAWING

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