

8031 M-43

SIZE E

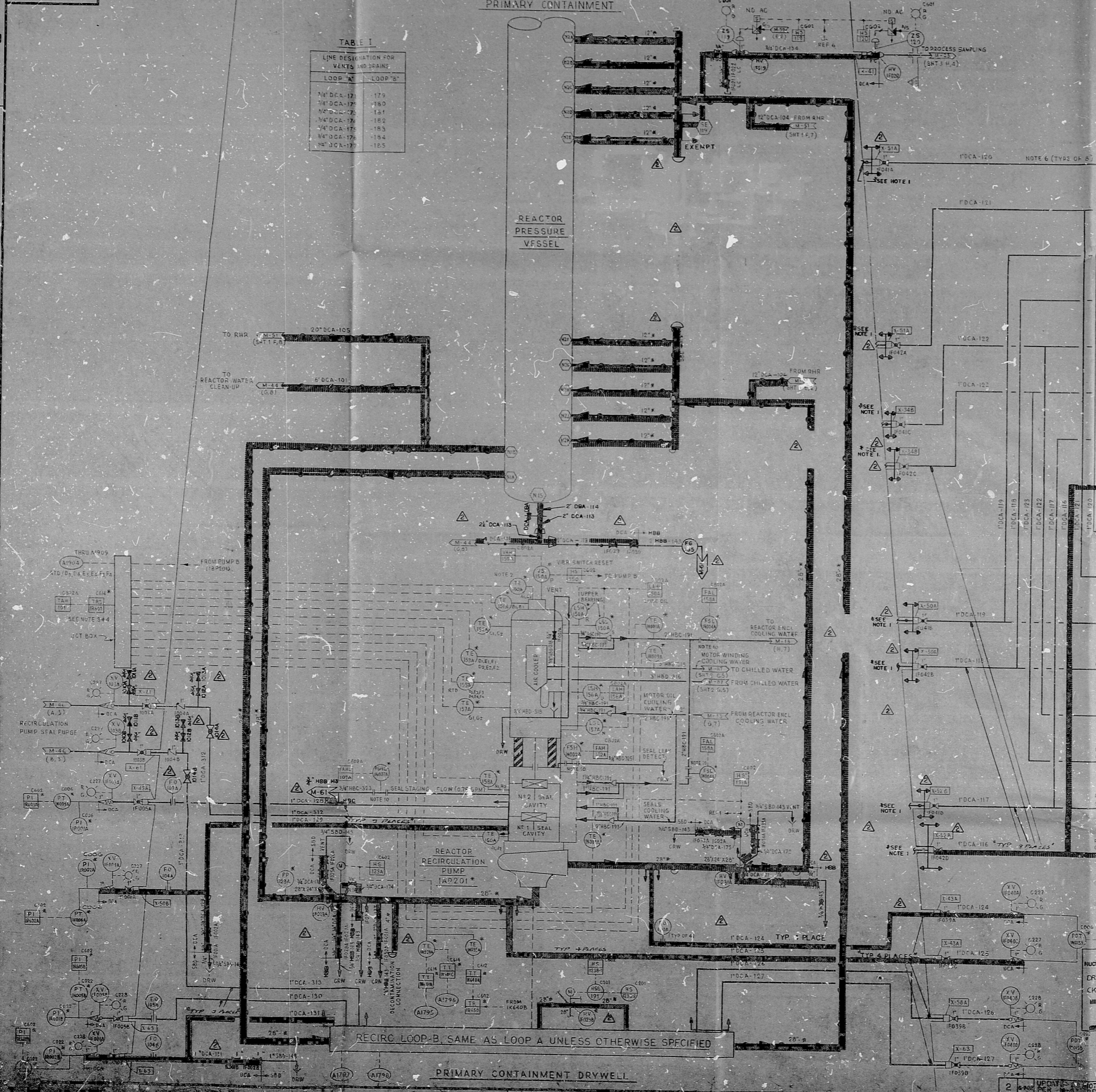
TABLE I
LINE DESIGNATION FOR VENTS AND DRAINS

LOOP	A	LOOP	B
1/4" DCA-17	-173		
1/4" DCA-17	-180		
1/4" DCA-17	-181		
1/4" DCA-17	-182		
1/4" DCA-17	-183		
1/4" DCA-17	-184		
1/4" DCA-17	-185		

REFERENCE DRAWING	BECHTEL	GE. NO.
1. REACTOR RECIRCULATION PCD		
2. RESIDUAL HEAT REMOVAL PCD		
3. NEUTRON MONITORING SYS IED	MI-332-100-011	761E241AD
4. PROCESS INST. PIPING & TUBING DESIGN SPEC	MI-461-4370-111	2A2864
5. REACTOR RECIRC SYSTEM P I 10	MI-332-100-011	761E241AD
6. NUCLEAR BOILER SYSTEM PCD		

POOR ORIGINAL

- NOTES:
- THIS IS A CLASS I SEISMIC SYSTEM EXCEPT AS NOTED. CLASS I SEISMIC CLASSIFICATION SHALL EXTEND UP TO THE FIRST WALL PENETRATION AND SHALL INCLUDE THE FIRST ANCHOR POINT IN OF 25' FROM THIS WALL.
 - WHERE THERMOCOUPLES ARE DESIGNATED TE/A₁, A₂, etc., TE/A₂ IS A SPARE ELEMENT.
 - WHERE RESISTANCE TEMPERATURE DETECTORS ARE DESIGNATED RTD/D₁, D₂, etc., RTD/D₂ IS A SPARE ELEMENT.
 - LIST OF PUMP & MOTOR INSTRUMENTS PER PUMP MOTOR UNIT.
 - 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"
 - RTD/D₁, D₂ - MOTOR WINDING "A"
 - RTD/D₃, D₄ - MOTOR WINDING "B"
 - RTD/D₅, D₆ - MOTOR WINDING "C"
 - TE/G₁, G₂ - LOWER GUIDE BEARING
 - TE/H₁, H₂ - NO. 2 SEAL CAVITY
 - TE/J₁, J₂ - NO. 1 SEAL CAVITY
 - TE/NO03A - MOTOR WINDING CHILLED COOLING WATER DISCHARGE
 - TE/NO01A - MOTOR BEARING OIL COOLING WATER DISCHARGE
 - TE/NO05A - PUMP SEAL COOLING WATER DISCHARGE
 - ALL THERMOCOUPLES & RTD'S FROM ATHWU H-1001, NO03 & NO05 ARE WIRED THROUGH WELLS TO JUNCTION BY X-LSL/A - MOTOR LOWER BEARING OIL LOW LEVEL SWITCH
 VSP - MOTOR VIBRATION SWITCH
 LSH/R - MOTOR UPPER BEARING OIL HIGH LEVEL SWITCH
 LSL/L - MOTOR LOWER BEARING OIL LOW LEVEL SWITCH
 LSH/D - MOTOR COOLING COIL DRAIN HIGH LEVEL SWITCH
 FSH/NO04A - PUMP SEAL COOLING WATER LOW FLOW SWITCH
 FSH/NO05 - PUMP SEAL COOLING WATER HIGH FLOW SWITCH
 - THE GE MPL NUMBER FOR THIS SYSTEM IS B32
 - LOCATE BRANCH CONNECTIONS AS CLOSE AS POSSIBLE AFTER GLOBE VALVE. LOCATE EXCESS FLOW CHECK VALVES AS CLOSE AS POSSIBLE AFTER THE BRANCH CONNECTION.
 - ALL STEAM LINES SHALL BE SLOPED, WHERE PRACTICAL. ALL LIQUID LINES INSIDE THE PRIMARY CONTAINMENT SHALL BE SLOPED.
 - ALL INSTRUMENT PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH REF. 4.
 - THIS BLOCK IS PART OF THE NEUTRON MONITORING SYSTEM FLOW UNIT. EACH UNIT IS GROUPED FOR ISOLATION AND SEPARATION WITHIN THE PANEL AS INDICATED.
 - FLANGE ENDS SHALL BE ADDED TO PROVIDE MEANS OF CALIBRATING THE FLOW SWITCH AND FLUSHING THE LINE.



- NOTES:
- EXEMPT INSTRUMENT CONNECTIONS ARE OMITTED FOR CLARITY.
 - THIS IS BASED ON P-101 8031-M-43 REV 14
 - ALL PIPING IS IDENTIFIED BY ISAS CODE SECT. XI (W) IWC EXEMPT.

PROC APERTURE CARD

NO.	DATE	REVISION	BY	CHKD BY	APP'D BY
1					
2					

USE THIS DOCUMENT FOR INSERVICE INSPECTION ONLY. BACKGROUND MAY NOT BE CORRECT.

1. SIGNIFICANT BECHTEL COMMENTS

0. INITIAL ISSUES INCLUDING BECHTEL COMMENTS SEE BELOW

DATE	BY	REVISION

NUCLEAR ENERGY SERVICES
 DRNBY
 CKDBY
 GROUP A
 GROUP B
 GROUP C

BECHTEL
SAN FRANCISCO

LIMERICK GENERATING STATION UNITS 1 & 2
PHILADELPHIA ELECTRIC COMPANY

19. REACTOR RECIRCULATION PUMP

8031	151-M-43	2
PA10040266		

34
22
17
11
8.5
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34
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8.5
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17
22

RIDS

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