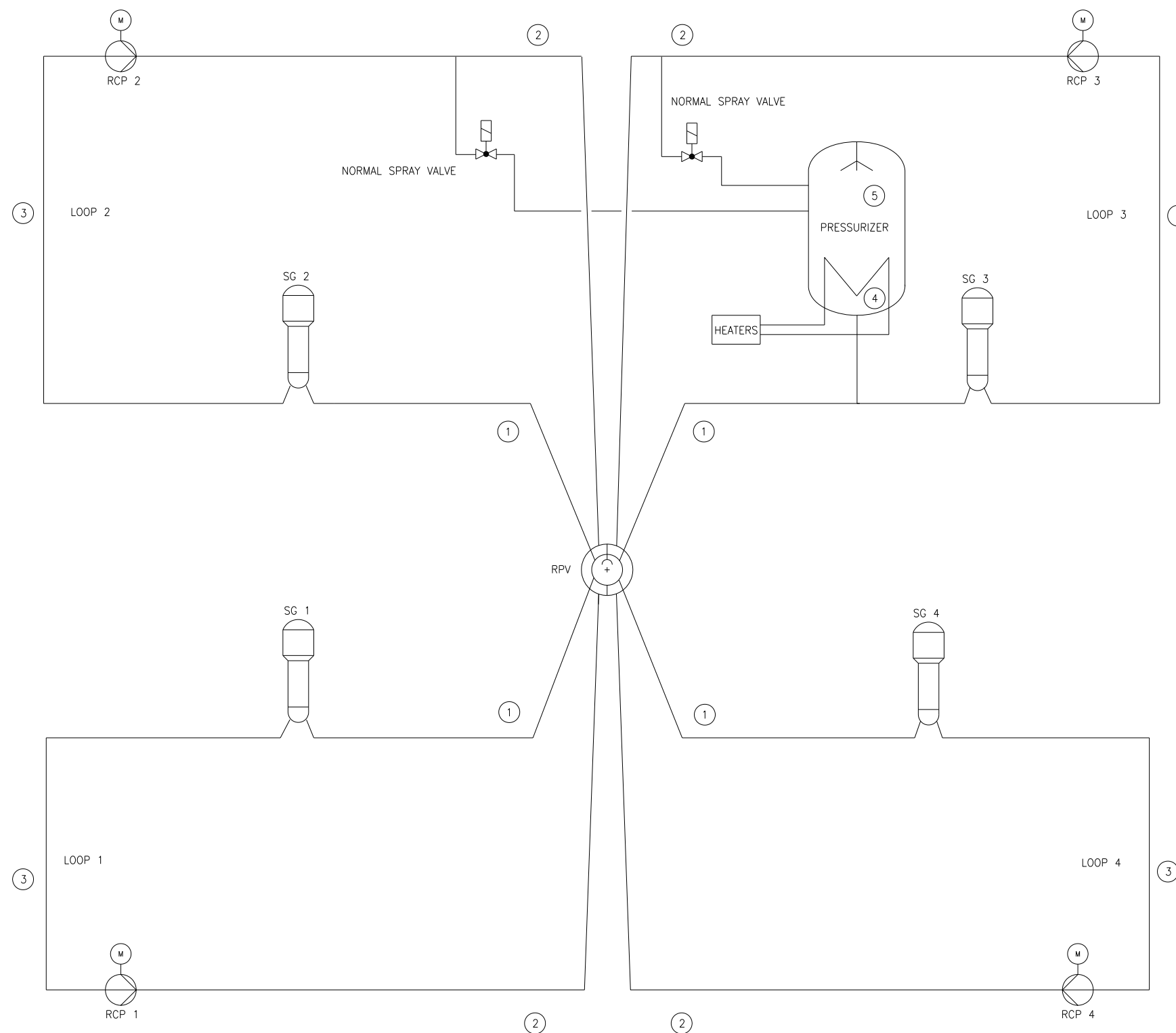


Figure 5.1-1—RCS Schematic Flow Diagram



BEST ESTIMATE CONDITIONS OF RCS AT 100% POWER

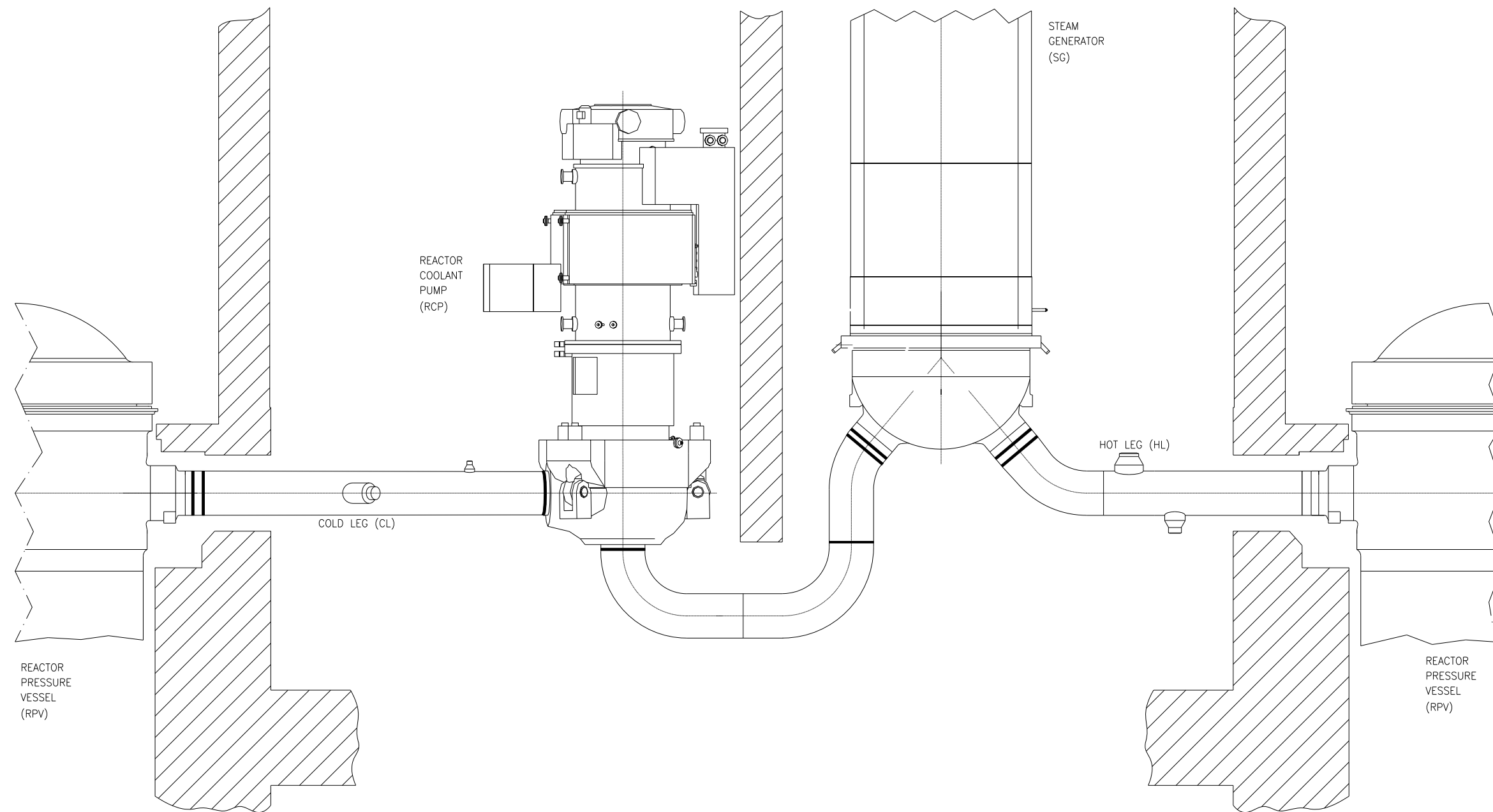
ITEM	DESCRIPTION	FLOW (gpm)	PRESSURE (psia)	TEMPERATURE (F)
1	HOT LEG	124,741	2265	624.6
2	COLD LEG	124,741	2324	563.4
3	CROSS-OVER LEG	124,741	2218	563.4
4	PZR LIQUID PHASE	-	2250	652.7
5	PZR STEAM PHASE	-	2250	652.7

JEX002 T2

Figure 5.1-2—RCS Layout

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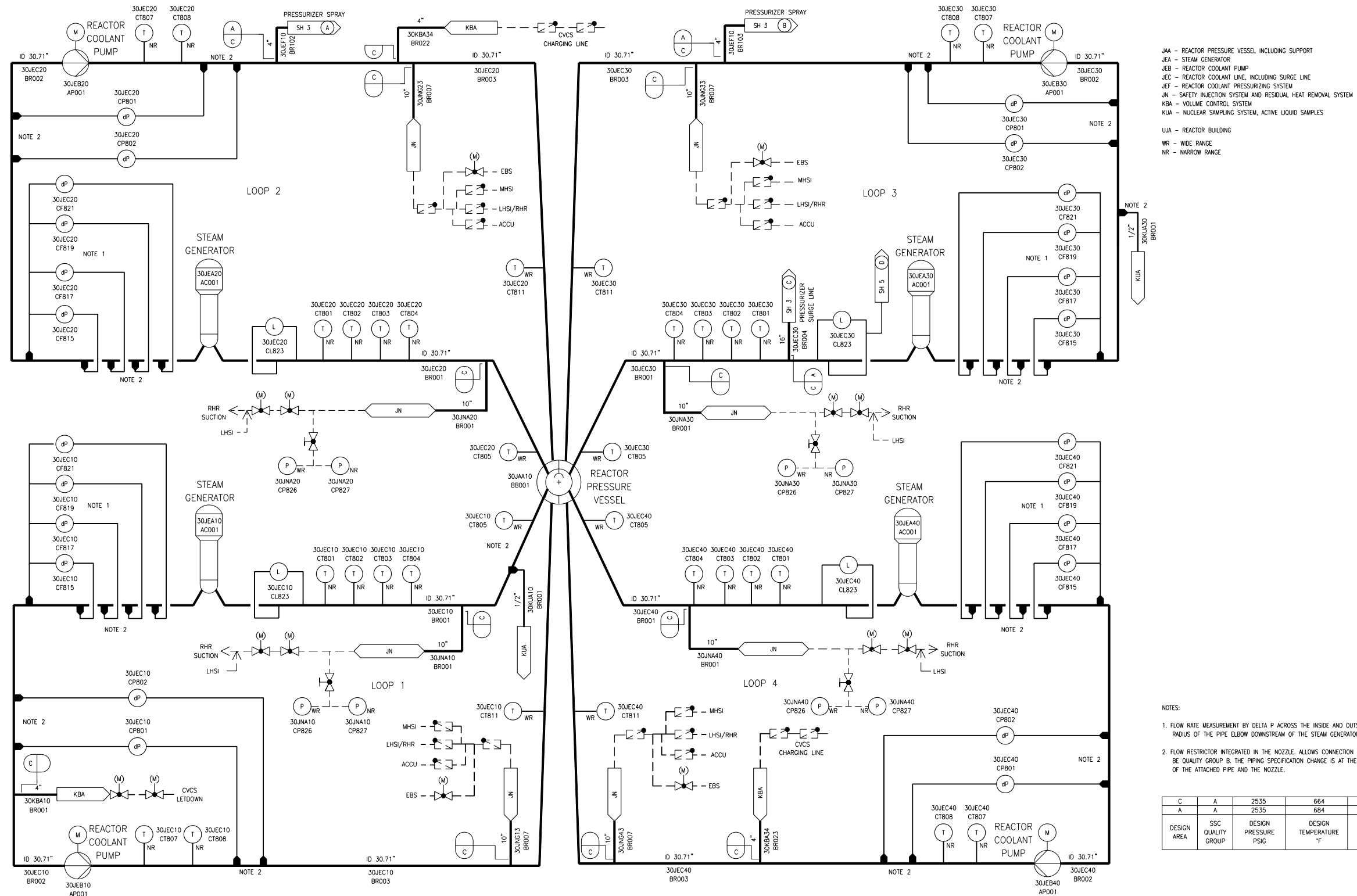
Figure 5.1-3—RCS Elevation



NOTES:  
1. COMPONENTS, WALLS & PIPING ROTATED FOR CLARITY

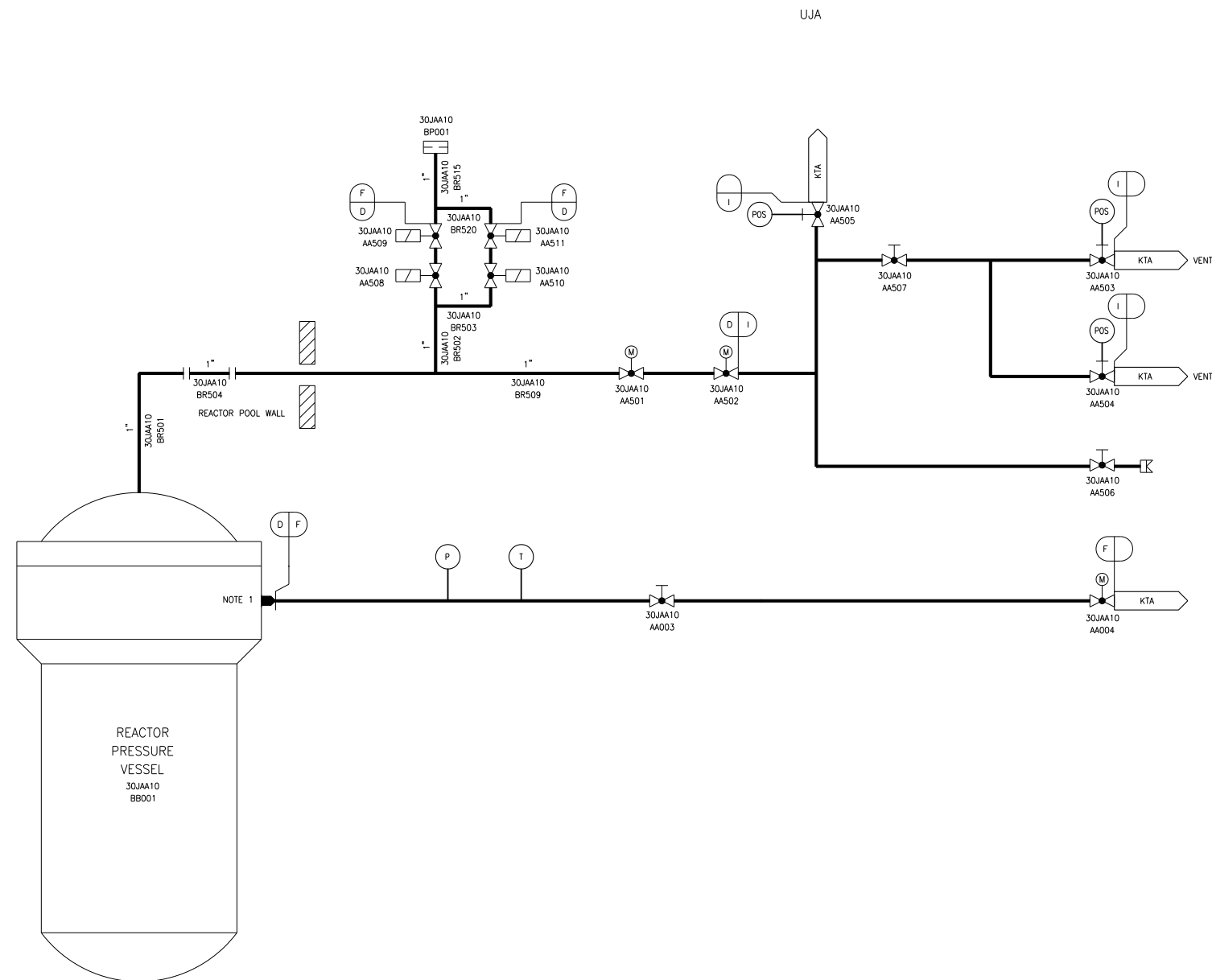
JE05 T2

Figure 5.1-4—RCS Piping and Instrumentation Diagram  
Sheet 1 of 7



JEX01T2

Figure 5.1-4—RCS Piping and Instrumentation Diagram  
Sheet 2 of 7



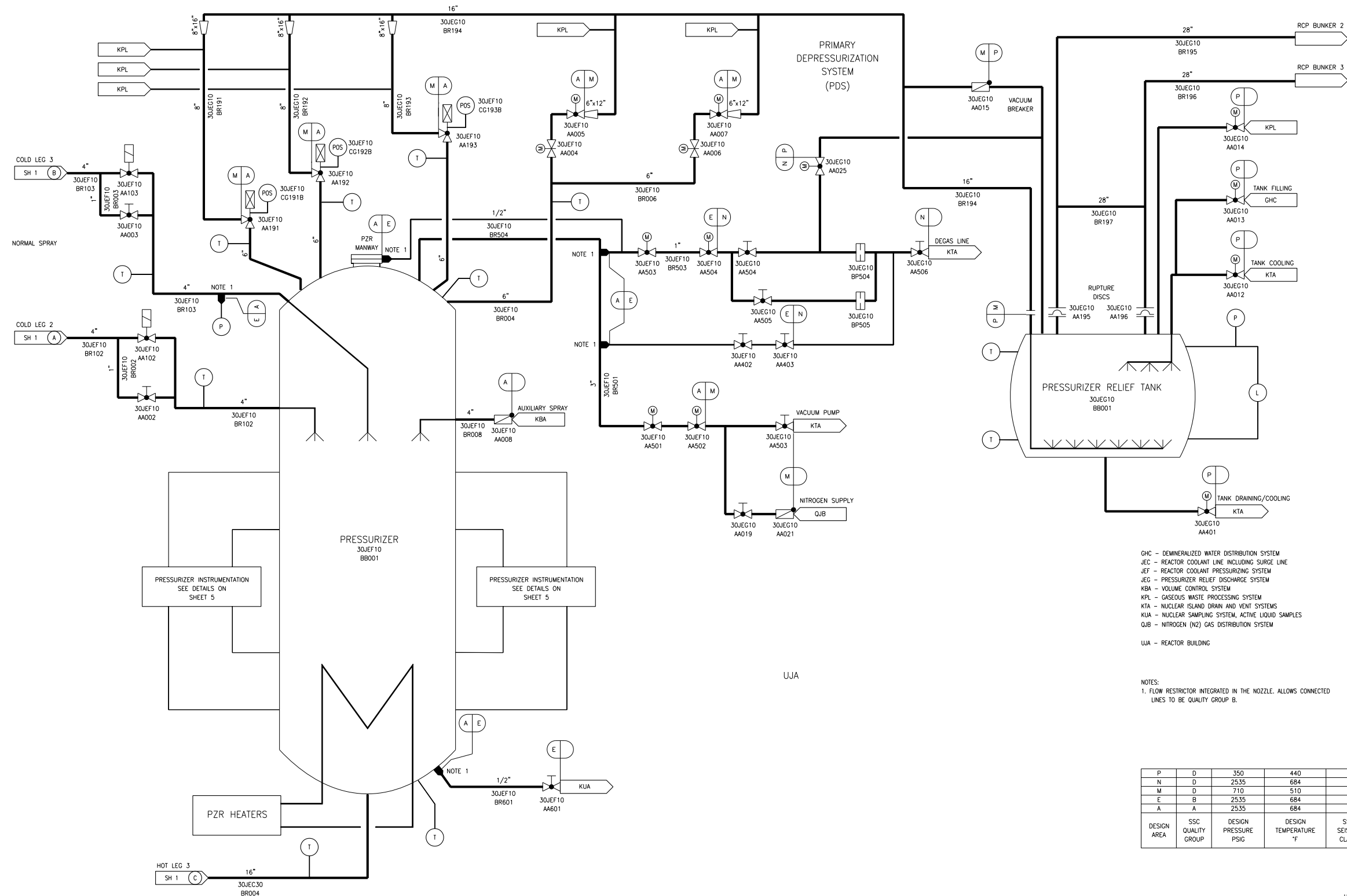
JAA - REACTOR PRESSURE VESSEL  
KTA - NUCLEAR ISLAND DRAIN AND VENT SYSTEMS - PRIMARY EFFLUENTS  
UJA - REACTOR BUILDING

NOTE:  
1. NOZZLE BETWEEN RPV INTERNAL AND EXTERNAL O-RING.  
FLOW RESTRICTOR INTEGRATED INTO THE NOZZLE.

I	D	425	215	II
F	D	2535	664	II
D	A	2535	664	I
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

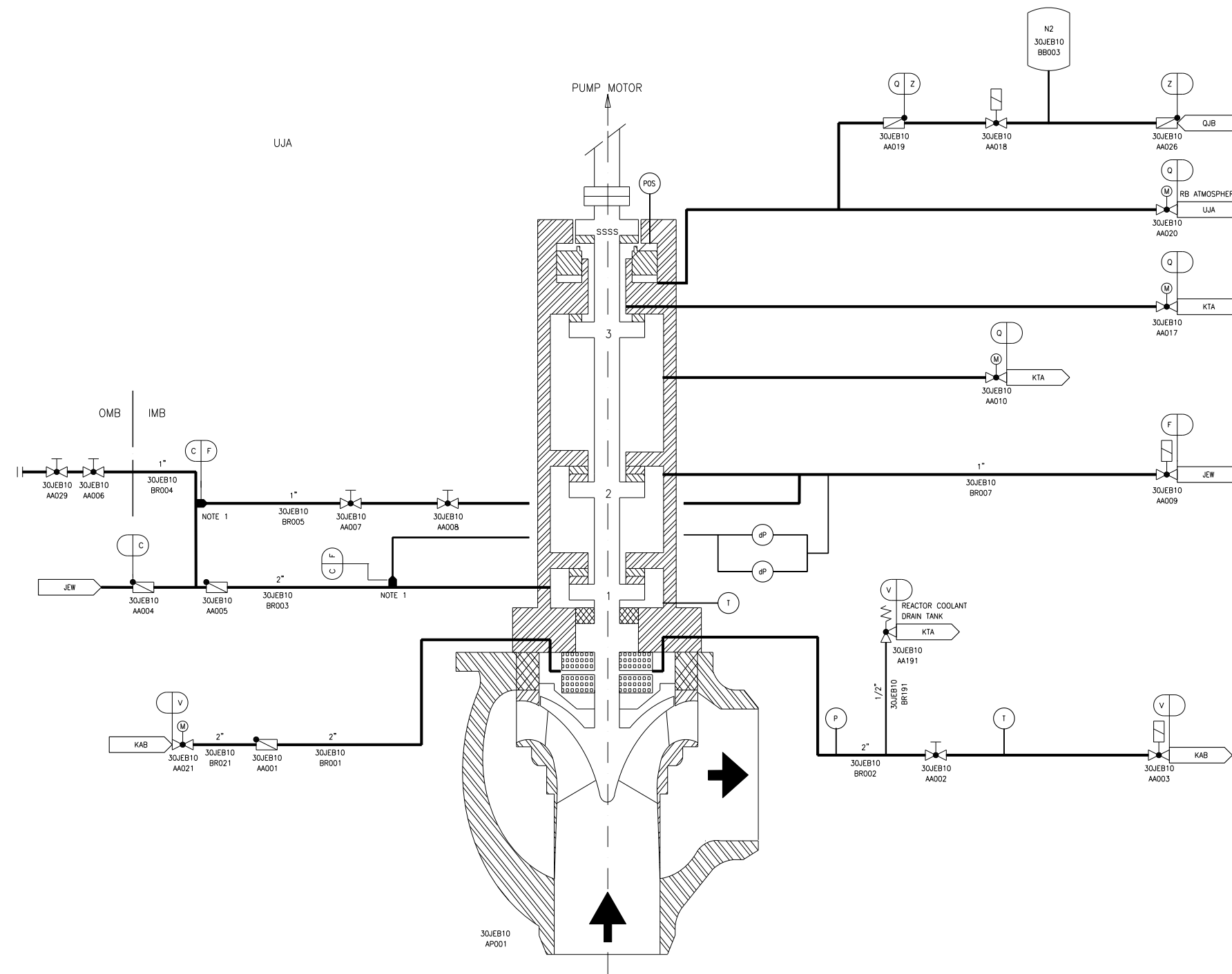
JEX02T2

Figure 5.1-4—RCS Piping and Instrumentation Diagram  
Sheet 3 of 7



JEX03T2

Figure 5.1-4—RCS Piping and Instrumentation Diagram  
Sheet 4 of 7



JEB - REACTOR COOLANT PUMP  
 JEW - REACTOR COOLANT PUMP SEAL INJECTION PORTION OF  
 CHEMICAL AND VOLUME CONTROL SYSTEM  
 KTA - NUCLEAR ISLAND DRAIN AND VENT SYSTEM - PRIMARY EFFLUENTS  
 KAB - COMPONENT COOLING WATER SYSTEM COMMON HEADER  
 QJB - NITROGEN (N2) GAS DISTRIBUTION SYSTEM  
 UJA - REACTOR BUILDING

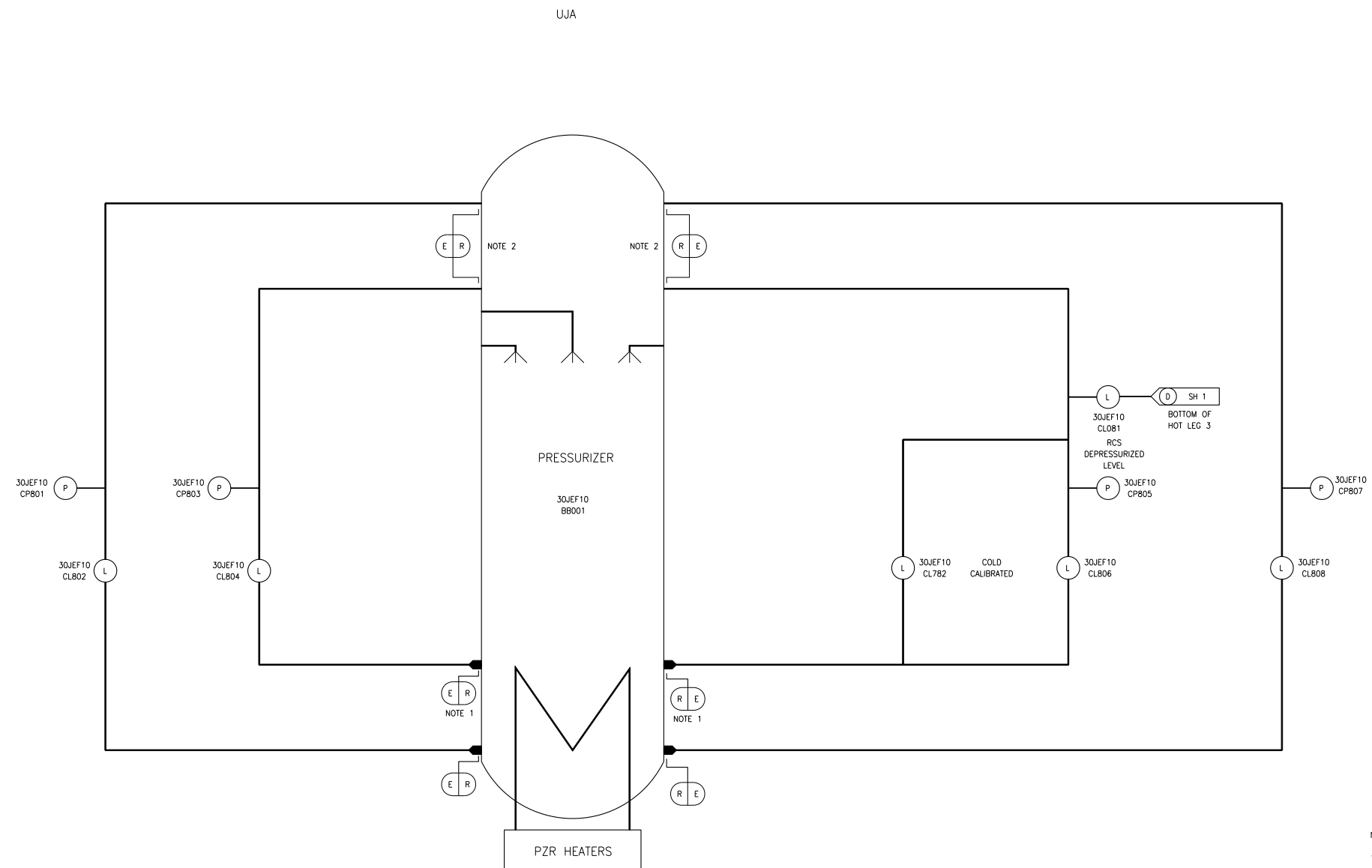
SSSS - STAND STILL SEAL SYSTEM

NOTES:  
 1. FLOW RESTRICTOR INTEGRATED IN THE NOZZLE. ALLOWS  
 CONNECTION LINES TO BE QUALITY GROUP B.

Q	D	2535	664	II
Z	D	175	140	II
F	B	3045	664	I
V	C	2535	664	I
C	A	3045	664	I
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

JEX04T2

Figure 5.1-4—RCS Piping and Instrumentation Diagram  
Sheet 5 of 7



JEF - REACTOR COOLANT PRESSURIZING SYSTEM  
UJA - REACTOR BUILDING

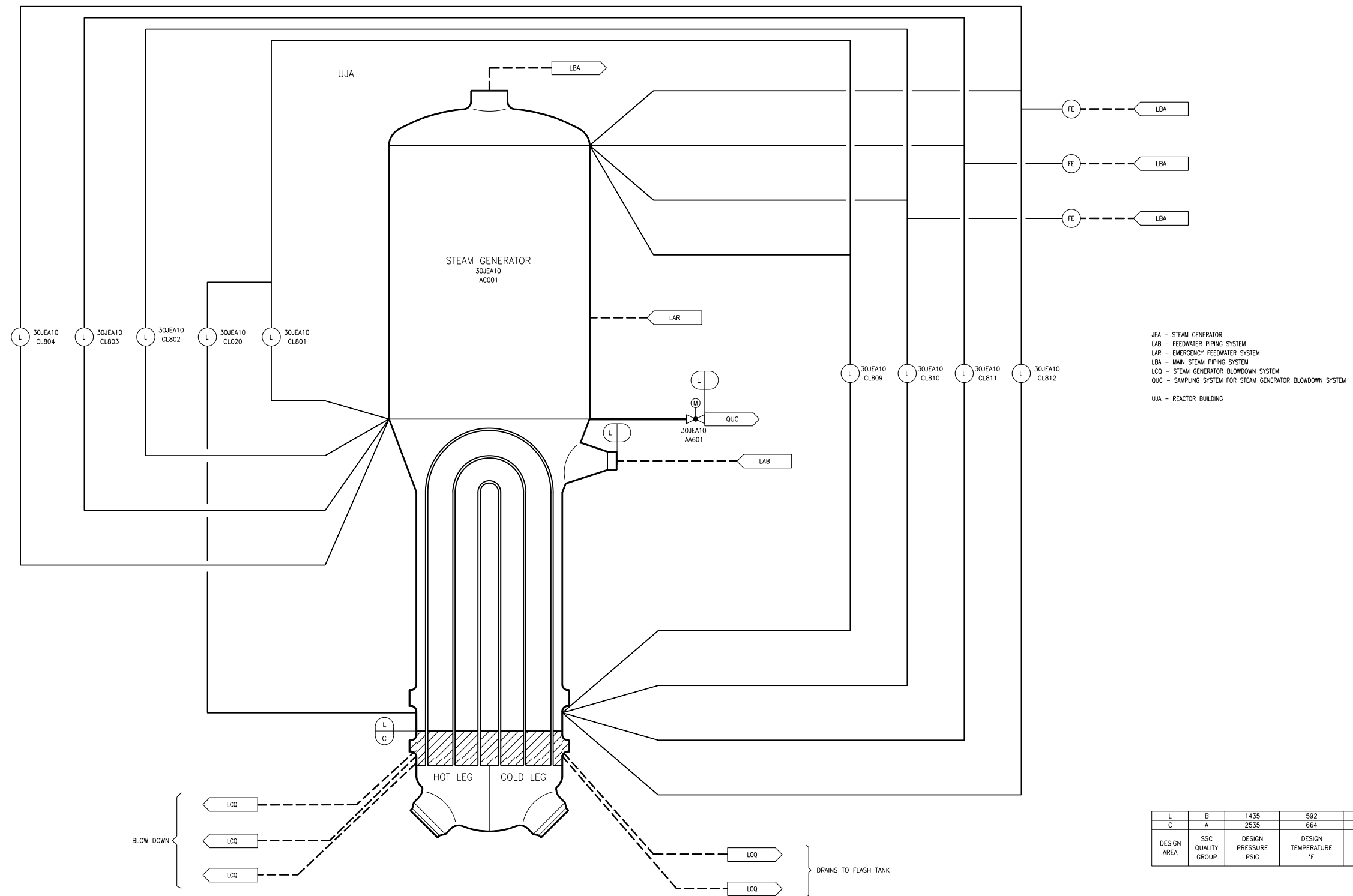
- NOTES:
1. FLOW RESTRICTOR INTEGRATED IN THE NOZZLE ALLOWS CONNECTION LINES TO BE QUALITY GROUP B.
  2. PIPES CONNECTING TO UPPER LEVEL INSTRUMENTATION TAPS ARE QUALITY GROUP B.

R	A	2535	684	I
E	B	2535	684	I
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

JEX05T2

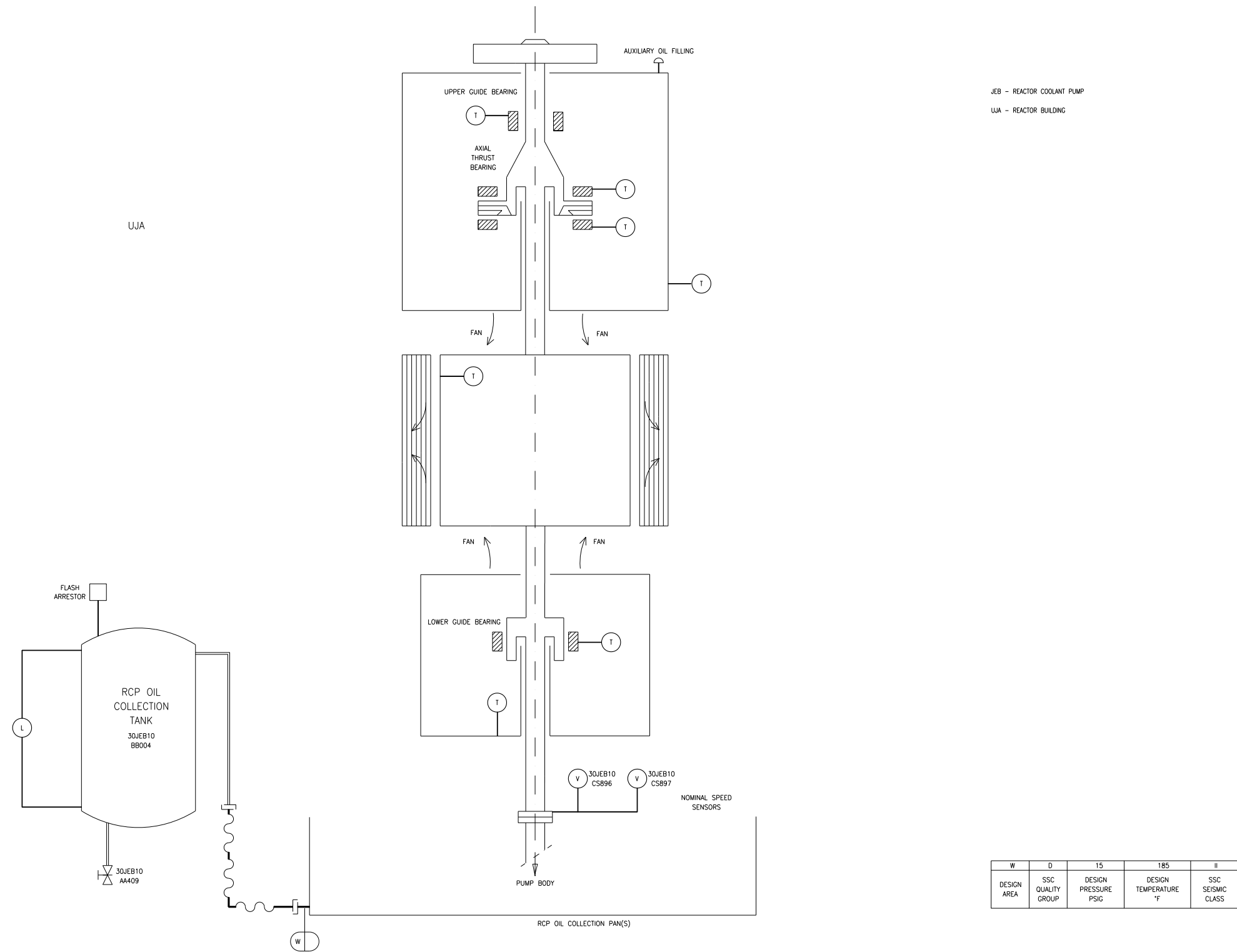


Figure 5.1-4—RCS Piping and Instrumentation Diagram  
Sheet 6 of 7



JEX06T2

Figure 5.1-4—RCS Piping and Instrumentation Diagram  
Sheet 7 of 7



JEX07T2