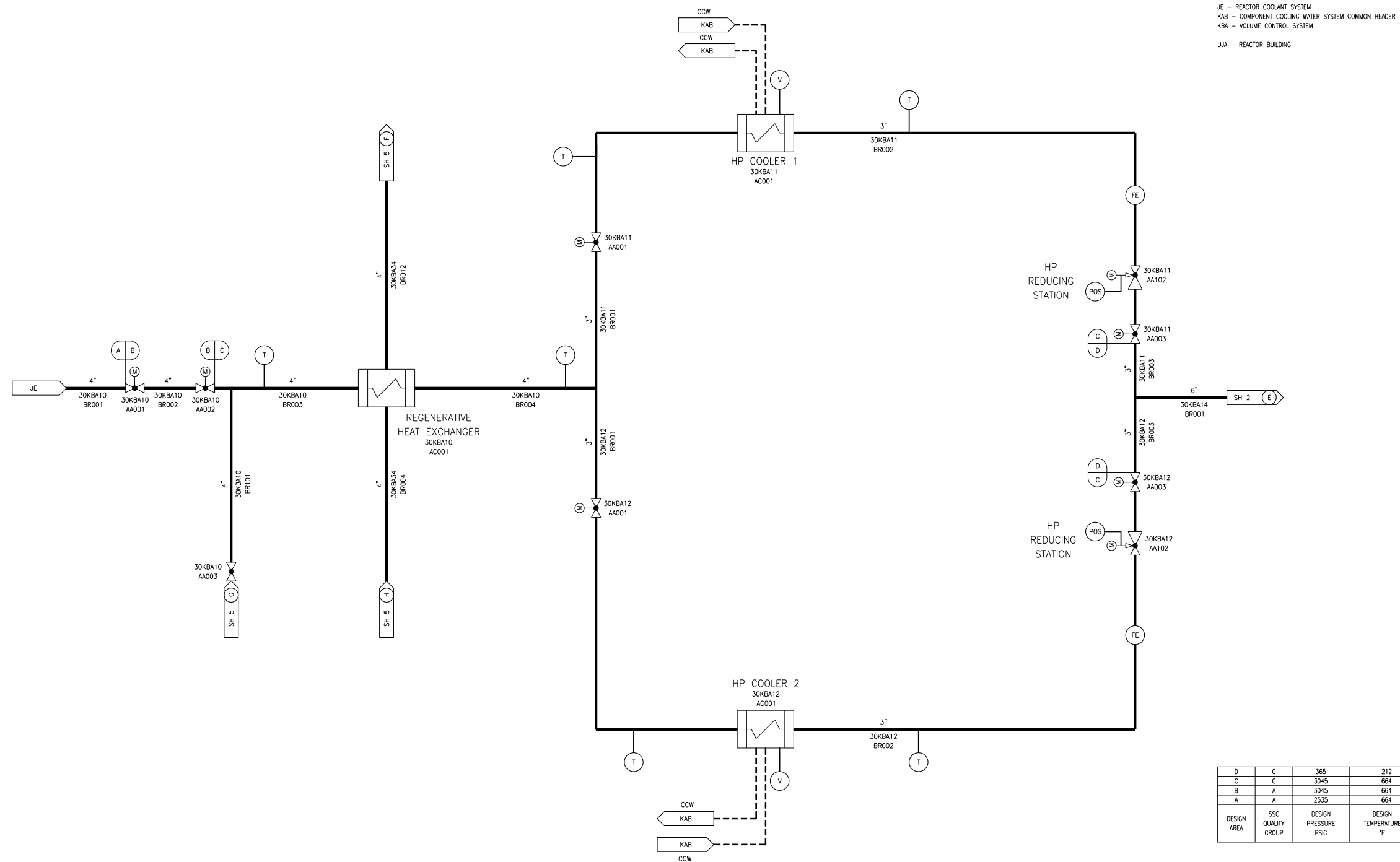
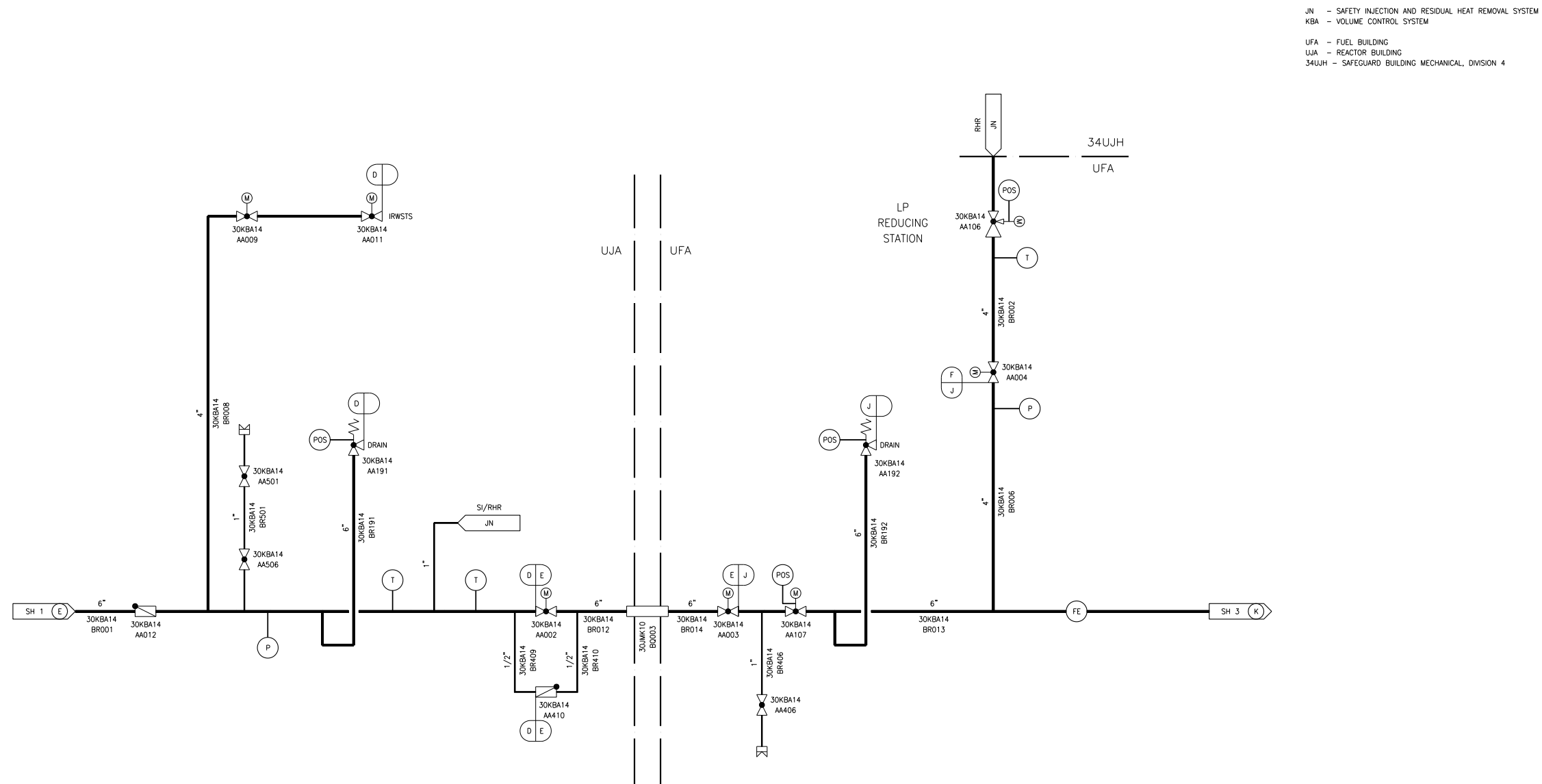


Figure 9.3.4-1—Chemical and Volume Control System  
Sheet 1 of 9



KBA01T2

Figure 9.3.4-1—Chemical and Volume Control System  
Sheet 2 of 9

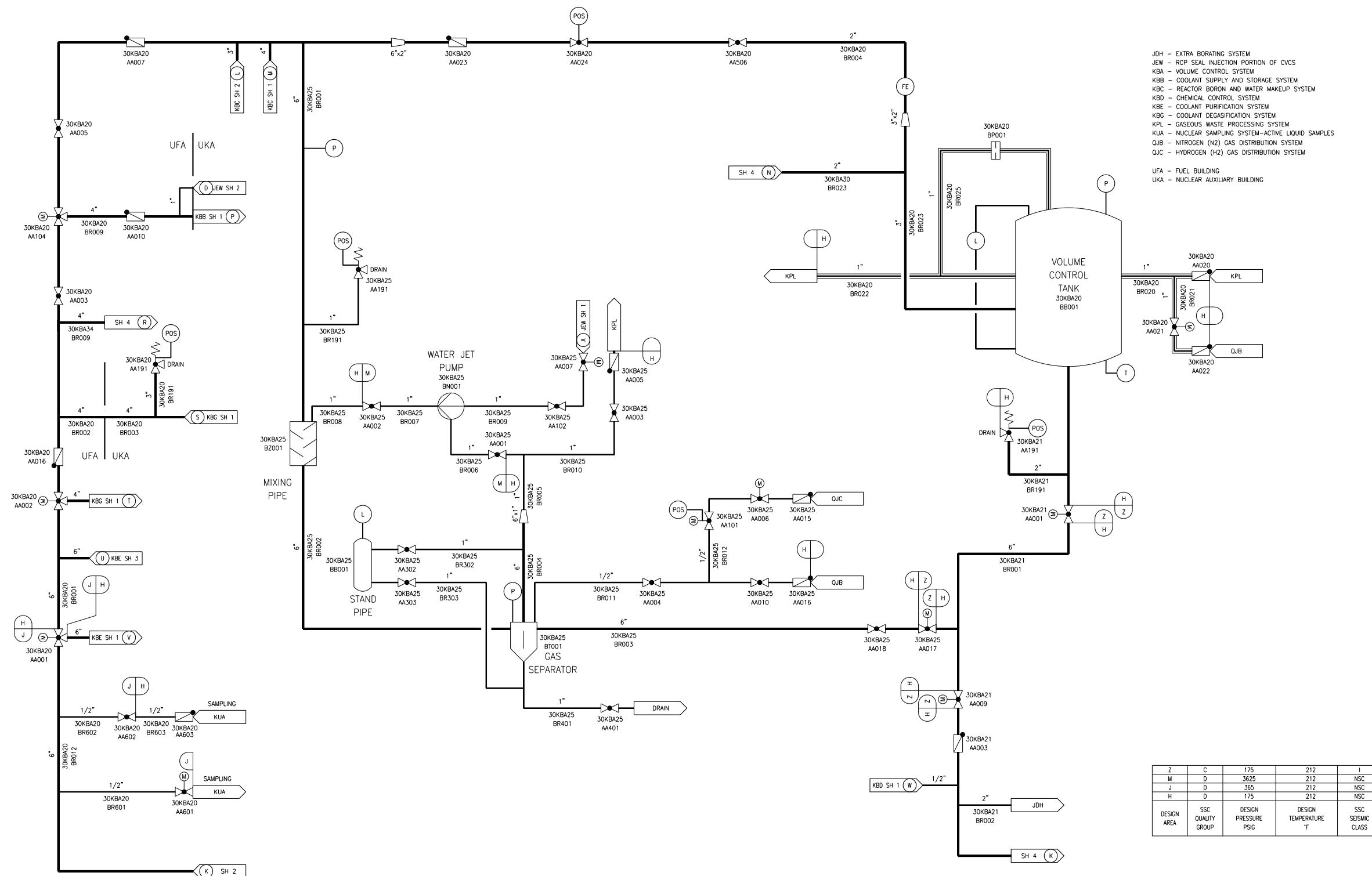


JN - SAFETY INJECTION AND RESIDUAL HEAT REMOVAL SYSTEM  
KBA - VOLUME CONTROL SYSTEM  
UFA - FUEL BUILDING  
UJA - REACTOR BUILDING  
34UJH - SAFEGUARD BUILDING MECHANICAL, DIVISION 4

J	D	365	212	NSC
F	C	1160	360	I
E	B	365	340	I
D	C	365	212	I
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

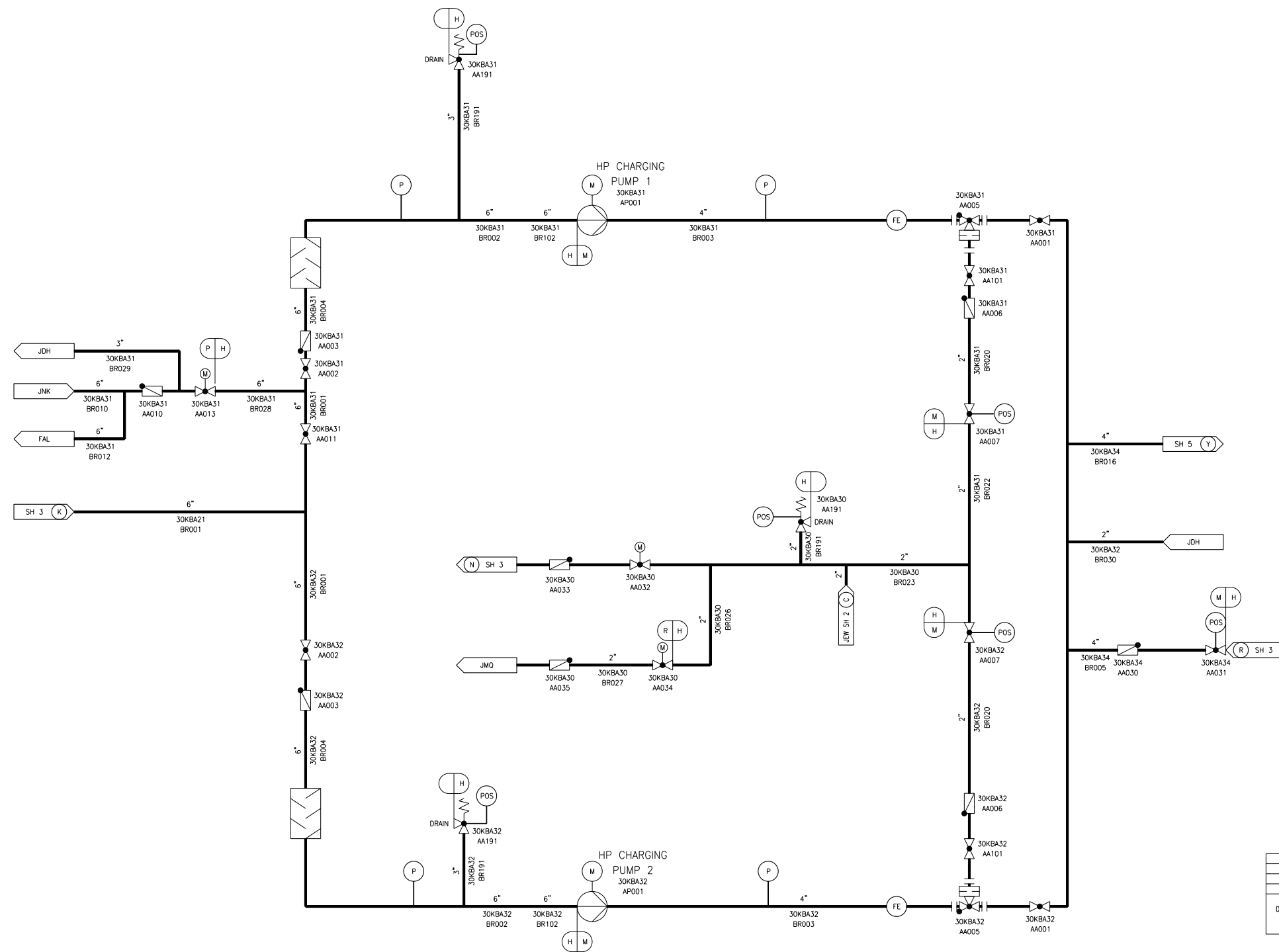
KBA02T2

Figure 9.3.4-1—Chemical and Volume Control System  
Sheet 3 of 9



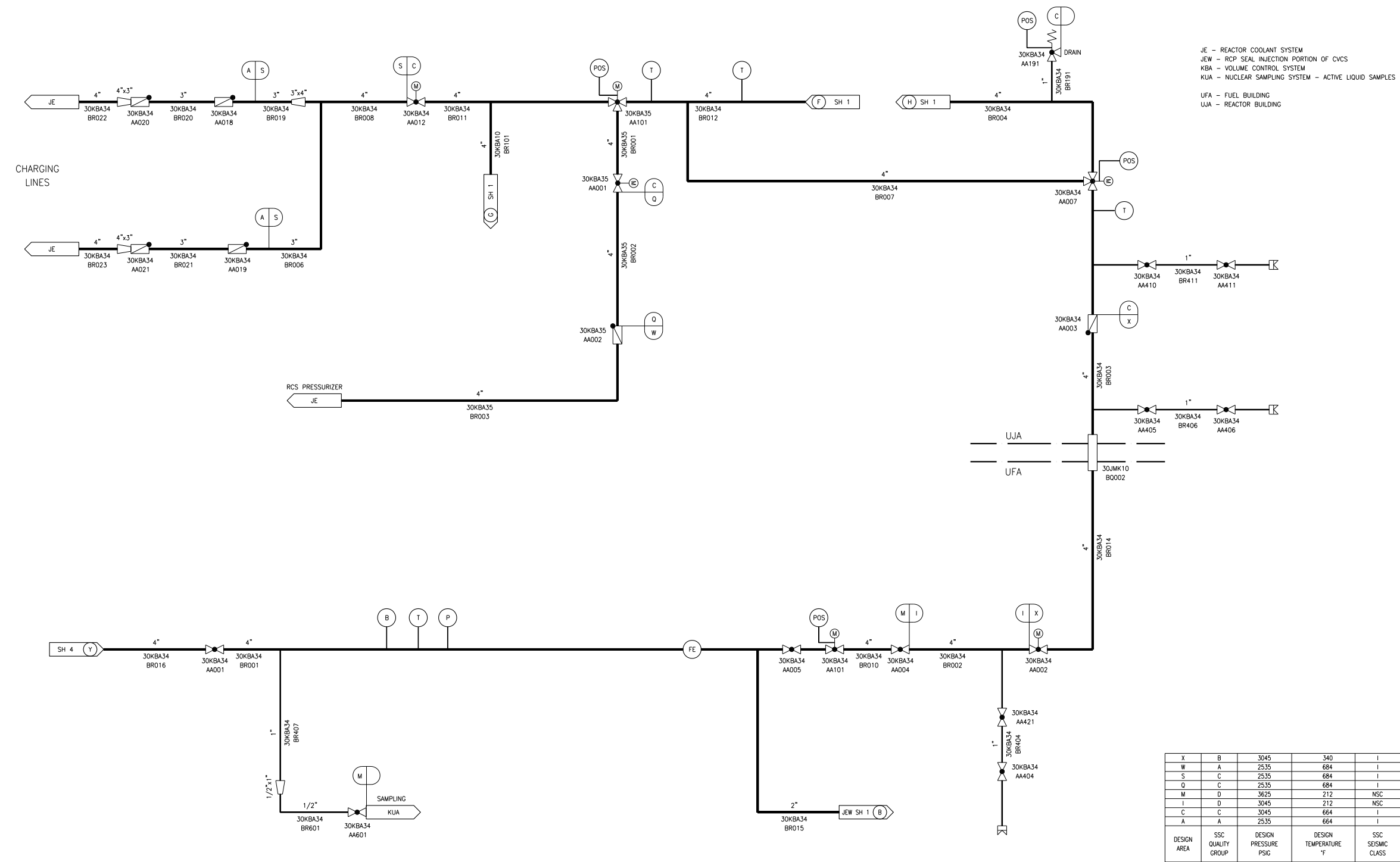
KBA03T2

Figure 9.3.4-1—Chemical and Volume Control System  
Sheet 4 of 9



KB404T2

Figure 9.3.4-1—Chemical and Volume Control System  
Sheet 5 of 9

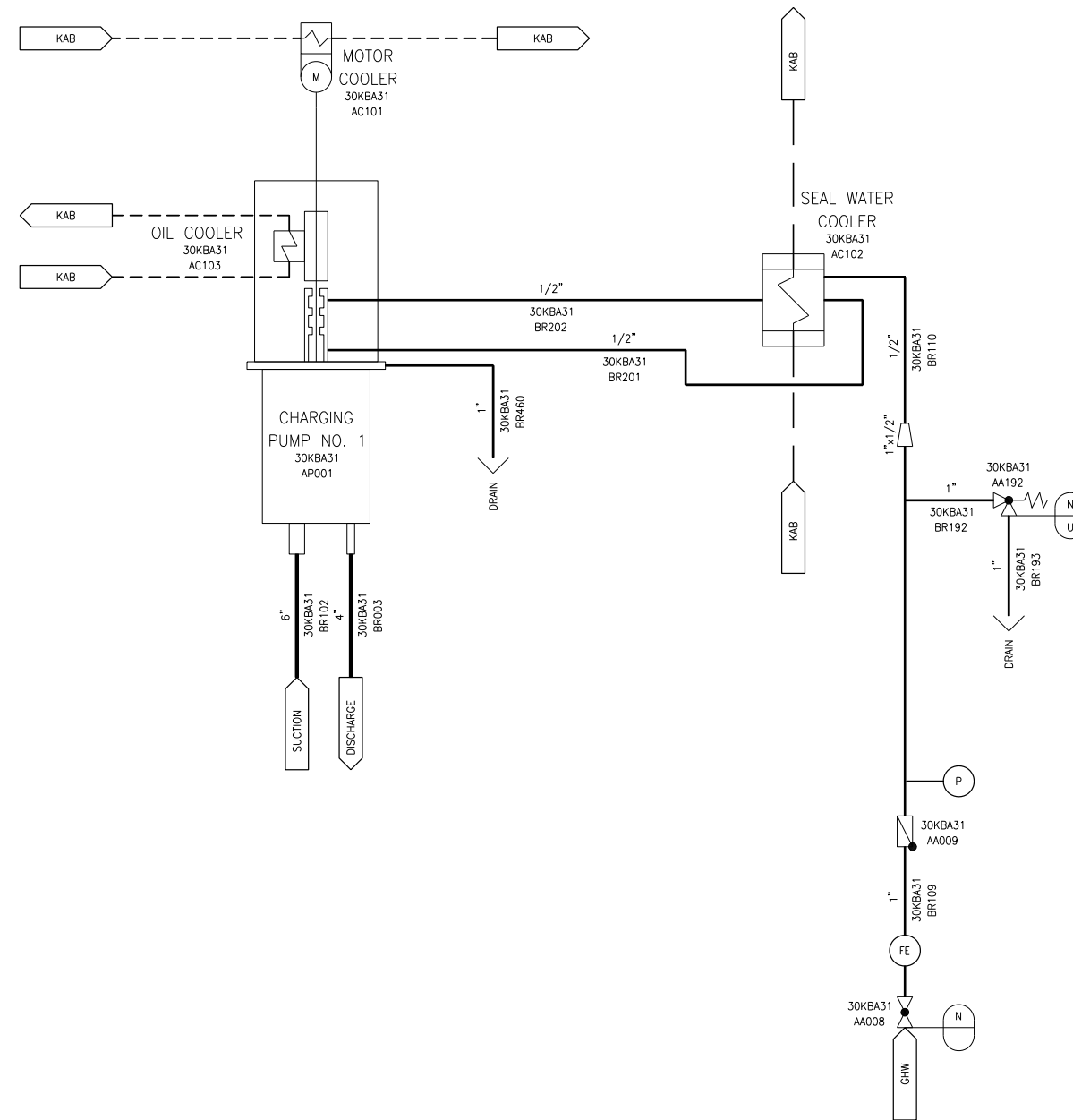


JE - REACTOR COOLANT SYSTEM  
 JEW - RCP SEAL INJECTION PORTION OF CVCS  
 KBA - VOLUME CONTROL SYSTEM  
 KUA - NUCLEAR SAMPLING SYSTEM - ACTIVE LIQUID SAMPLES  
 UFA - FUEL BUILDING  
 UJA - REACTOR BUILDING

X	B	3045	340	I
W	A	2535	684	I
S	C	2535	684	I
O	C	2535	684	I
M	D	3625	212	NSC
I	D	3045	212	NSC
C	C	3045	664	I
A	A	2535	664	I
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBA05T2

Figure 9.3.4-1—Chemical and Volume Control System  
Sheet 6 of 9



GHW - SEAL WATER SUPPLY SYSTEM  
 KAB - COMPONENT COOLING WATER SYSTEM COMMON HEADER  
 KBA - VOLUME CONTROL SYSTEM  
 UFA - FUEL BUILDING

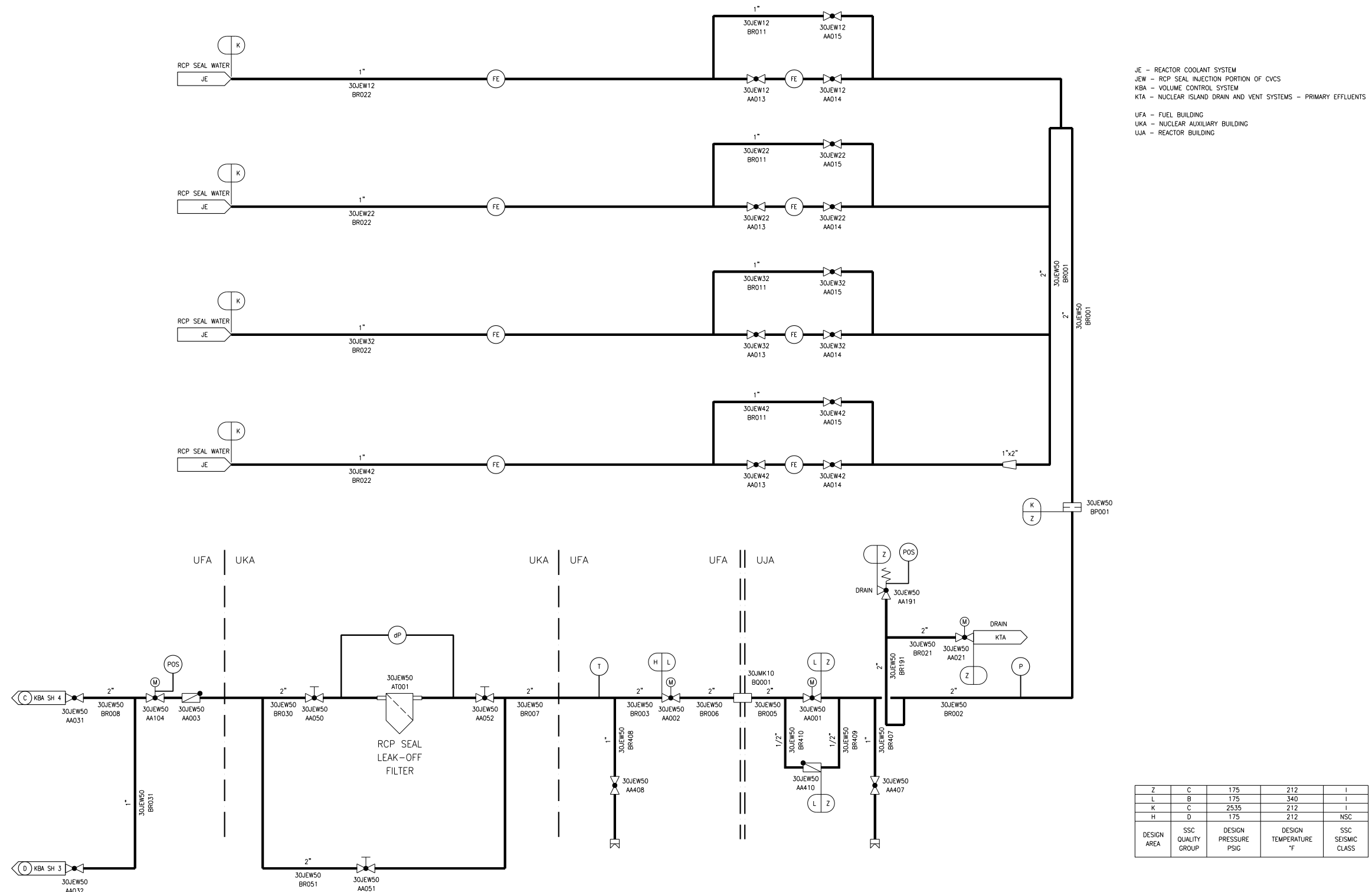
NOTE:  
 TRAIN 1 SHOWN, REPRESENTATIVE OF TRAIN 2 WITH EXCEPTIONS NOTED.

U	E	0	212	NSC
N	D	235	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

REV 001  
 KBA06T2



Figure 9.3.4-1—Chemical and Volume Control System  
Sheet 8 of 9

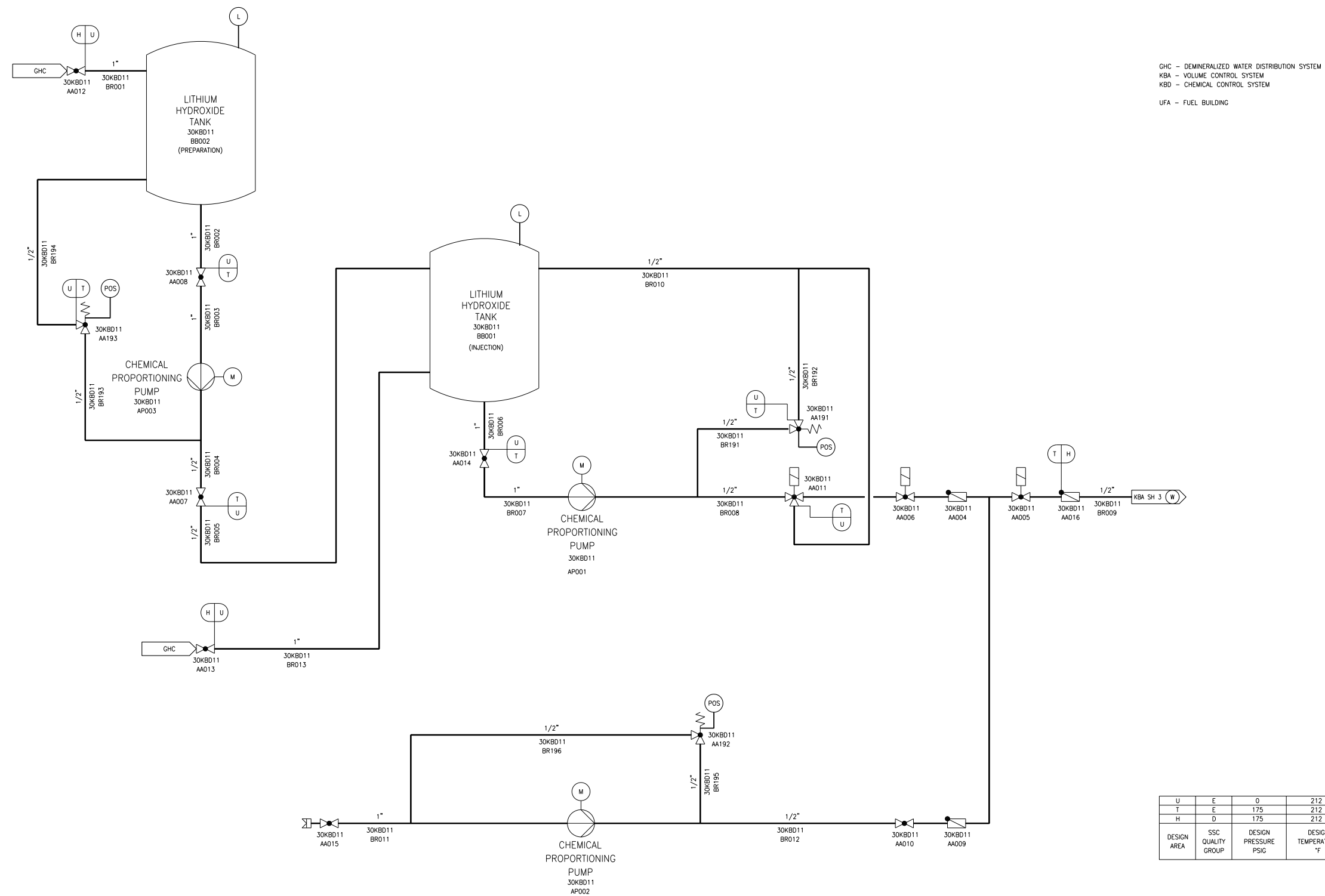


Z	C	175	212	I
L	B	175	340	I
K	C	2535	212	I
H	D	175	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

JEW02T2

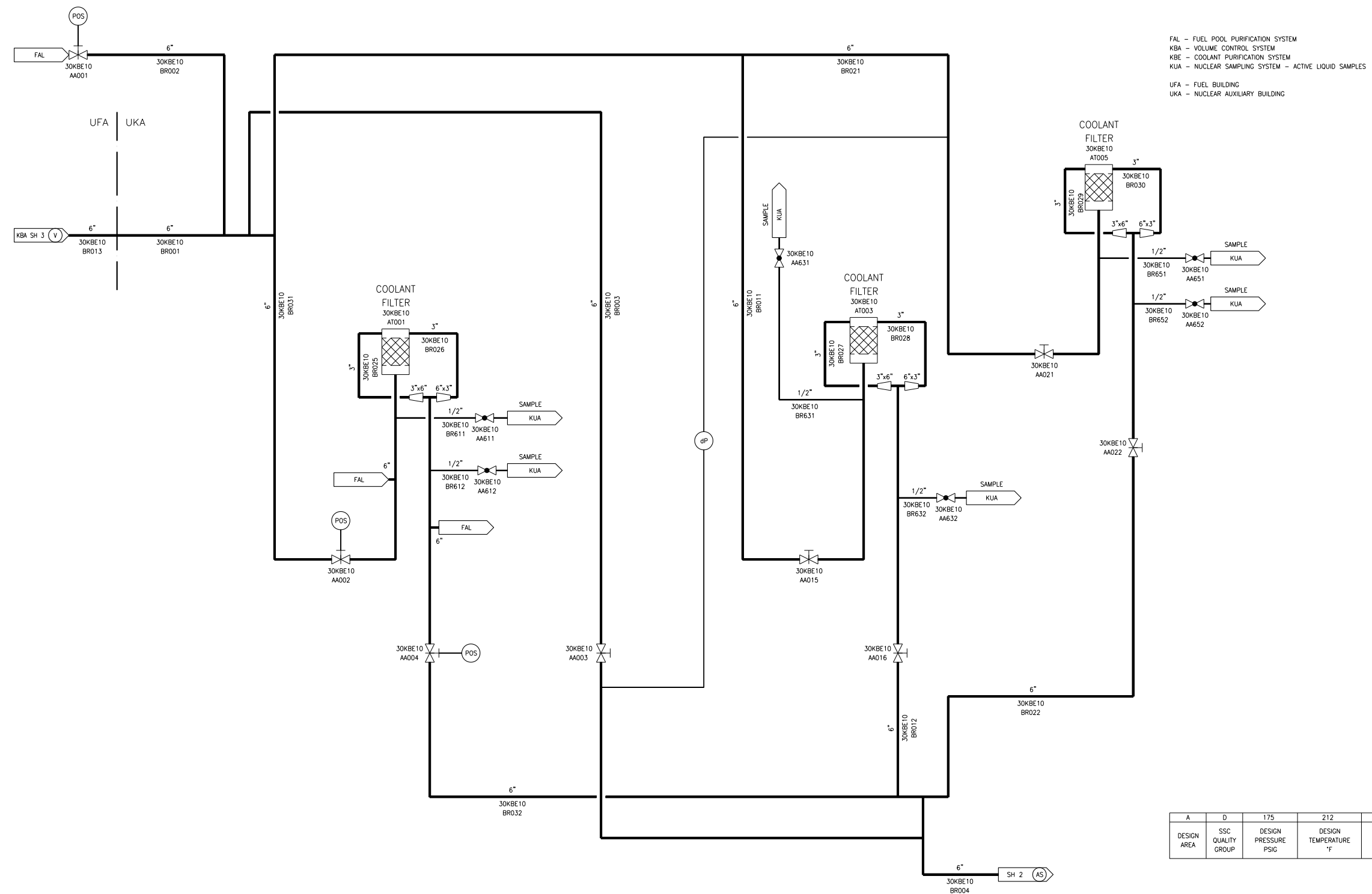


Figure 9.3.4-1—Chemical and Volume Control System  
Sheet 9 of 9



KBD01T2

Figure 9.3.4-2—Coolant Purification System  
Sheet 1 of 5

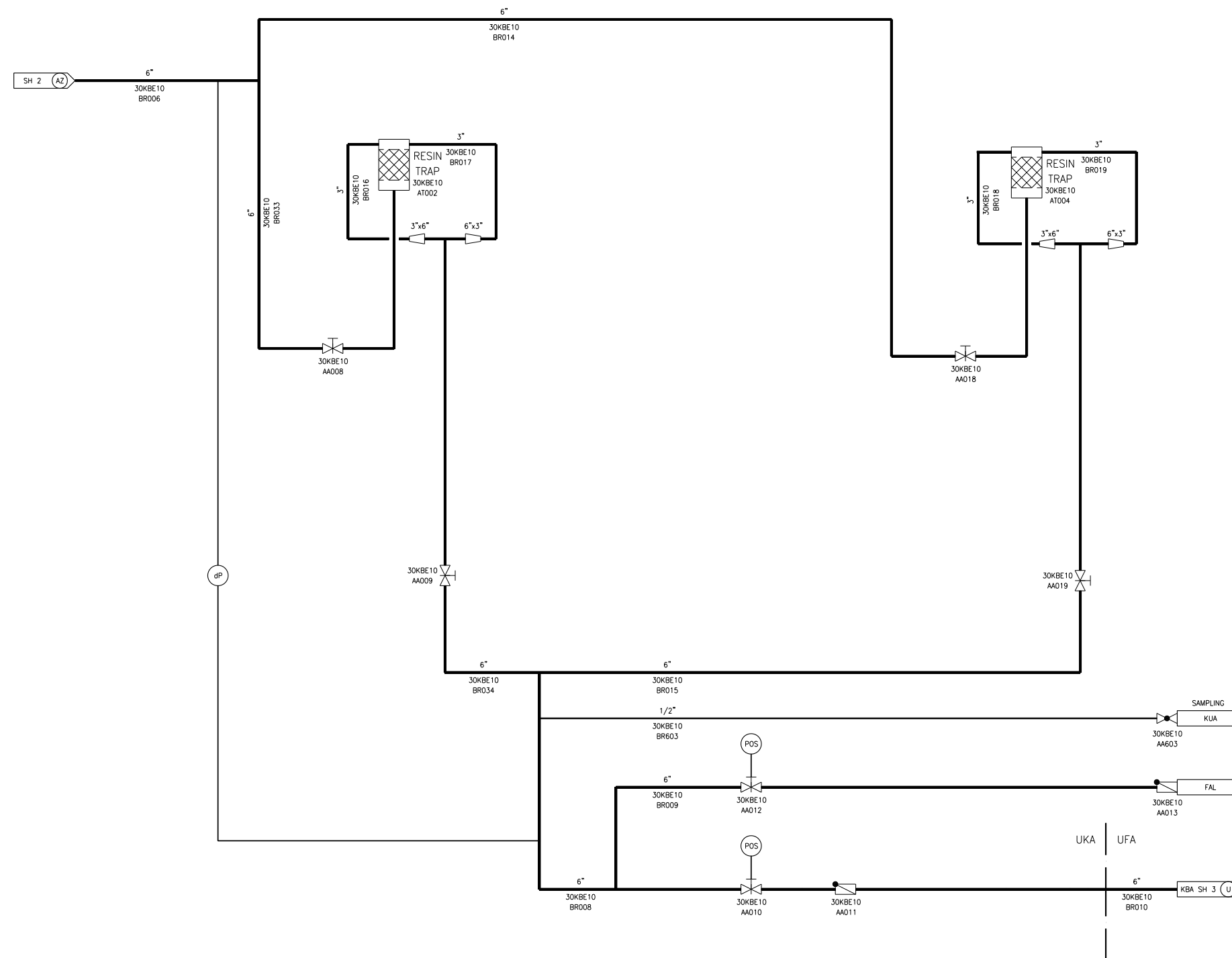


A	D	175	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBE01T2



Figure 9.3.4-2—Coolant Purification System  
Sheet 3 of 5

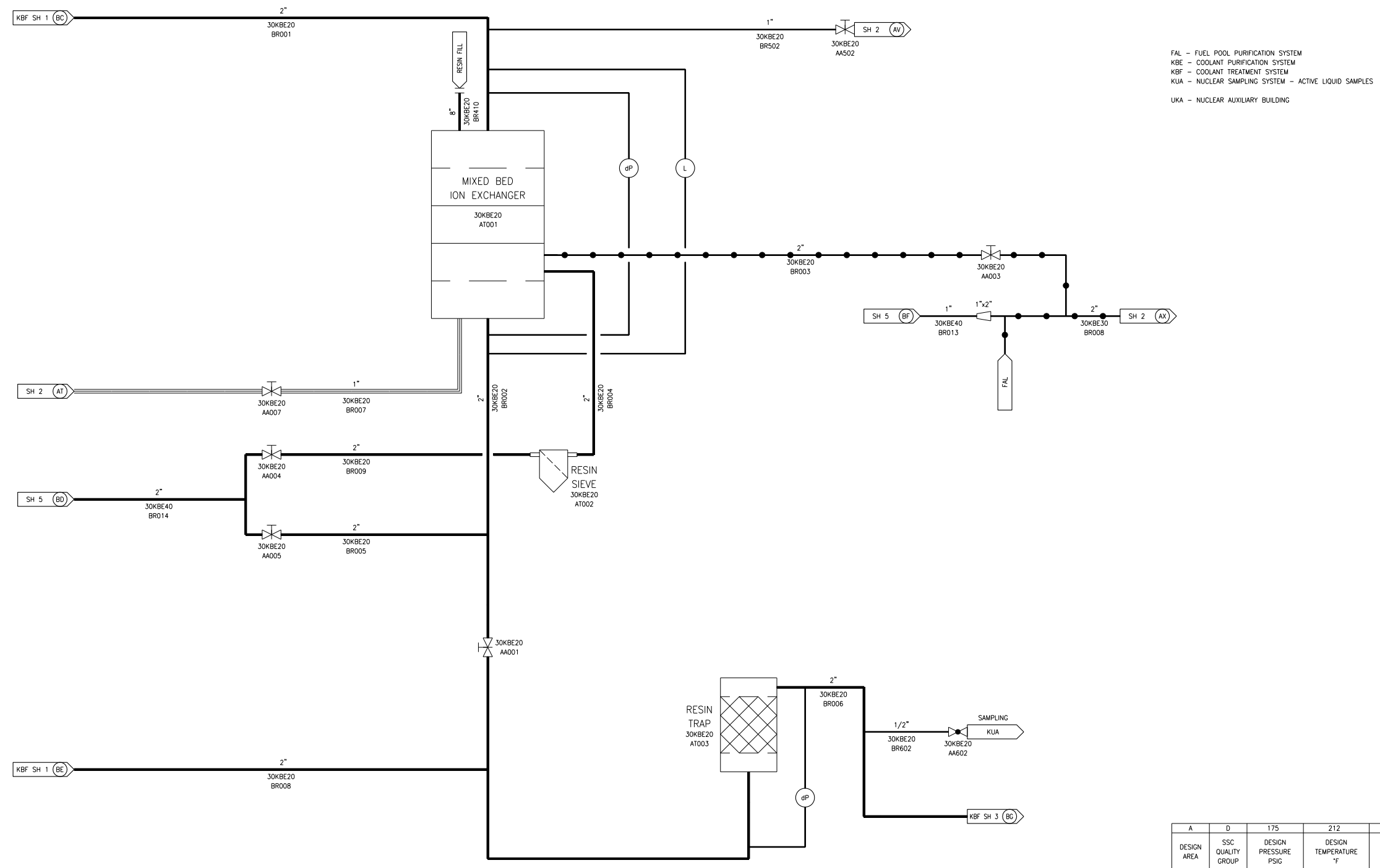


FAL - FUEL POOL PURIFICATION SYSTEM  
 KBA - VOLUME CONTROL SYSTEM  
 KBE - COOLANT PURIFICATION SYSTEM  
 KUA - NUCLEAR SAMPLING SYSTEM - ACTIVE LIQUID SAMPLES  
 UFA - FUEL BUILDING  
 UKA - NUCLEAR AUXILIARY BUILDING

A	D	175	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

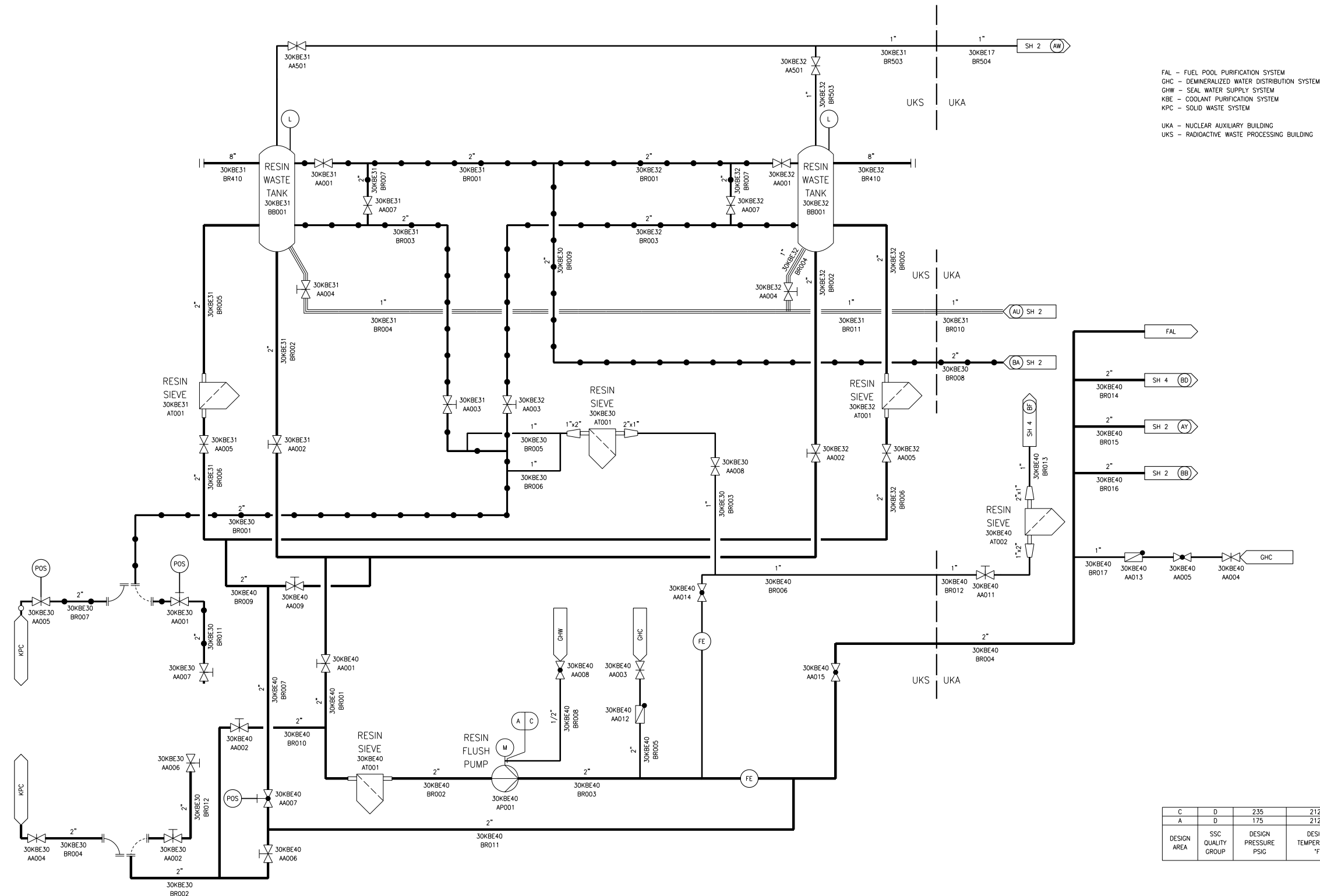
KBE03T2

Figure 9.3.4-2—Coolant Purification System  
Sheet 4 of 5



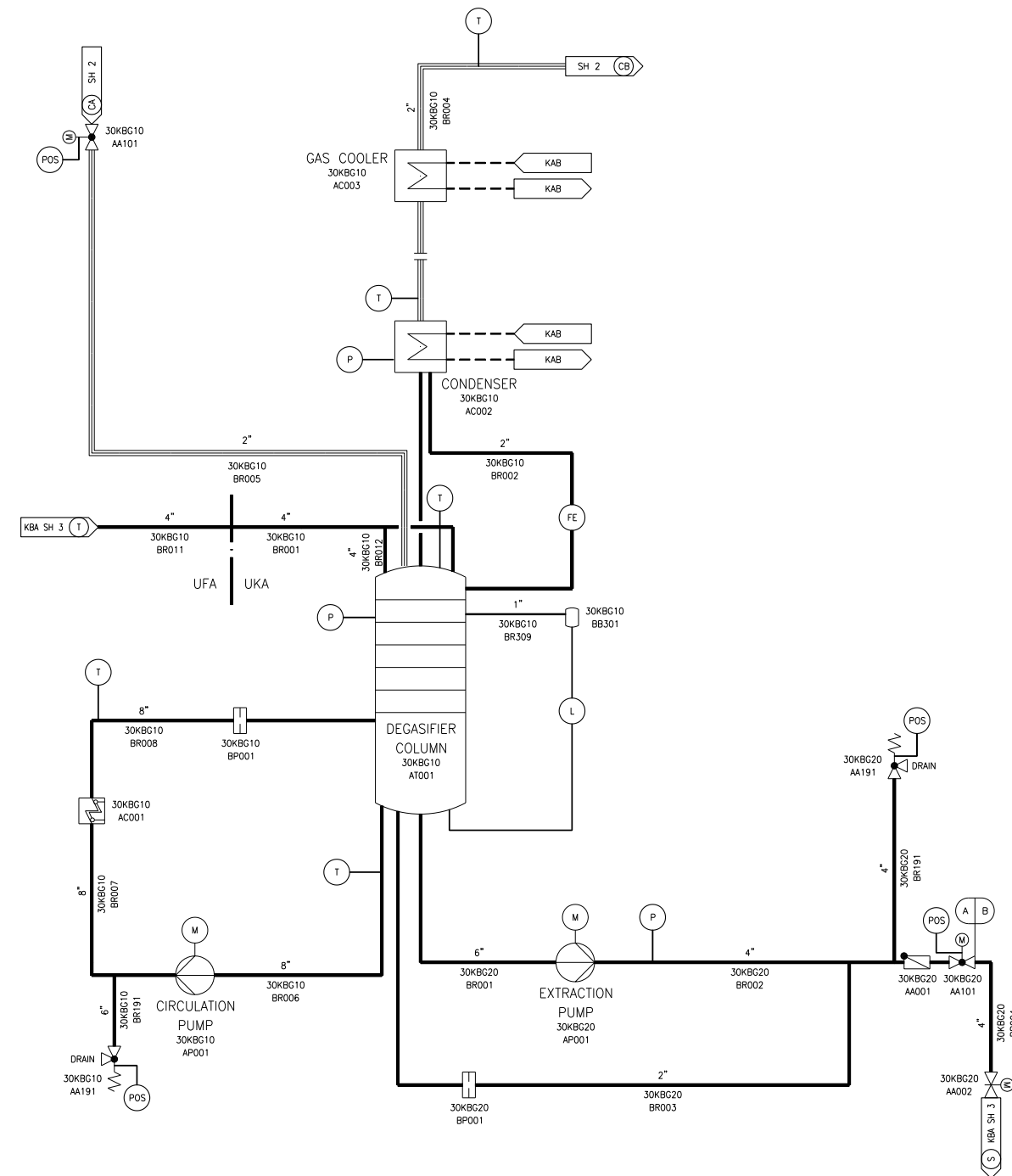
REV 001  
KBE04T2

Figure 9.3.4-2—Coolant Purification System  
Sheet 5 of 5



REV 001  
KBE05T2

Figure 9.3.4-3—Coolant Degasification System  
Sheet 1 of 2

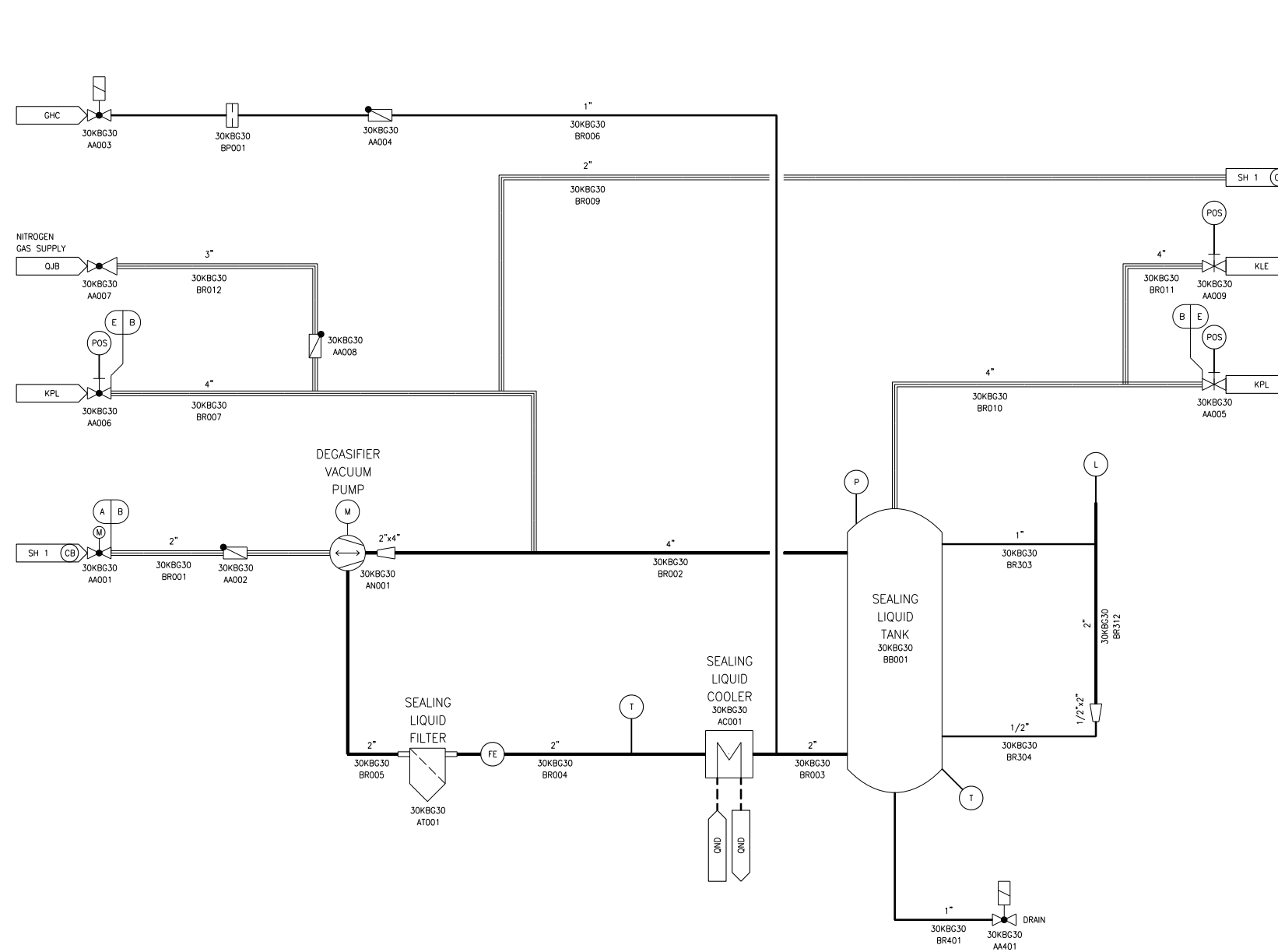


KAB - COMPONENT COOLING WATER SYSTEM COMMON HEADER  
 KBA - VOLUME CONTROL SYSTEM  
 KBG - COOLANT DEGASIFICATION SYSTEM  
 UFA - FUEL BUILDING  
 UKA - NUCLEAR AUXILIARY BUILDING

B	D	175	212	NSC
A	D	175	395	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBG01T2

Figure 9.3.4-3—Coolant Degasification System  
Sheet 2 of 2



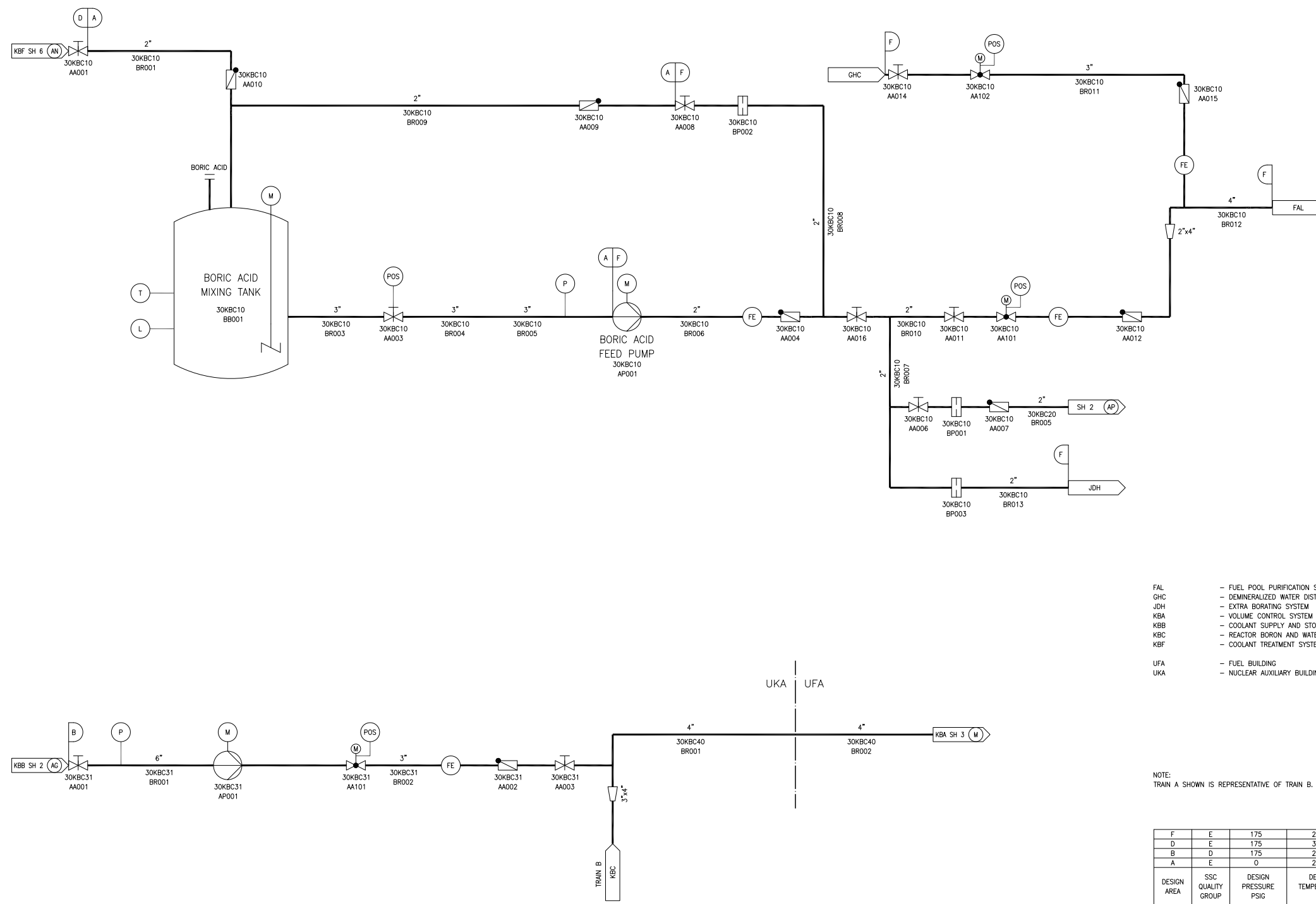
GHC - DEMINERALIZED WATER DISTRIBUTION SYSTEM  
 KBC - COOLANT DEGASIFICATION SYSTEM  
 KLE - NUCLEAR AUXILIARY BUILDING VENTILATION SYSTEM  
 KPL - GASEOUS WASTE PROCESSING SYSTEM  
 QJB - NITROGEN (N<sub>2</sub>) GAS DISTRIBUTION SYSTEM  
 OND - OPERATIONAL CHILLED WATER SYSTEM  
 UKA - NUCLEAR AUXILIARY BUILDING

E	D	175	212	RS
B	D	175	212	NSC
A	D	175	395	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBG02T2



Figure 9.3.4-4—Reactor Boron and Water Makeup System  
Sheet 1 of 2



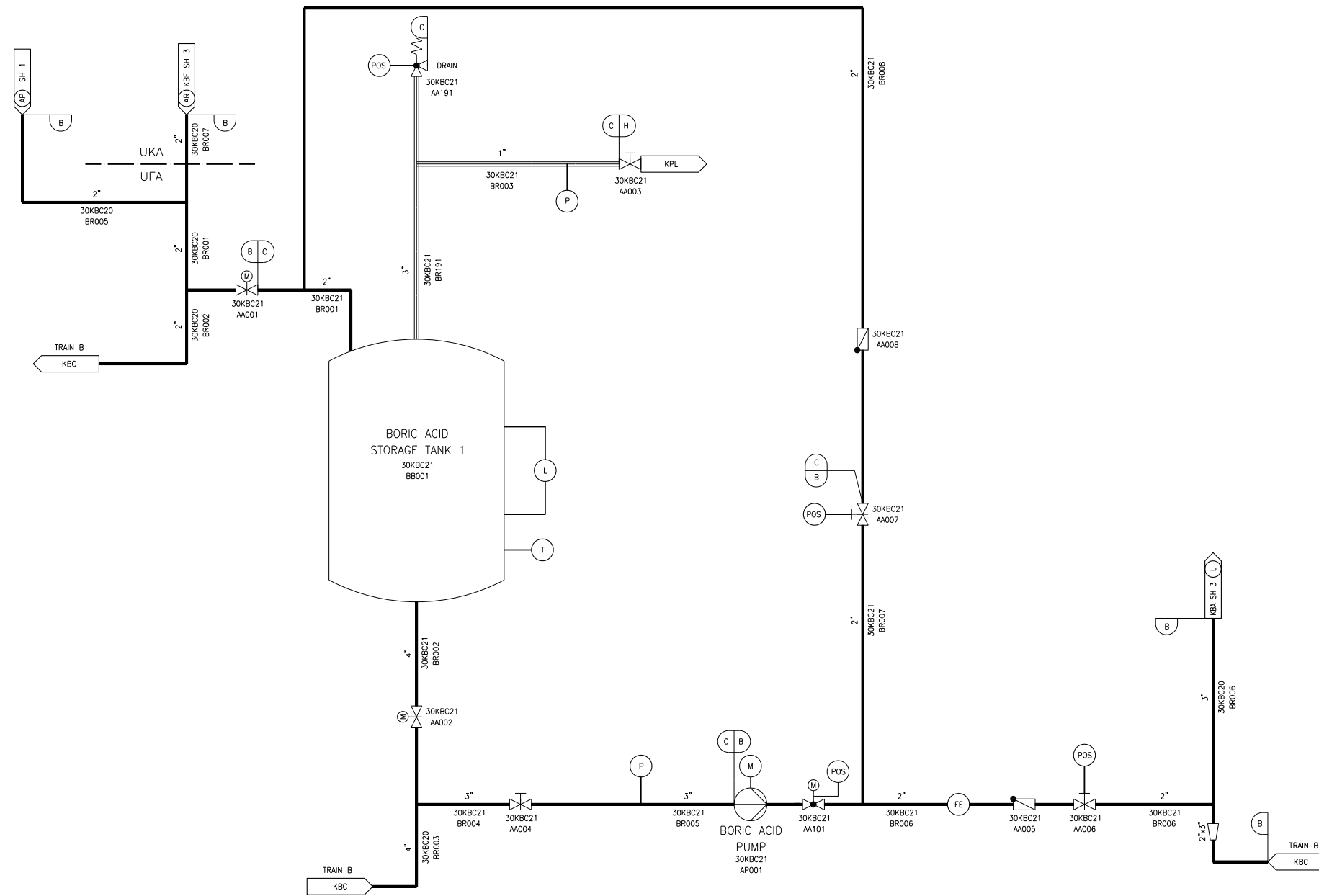
- FAL - FUEL POOL PURIFICATION SYSTEM
- GHC - DEMINERALIZED WATER DISTRIBUTION SYSTEM
- JDH - EXTRA BORATING SYSTEM
- KBA - VOLUME CONTROL SYSTEM
- KBB - COOLANT SUPPLY AND STORAGE SYSTEM
- KBC - REACTOR BORON AND WATER MAKEUP SYSTEM
- KBF - COOLANT TREATMENT SYSTEM
- UFA - FUEL BUILDING
- UKA - NUCLEAR AUXILIARY BUILDING

NOTE:  
TRAIN A SHOWN IS REPRESENTATIVE OF TRAIN B.

F	E	175	212	NSC
D	E	175	320	NSC
B	D	175	212	NSC
A	E	0	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

REV 002  
KBC01T2

Figure 9.3.4-4—Reactor Boron and Water Makeup System  
Sheet 2 of 2



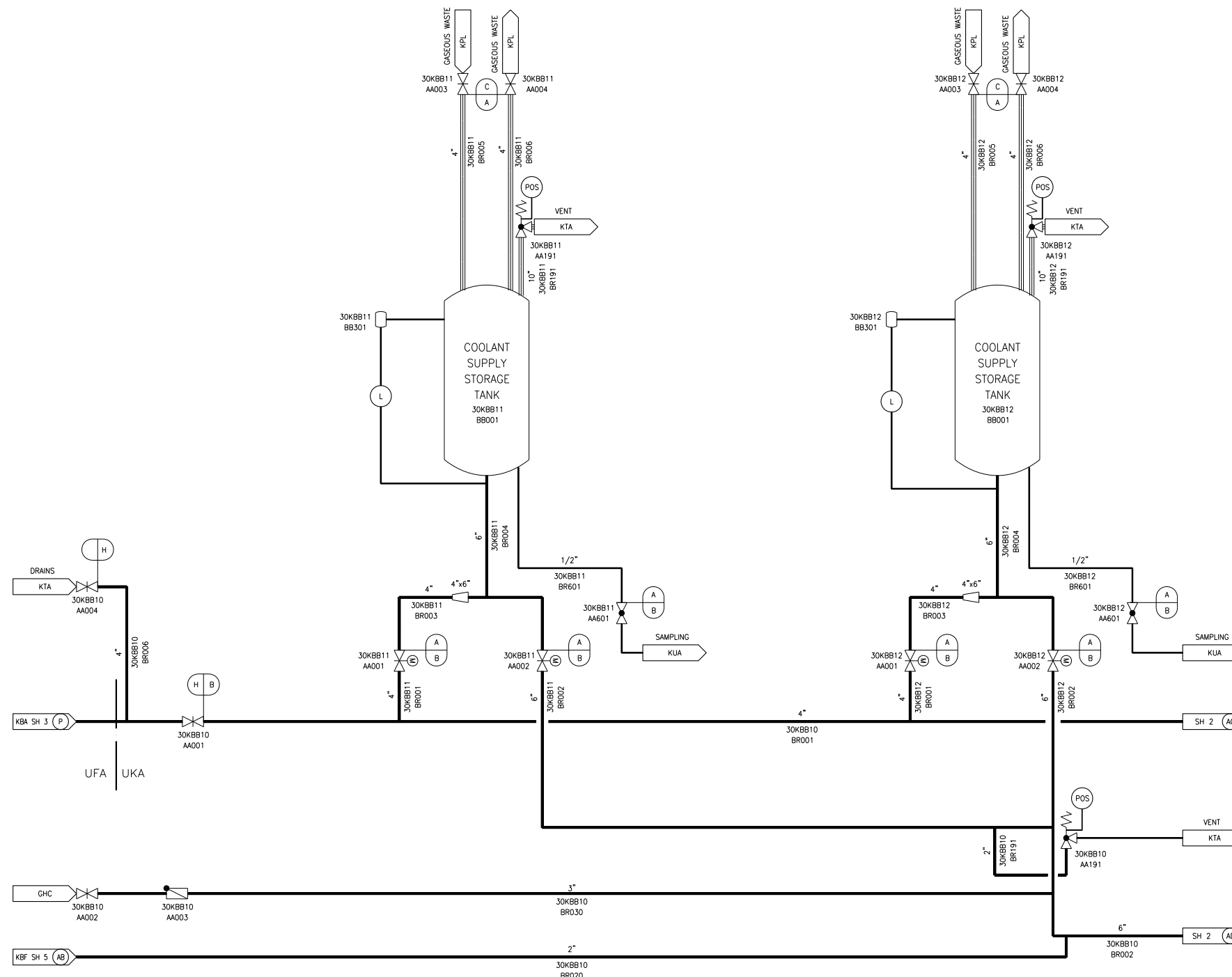
KBA - VOLUME CONTROL SYSTEM  
 KBC - REACTOR BORON AND WATER MAKEUP SYSTEM  
 KBF - COOLANT TREATMENT SYSTEM  
 KPL - GASEOUS WASTE PROCESSING SYSTEM  
 UFA - FUEL BUILDING  
 UKA - NUCLEAR AUXILIARY BUILDING

NOTE:  
 TRAIN A SHOWN IS REPRESENTATIVE OF TRAIN B.

H	D	175	212	RS
C	D	45	212	NSC
B	D	175	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBC02T2

Figure 9.3.4-5—Coolant Supply and Storage System  
Sheet 1 of 3

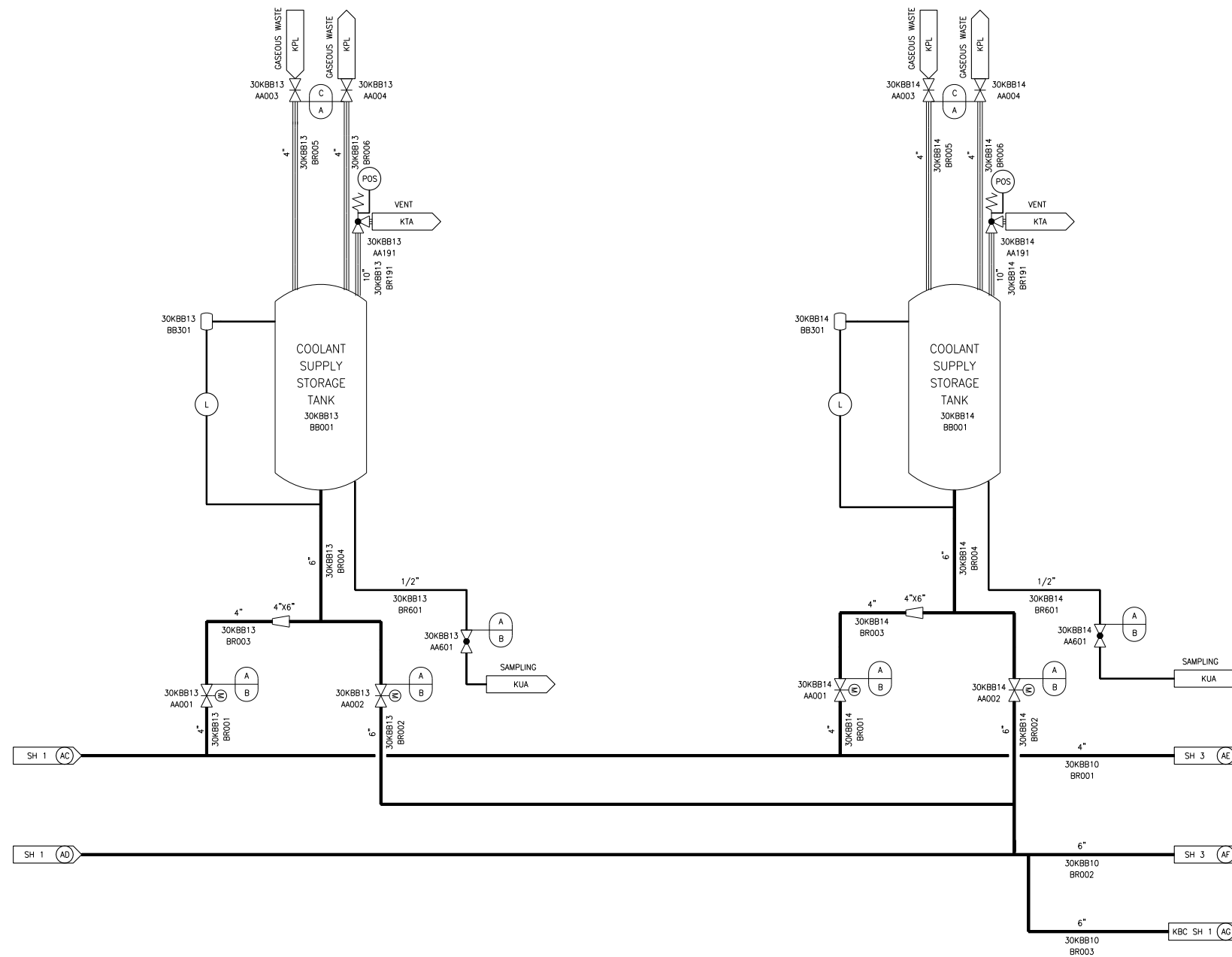


GHC – DEMINERALIZED WATER DISTRIBUTION SYSTEM  
 KBA – VOLUME CONTROL SYSTEM  
 KBB – COOLANT SUPPLY AND STORAGE SYSTEM  
 KBF – COOLANT TREATMENT SYSTEM  
 KPL – GASEOUS WASTE PROCESSING SYSTEM  
 KTA – NUCLEAR ISLAND DRAIN AND VENT SYSTEMS – PRIMARY EFFLUENTS  
 KUA – NUCLEAR SAMPLING SYSTEM – ACTIVE LIQUID SAMPLES  
 UFA – FUEL BUILDING  
 UKA – NUCLEAR AUXILIARY BUILDING

H	D	175	212	NSC
C	D	175	212	RS
B	D	175	212	NSC
A	D	45	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBB01T2

Figure 9.3.4-5—Coolant Supply and Storage System  
Sheet 2 of 3

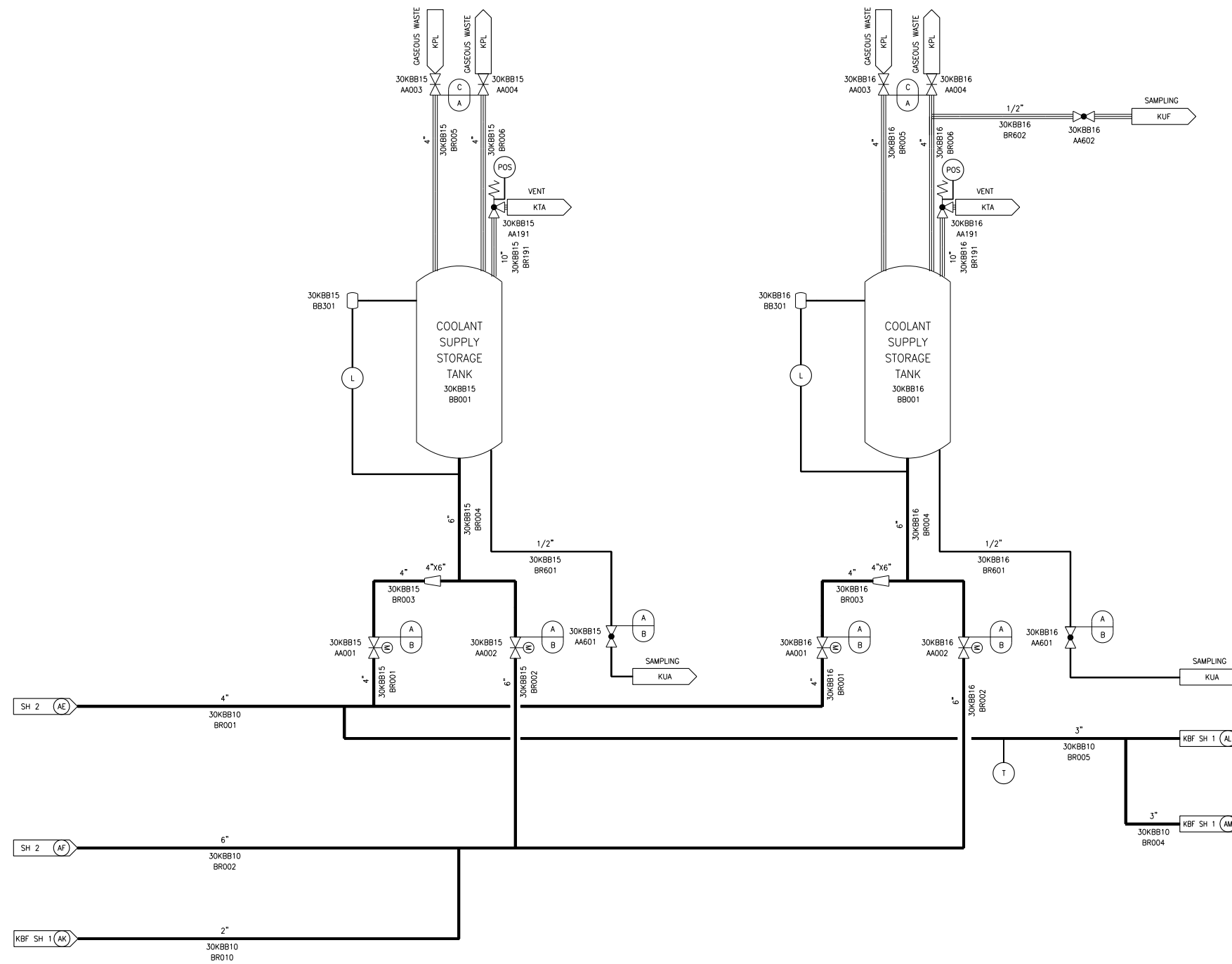


KBB – COOLANT SUPPLY AND STORAGE SYSTEM  
 KBC – REACTOR BORON AND WATER MAKEUP SYSTEM  
 KPL – GASEOUS WASTE PROCESSING SYSTEM  
 KTA – NUCLEAR ISLAND DRAIN & VENT SYSTEMS – PRIMARY EFFLUENTS  
 KUA – NUCLEAR SAMPLING SYSTEM – ACTIVE LIQUID SAMPLES  
 UKA – NUCLEAR AUXILIARY BUILDING

C	D	175	212	RS
B	D	175	212	NSC
A	D	45	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBB02T2

Figure 9.3.4-5—Coolant Supply and Storage System  
Sheet 3 of 3

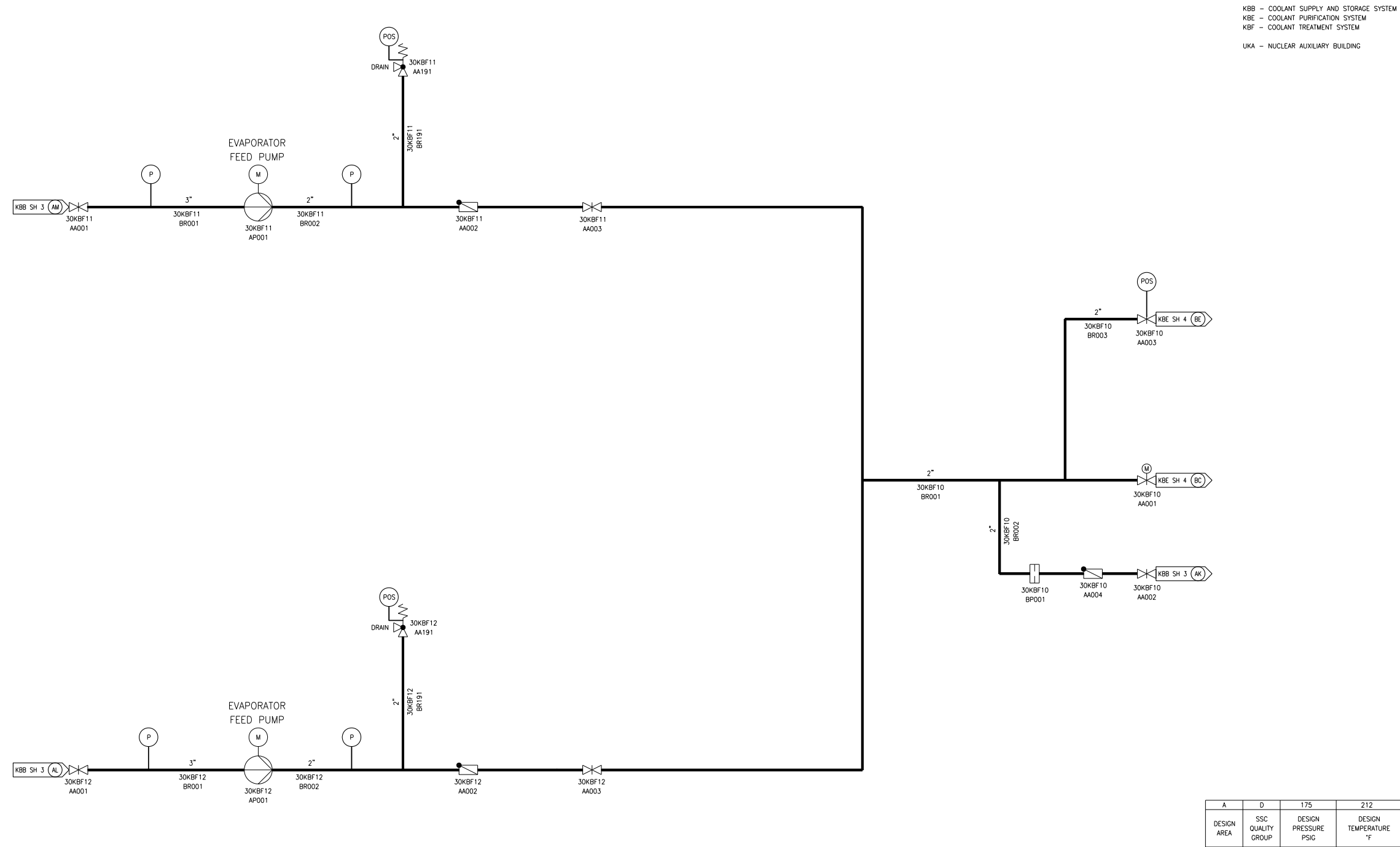


KBB - COOLANT SUPPLY AND STORAGE SYSTEM  
 KBF - COOLANT TREATMENT SYSTEM  
 KFL - GASEOUS WASTE PROCESSING SYSTEM  
 KTA - NUCLEAR ISLAND DRAIN AND VENT SYSTEMS - PRIMARY EFFLUENTS  
 KUA - NUCLEAR SAMPLING SYSTEM - ACTIVE LIQUID SAMPLES  
 KUF - NUCLEAR SAMPLING SYSTEM - GASEOUS SAMPLES  
 UKA - NUCLEAR AUXILIARY BUILDING

C	D	175	212	RS
B	D	175	212	NSC
A	D	45	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBB03T2

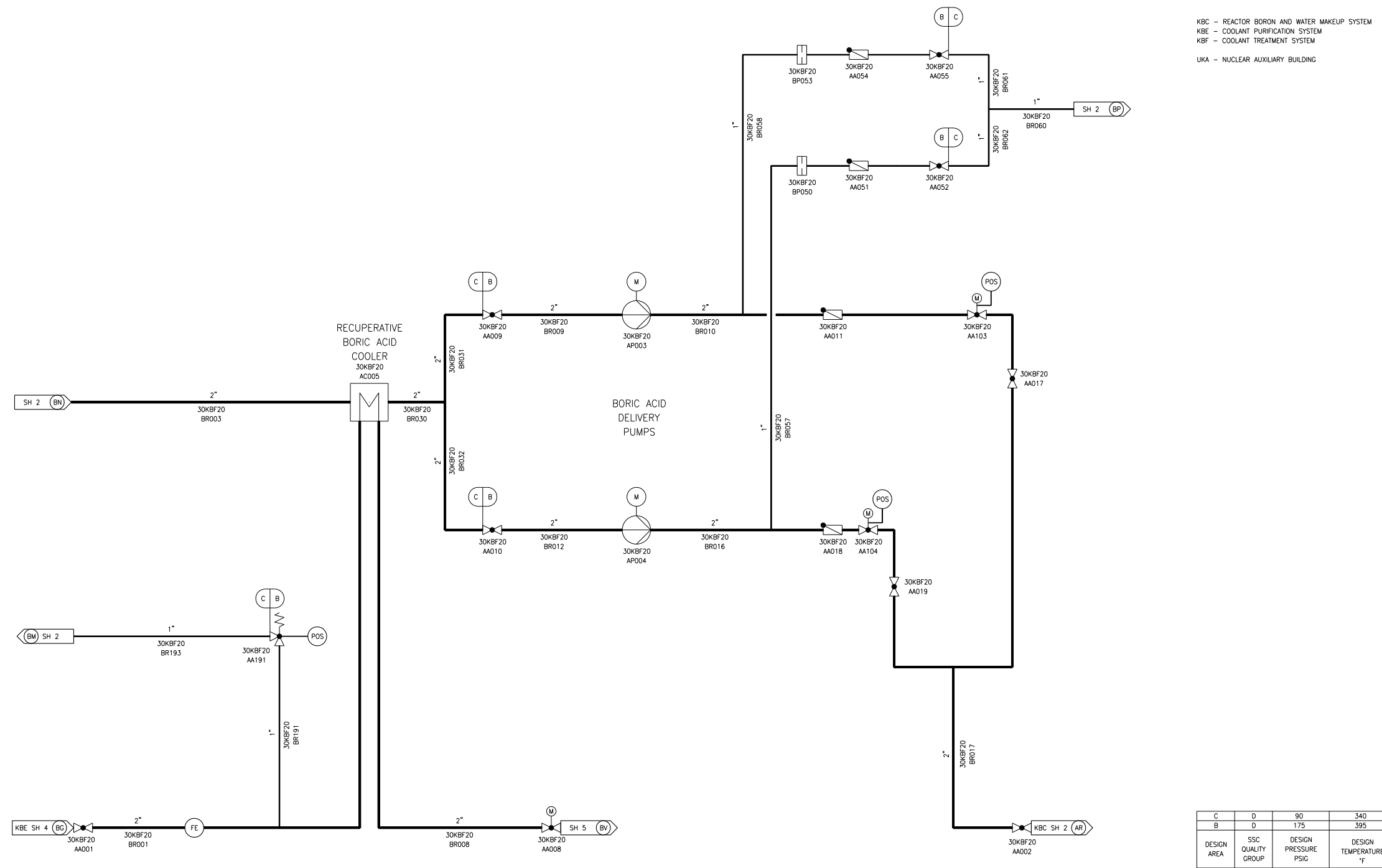
Figure 9.3.4-6—Coolant Treatment System  
Sheet 1 of 6



KBFO1T2



Figure 9.3.4-6—Coolant Treatment System  
Sheet 3 of 6

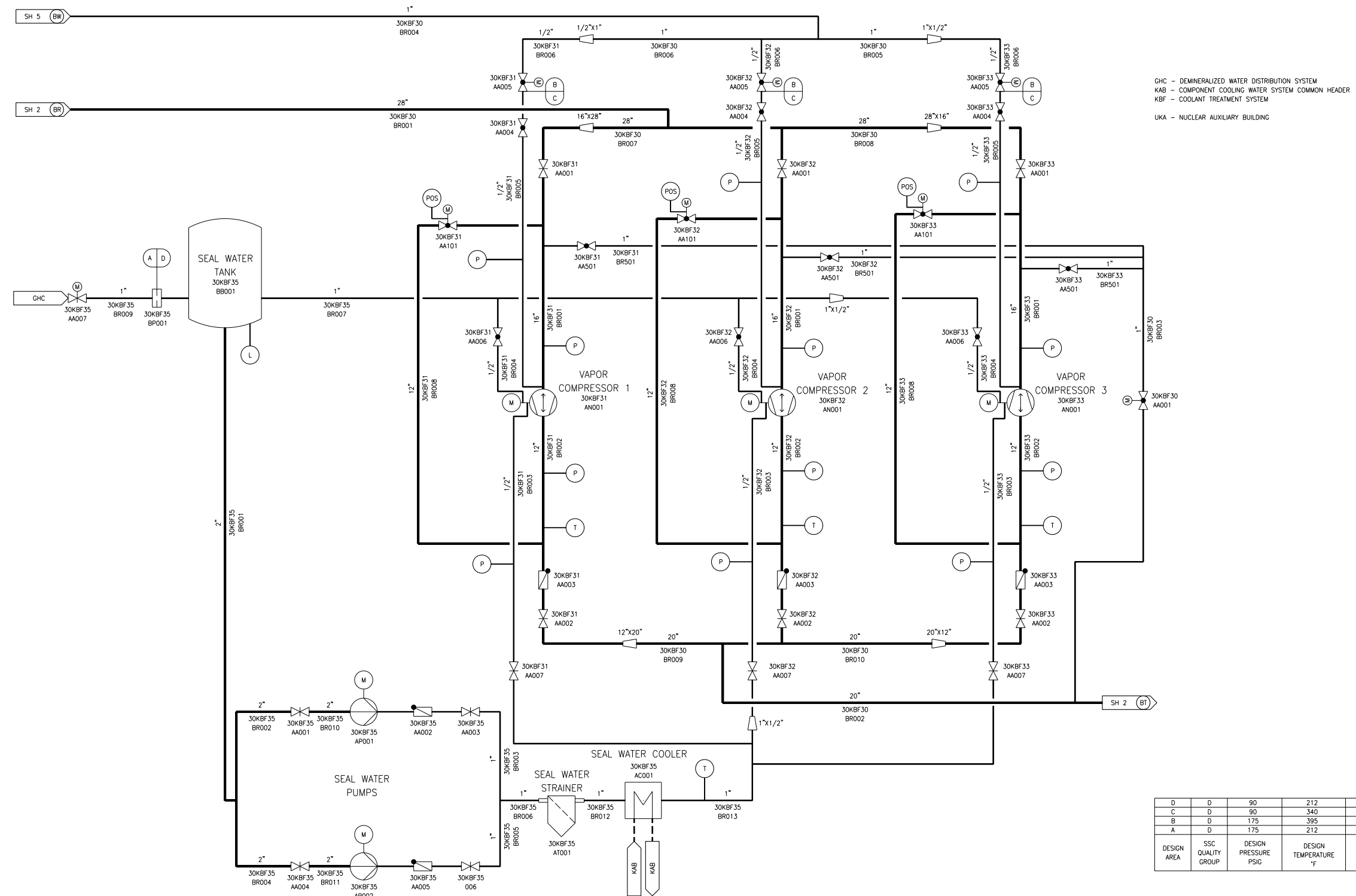


C	D	90	340	NSC
B	D	175	395	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBF03T2



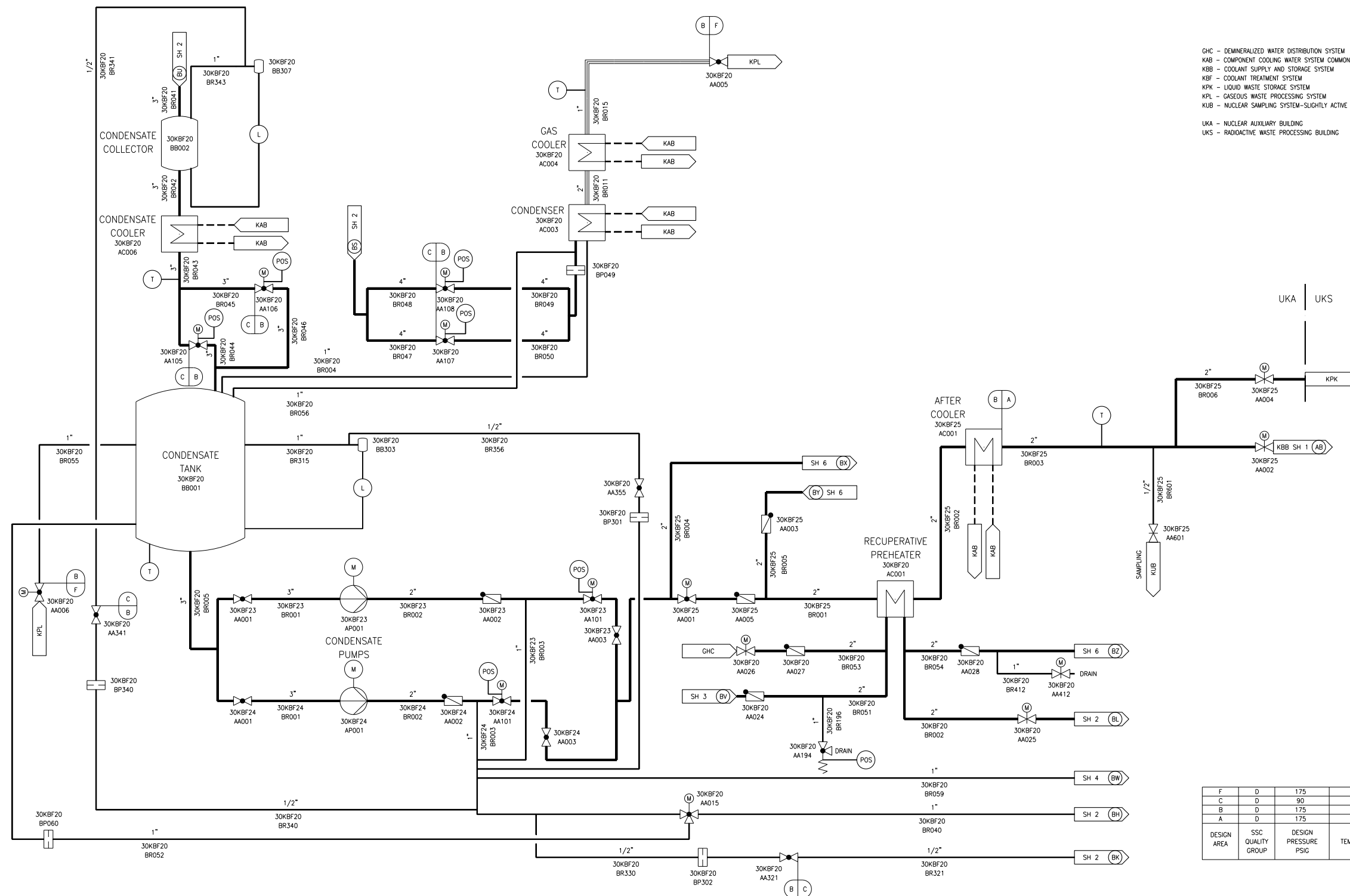
Figure 9.3.4-6—Coolant Treatment System  
Sheet 4 of 6



D	D	90	212	NSC
C	D	90	340	NSC
B	D	175	395	NSC
A	D	175	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBFO4T2

Figure 9.3.4-6—Coolant Treatment System  
Sheet 5 of 6



GHC - DEMINERALIZED WATER DISTRIBUTION SYSTEM  
 KAB - COMPONENT COOLING WATER SYSTEM COMMON HEADER  
 KBB - COOLANT SUPPLY AND STORAGE SYSTEM  
 KBF - COOLANT TREATMENT SYSTEM  
 KPL - LIQUID WASTE STORAGE SYSTEM  
 KPS - GASEOUS WASTE PROCESSING SYSTEM  
 KUB - NUCLEAR SAMPLING SYSTEM-SLIGHTLY ACTIVE LIQUID SAMPLES  
 UKA - NUCLEAR AUXILIARY BUILDING  
 UKS - RADIOACTIVE WASTE PROCESSING BUILDING

F	D	175	395	RS
C	D	90	340	NSC
B	D	175	395	NSC
A	D	175	212	NSC
DESIGN AREA	SSC QUALITY GROUP	DESIGN PRESSURE PSIG	DESIGN TEMPERATURE °F	SSC SEISMIC CLASS

KBFO5T2

