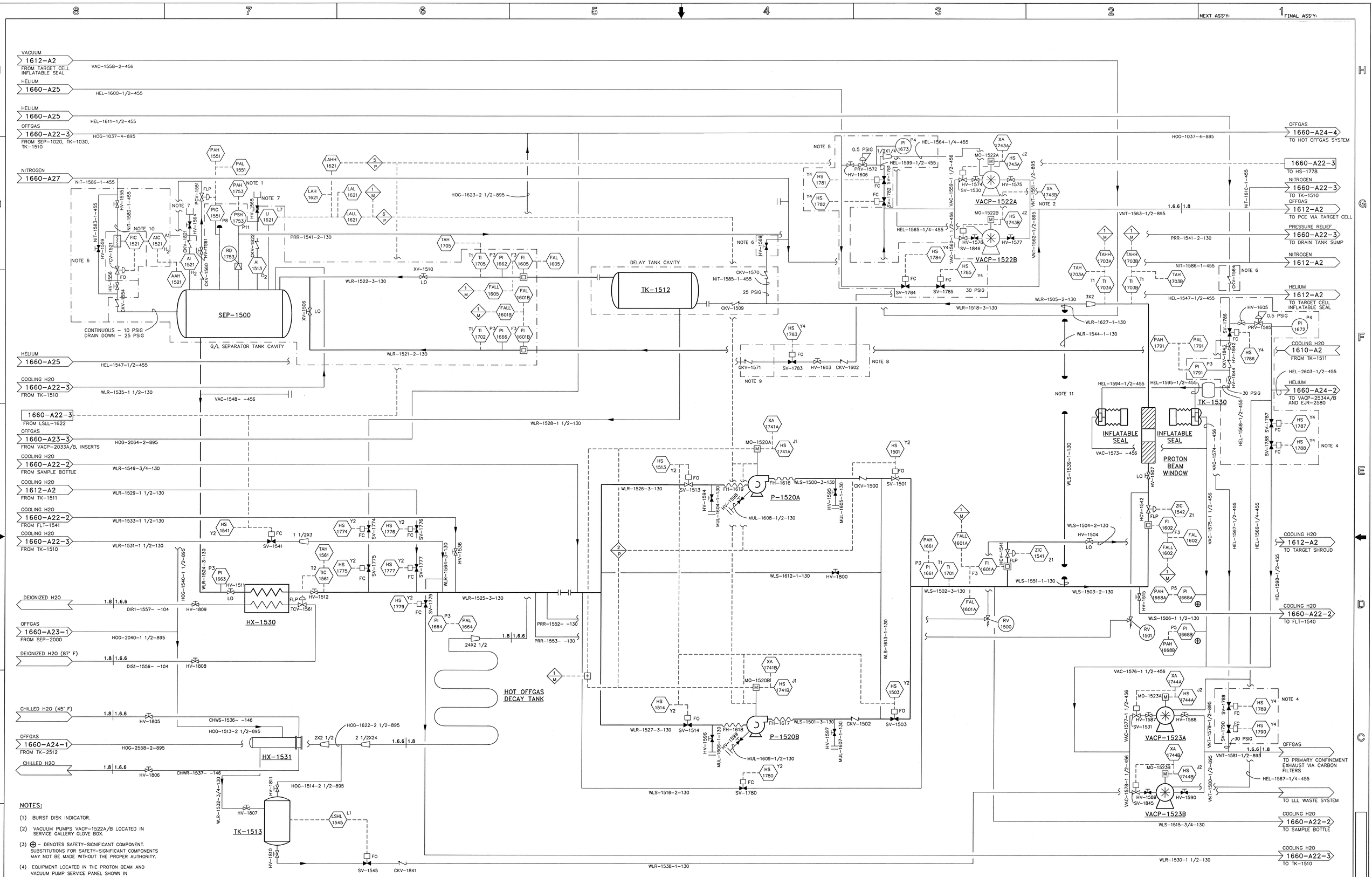

NOTES:

(1) BURST DISK INDICATOR.

(2) VACUUM PUMPS VACP-1522A/B LOCATED IN SERVICE GALLERY GLOVE BOX.

(3) ⊕ - DENOTES SAFETY-SIGNIFICANT COMPONENT. SUBSTITUTIONS FOR SAFETY-SIGNIFICANT COMPONENTS MAY NOT BE MADE WITHOUT THE PROPER AUTHORITY.

(4) EQUIPMENT LOCATED IN THE PROTON BEAM AND VACUUM PUMP SERVICE PANEL SHOWN IN SVERDRUP DRAWING 106060000-J8E-8700-A026.

(5) EQUIPMENT LOCATED IN THE SERVICE GALLERY GAS PANEL SHOWN IN SVERDRUP DRAWING 106060000-J8E-8700-A025.

(6) EQUIPMENT LOCATED IN THE LIGHT WATER STATION #2 SERVICE PANEL SHOWN IN SVERDRUP DRAWING 106060000-J8E-8700-A027.

(7) CALIBRATION GAS LINE.

(8) EQUIPMENT LOCATED IN THE OPERATOR GALLERY GAS PANEL SHOWN IN SVERDRUP DRAWING 106060000-J8E-8700-A025.

(9) EQUIPMENT LOCATED IN THE LIGHT WATER STATION #1 SERVICE PANEL SHOWN IN SVERDRUP DRAWING 106060000-J8E-8700-A025.

(10) PACKAGED FLOW CONTROLLER.

(11) SPARE LINE TO/FROM TOP OF SHIELD STACK.

SEP-1500
TARGET SHROUD/PROTON BEAM WINDOW COOLING LOOP GAS/LIQUID SEPARATOR

HX-1531
OFFGAS WATER CONDENSER

TK-1513
OFFGAS WATER COLLECTION POT

HX-1530
TARGET SHROUD/PROTON BEAM WINDOW COOLING LOOP COOLER

TK-1512
PROTON BEAM WINDOW COOLING LOOP DELAY TANK

P-1520A/B
COOLING LOOP PUMPS

VACP-1522A/B
TARGET CELL INFLATABLE SEAL VACUUM PUMPS

VACP-1523A/B
PROTON BEAM WINDOW INFLATABLE SEALS VACUUM PUMPS

TK-1530
PROTON BEAM WINDOW INFLATABLE SEAL PRESSURE SUPPRESSION POT

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NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM 3
ENGINEERING PROCEDURE SNS-TS-G001

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION (REVISION OR ISSUE PURPOSE)	BY	CHK	SECT	DEPT	DATE	PE	REQ	DATE	UTB	DATE	RPE	ND	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0				CERTIFIED FOR CONSTRUCTION, 1-18-02	CMM	JPF	—	—	01/02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

REVISION APPROVALS; SQUAD CHECK

RPE			
	DSGN	CMM	1-17-02
	DRW	CMM	1-17-02
	CHKR	JPF	1-17-02
	SECT		
	DEPT		
	PE		
	PJ		
	REQ		
			1-18-02
			1-18-02
			1-18-02
	UTB		1/18/02

REV. DATE — DRAWING APPROVALS

PROCESS DRAWING NO.
1660-A22-1

PROCESS ENGINEERING ASSOCIATES, LLC
176 RANDOLPH ROAD
OAK RIDGE, TN 37830
865-220-8722
FAX: 865-220-8729

UT-BATTELLE
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PROJECT NAME:
SPALLATION NEUTRON SOURCE

TARGET SHROUD/PROTON BEAM WINDOW UTILITIES
COOLING LOOP MAIN LOOP
PIPING AND INSTRUMENTATION DIAGRAM

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	X	X	X	8			1	3		U
51		52		53	WBS					REV
NC		NA		IN	106060000-J8E-8700-A022					0