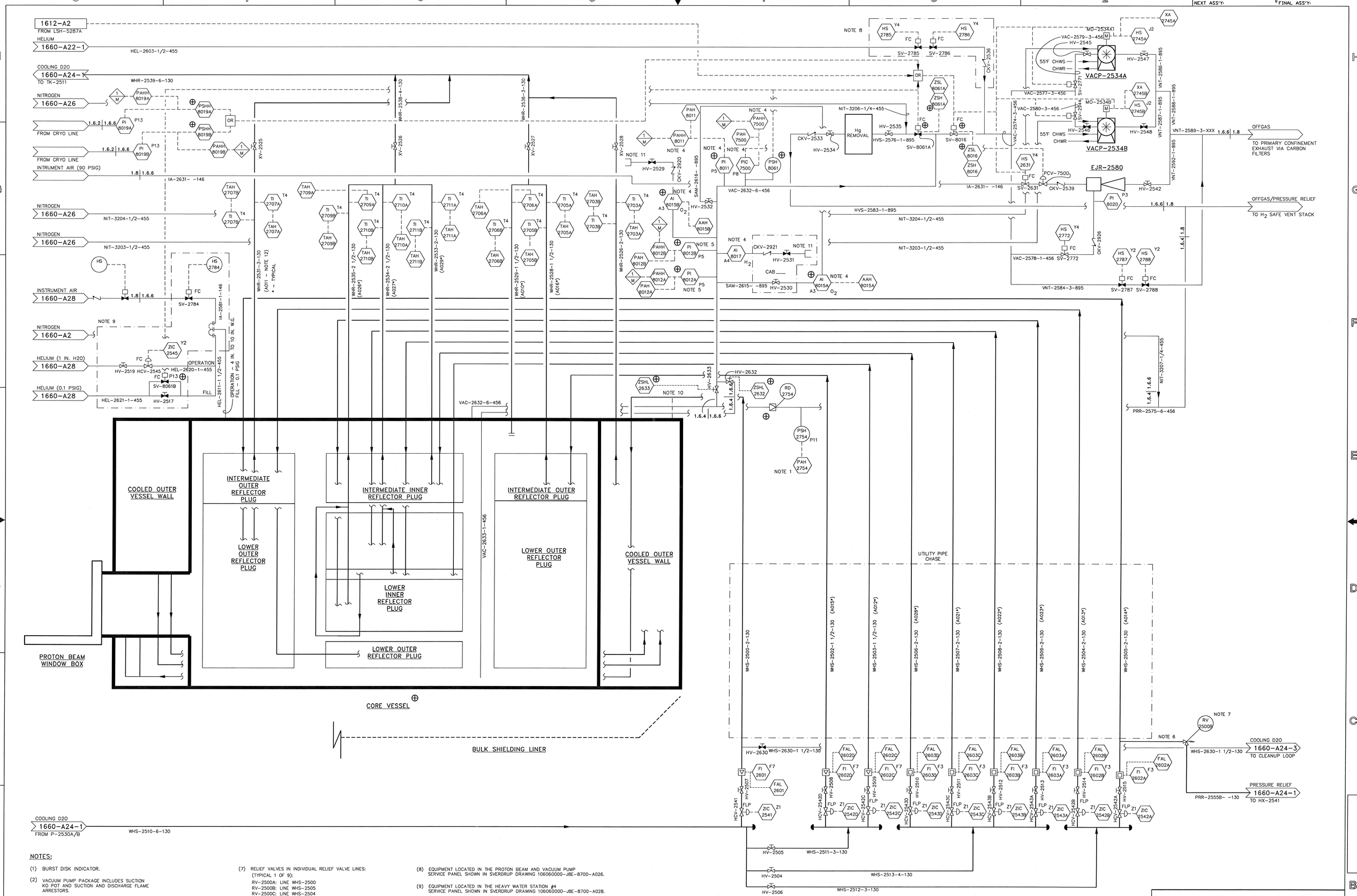

NOTES:

(1) BURST DISK INDICATOR.

(2) VACUUM PUMP PACKAGE INCLUDES SUCTION KO POT AND SUCTION AND DISCHARGE FLAME ARRESTORS.

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

(4) FOR USE DURING CORE VESSEL HELIUM MODE OF OPERATION ONLY.

(5) FOR USE DURING CORE VESSEL VACUUM MODE OF OPERATION ONLY.

(6) INDIVIDUAL RELIEF VALVE LINES:
(TYPICAL 1 OF 9)
PRR-2555A- THROUGH PRR-2555I-

(7) RELIEF VALVES IN INDIVIDUAL RELIEF VALVE LINES:
(TYPICAL 1 OF 9):
RV-2500A: LINE WHS-2500
RV-2500B: LINE WHS-2505
RV-2500C: LINE WHS-2504
RV-2500D: LINE WHS-2503
RV-2500E: LINE WHS-2502
RV-2500F: LINE WHS-2509
RV-2500G: LINE WHS-2508
RV-2500H: LINE WHS-2507
RV-2500I: LINE WHS-2506

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

(9) EQUIPMENT LOCATED IN THE HEAVY WATER STATION #4 SERVICE PANEL SHOWN IN SVERDRUP DRAWING 106060000-J8E-8700-A028.

(10) CONCRETE COLLAR BOUNDARY.

(11) CALIBRATION GAS LINE.

(12) * SEE DWG. 106030101M8E8700A0XX FOR CONNECTING PIPE INSIDE THE CORE VESSEL FOR INNER PLUGS AND DWG. 106030102M8E8700A0XX FOR OUTER PLUGS.

VACP-2534A/B CORE VESSEL HIGH VACUUM PUMPS (NOTE 2)

EJR-2580 CORE VESSEL EJECTOR

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	BY	CHK	SECT	DEPT	DATE	PE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0				CERTIFIED FOR CONSTRUCTION, 1-18-02	CMM	JPF	—	—	01/02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

REVISION OR ISSUE PURPOSE — 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	—	
	UTB		1-18-02
	UTB		1-18-02
	UTB		1-18-02

REV. DATE — DRAWING APPROVALS

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFOR MATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

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

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

PROCESS DRAWING NO. 1660-A24-2

UT-BATTELLE
Oak Ridge National Laboratory, managed by UT-Battelle, LLC, for the U.S. Dept. of Energy under contract DE-AC05-00OR22725

PROJECT NAME: SPALLATION NEUTRON SOURCE

REFLECTOR PLUGS UTILITIES PIPING AND INSTRUMENTATION DIAGRAM

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	X	X	X	8			2	4		U

51	52	53	WBS	REV
NC	NA	IN	106060000-J8E-8700-A024	0