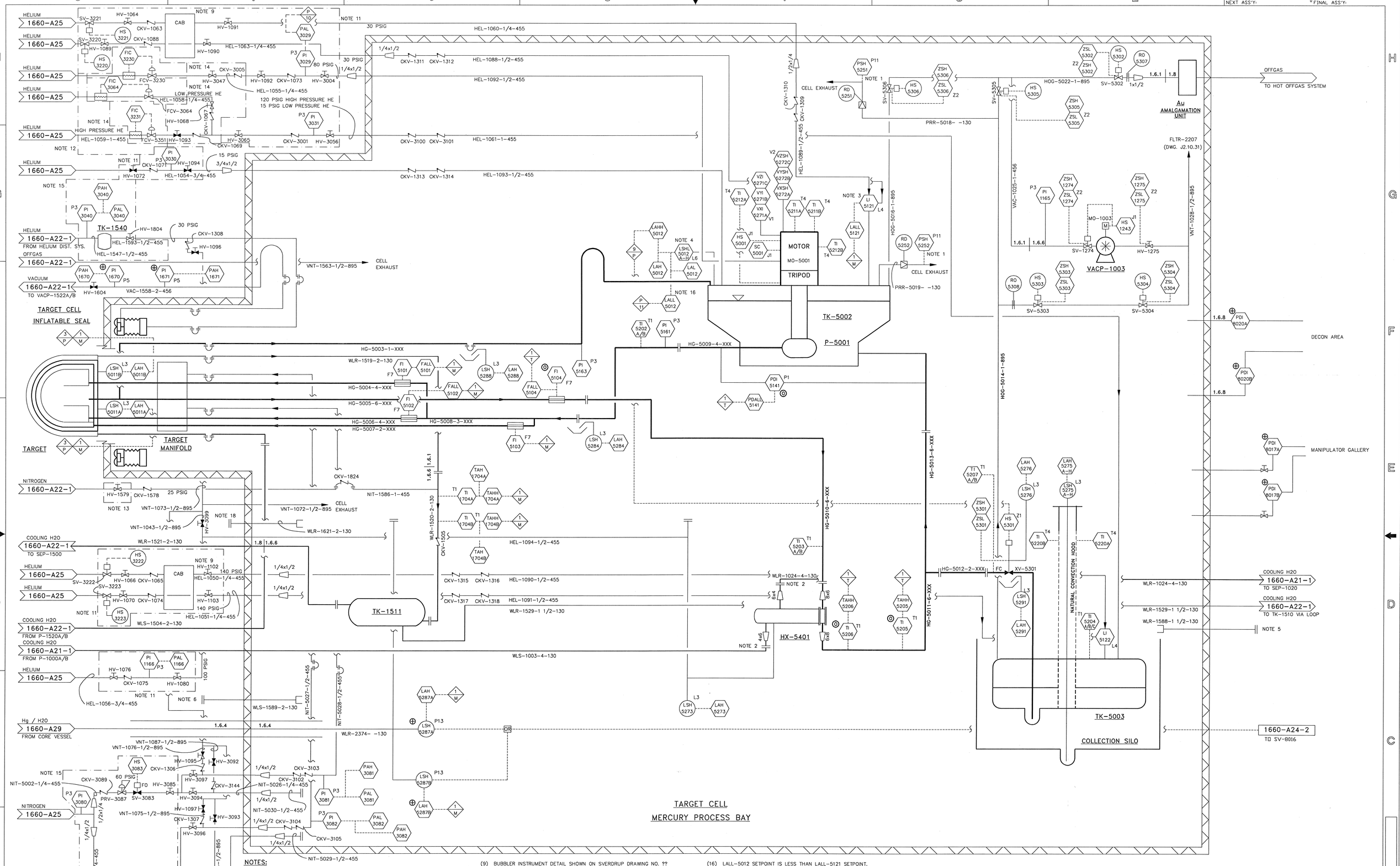

NOTES:

(1) BURST DISK INDICATOR.

(2) FLANGES SHALL BE QUICK CHANGE TYPE.

(3) HELIUM SUPPLY TO BUBBLER LE-5121.

(4) MULTI-POINT LEVEL PROBE.

(5) SPARE TARGET SHROUD COOLING LOOP DRAIN.

(6) SPARE TARGET SHROUD COOLING WATER SUPPLY LINE.

(7) ⓪ – DENOTES SAFETY-CLASS COMPONENT. SUBSTITUTIONS FOR SAFETY-CLASS COMPONENTS MAY NOT BE MADE WITHOUT THE PROPER AUTHORITY.

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

(9) BUBBLER INSTRUMENT DETAIL SHOWN ON SVERDRUP DRAWING NO. ??

(10) REFER TO TARGET AND BEAM STOP UTILITIES PIPING AND INSTRUMENTATION DIAGRAMS LEGEND FOR SYMBOLS AND VARIOUS DESIGNATIONS.

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

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

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

(14) PACKAGED FLOW CONTROLLER.

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

(16) LALL-5012 SETPOINT IS LESS THAN LALL-5121 SETPOINT.

(17) UNLESS NOTED ALL PENETRATIONS HAVE THE FOLLOWING DESIGNATIONS:
- INSIDE PIPING WBS 1.6.1
- PENETRATIONS WBS 1.8
- OUTSIDE PIPING WBS 1.6.6

(18) SPARE TARGET SHROUD COOLING WATER RETURN LINE.

TK-1540	TK-1511	HX-5401	TK-5002	P-5001	MO-5001	VACP-1003	TK-5003
TARGET CELL INFLATABLE SEAL SUPPRESSION POT	TARGET SHROUD COOLING LOOP DELAY TANK	MERCURY EXCHANGER	MERCURY PUMP RESERVOIR	MERCURY PUMP	MERCURY PUMP MOTOR	MERCURY RESERVOIR VACUUM PUMP	MERCURY STORAGE TANK

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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	BY	CHK	SECT	DEPT	DATE	PE	REQ	DATE	UTB	DATE	RPE	RPE ND	DATE
0				CERTIFIED FOR CONSTRUCTION, 1-18-02	CMM	JPF	—	—	01/02	—	[signature]	1/18/02	—	—	—	—	—

REVISION OR ISSUE PURPOSE — REVISION APPROVALS

ST	CV	EC	EE	EM	IE	M	PD	SE	AR
—	—	—	—	—	—	—	—	—	—

SQUAD CHECK

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

REV. DATE — DRAWING APPROVALS

PROCESS DRAWING NO. 1612-A2

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

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PROJECT NAME:
SPALLATION NEUTRON SOURCE
TARGET CELL MERCURY PROCESS BAY
PIPING AND INSTRUMENTATION DIAGRAM

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

51	52	53	WBS	REV
NC	NA	IN	106010200-J8E-8700-A002	0