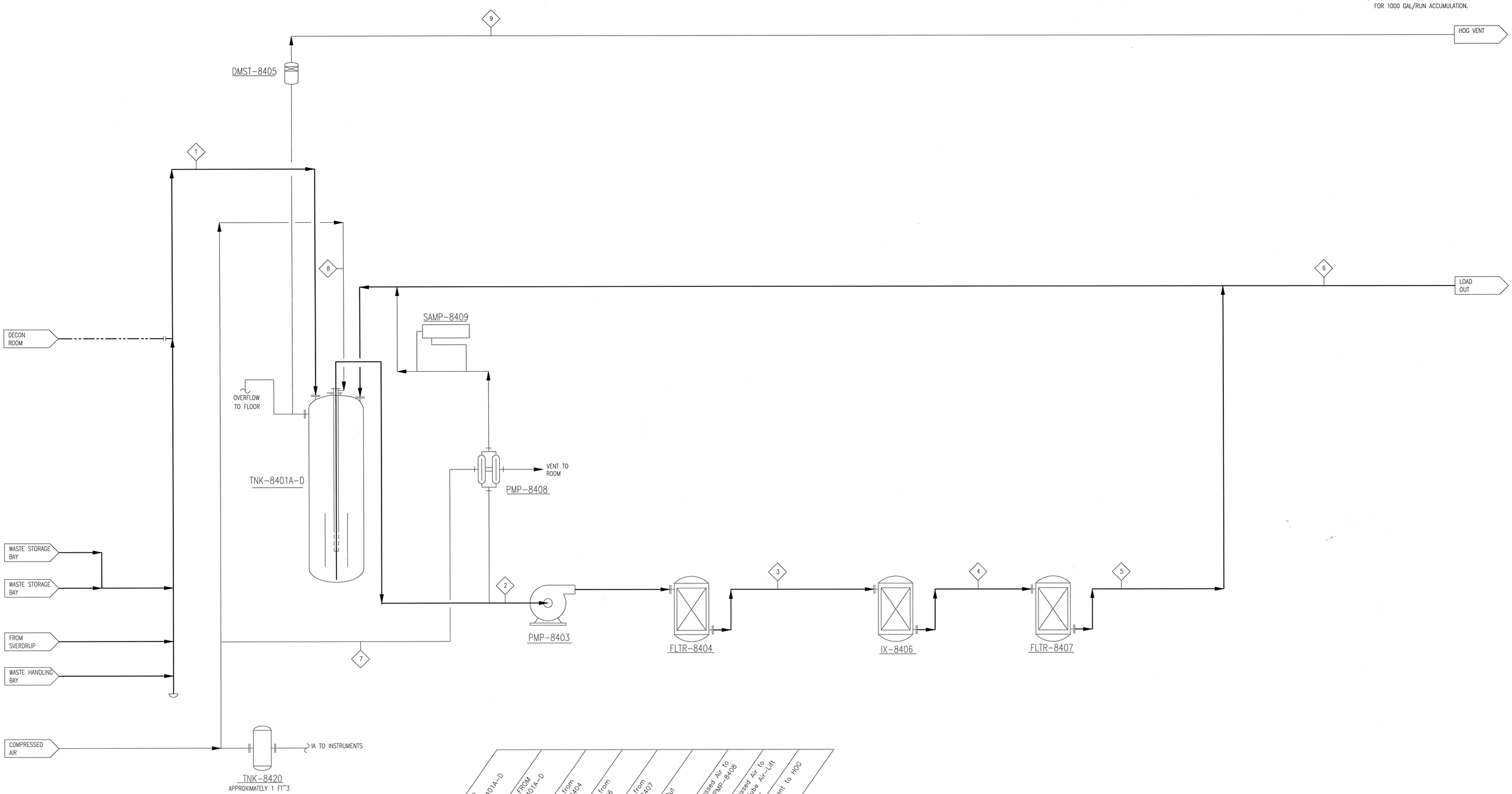
TNK-8420	TNK-8401A-D	DMST-8405	PMP-8403	FLTR-8404	IX-8406	FLTR-8407	PMP-8408	SAMP-8409
SURGE VOLUME	LLLW RECEIVER TANKS	DEMISTER	LLLW CIRCULATION PUMPS	LLLW 1 MICRON FILTERS	HG IX REMOVAL BED	LLLW 1 MICRON FILTER	RECIRCULATING PUMP	SAMPLE STATION

NOTES:

1. REFER TO CALCULATION SNS-CALC-03
2. CALCULATION BASED ON A NOMINAL FLOWRATE FOR 1000 GAL/RUN ACCUMULATION.



Stream #		1	2	3	4	5	6	7	8	9
		Feed to TNK-8401A-D	Output FROM TNK-8401A-D	Output from FLTR-8404	Output from IX-8406	Output from FLTR-8407	Load Out	Compressed Air to Pump PMP-8408	Compressed Air to Draft Tube Air-Lift Sparger	Tank vent to HOG
Component	Units									
Design										
Mercury	lb/run	3.3								
H2O	lb/run	8345								
Mercury	lb/hr		Varies	Varies	Varies	Varies	<0.2 ppm			
H2O	lb/hr		5000	5000	5000	5000	5000			
Compressed Air	SCFM							5	15	
Total Mass Flow Rate	lb/hr									Varies
Flow Rate	gal/run	1000								
Flow Rate	gpm	0.7	10	10	10	10	10			
Temperature	°F	70	70	70	70	70	70	70	70	70
Pressure	psia	14.7	13	44	40	36	UNK	80	<30	<15
Mercury Concentration	ppm	400	Varies	Varies	Varies	Varies	Trace			

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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-ENG-G001

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0				CERTIFIED FOR CONSTRUCTION – 10/26/01	RBS	DHM			RBD	11/3/01	RBD	11/2/01			GHT	11/2/01	DHM	107109	10/26/01										

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

RPE: DAVID H. MUNCH, REGISTERED PROFESSIONAL ENGINEER, No. 107109, STATE OF TENNESSEE, 10/26/01

DSN		10/26/01
DRW		10/26/01
CHK		10/26/01
DEPT		
PE		11/3/01
PJ		11/2/01
REQ		
UTB		11/2/01

0 REV. 10/26/01 DATE — DRAWING APPROVALS

108030700-J8E-8700-A019

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MERRICK Engineers & Architects

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

TARGET BUILDING PROCESS FLOW DIAGRAM LOW LEVEL LIQUID WASTE

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	J	X	X	8	8700		1	1	G	U

51	52	53	WBS		REV
NC	NA	IN	1.8.3.7	J2.10.36	0

J2.10.36