

0-8501-R7

MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
AV143	VVF015-A-4R0	1"	6
V72A, 73A, 223A, 72B, 73B, 223B	NONE	1"	6
SOV150-154, 155	VOS150-WB-40	3/4"	3
V50, 202	VOM015-J-4K	2 1/2"	2
V52	VOM015-J-4K	2 1/2"	1
V53, 55, 56	VOS060-J-4	1 1/2"	3
V54, 56, 59	VOS060-E-4	1 1/2"	3
V57, 60, 205	VOS060-E-4	3/4"	3
V75A, B	VOS060-J-3	1"	2
V71A, B, V74B	VOS060-E-3	1"	3
V72A, B	VOS060-E-3	3/4"	2
V74A	VOS060-B-3	1"	1
V80	VVF015-A-4R0	6"	1
V85	VVF015-A-4R0	8"	1
V81	VOS060-D-7	3/4"	1
V86	VOM015-H-4K	8"	1
V205	VOS060-H-2	2"	1
V88	VOS060-D-4	2"	1
V161, 162, 163, V164, 165	VSS060-C-4	1 1/2"	5
V167	VSS060-C-2	3/4"	1
V170	VOS060-J-2	1 1/2"	1
V168	VOS060-E-4	1 1/2"	1
V159	VOS060-J-4	1 1/2"	1
V70A, V70B	NONE	1"	2
SOV156	VOS150-WA-20	1"	1
V215, 216	VOS150-W-4	3/4"	2
V217, 218	VOS060-E-4	3/4"	2
V220A, B, 221A, B	NONE	1"	4

LR NOTE:  
PLEASE REFER TO DRAWING LR-000 SHEETS 2A THROUGH 2F FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

NOTES:

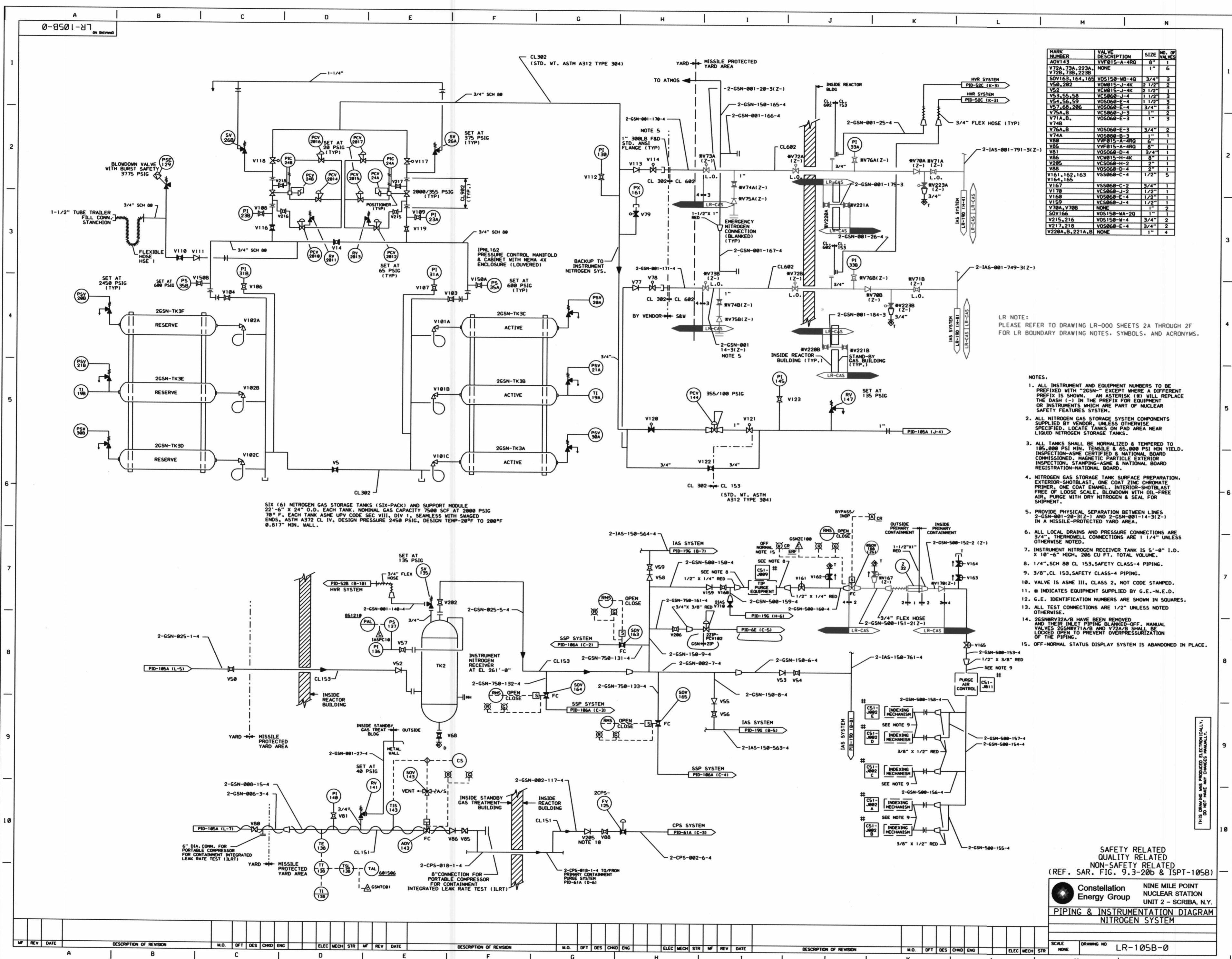
- ALL INSTRUMENT AND EQUIPMENT NUMBERS TO BE PREFIXED WITH "2GSM-" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN. AN ASTERISK (\*) WILL REPLACE THE DASH (-) IN THE PREFIX FOR EQUIPMENT OR INSTRUMENTS WHICH ARE PART OF NUCLEAR SAFETY FEATURES SYSTEM.
- ALL NITROGEN GAS STORAGE SYSTEM COMPONENTS SUPPLIED BY VENDOR, UNLESS OTHERWISE SPECIFIED. LOCATE TANKS ON PAD AREA NEAR LIQUID NITROGEN STORAGE TANKS.
- ALL TANKS SHALL BE NORMALIZED & TEMPERED TO 105,000 PSI MIN. TENSILE & 65,000 PSI MIN. YIELD. INSPECTION-ASME CERTIFIED & NATIONAL BOARD COMMISSIONED. MAGNETIC PARTICLE EXTERIOR INSPECTION. STAMPING-ASME & NATIONAL BOARD REGISTRATION-NATIONAL BOARD.
- NITROGEN GAS STORAGE TANK SURFACE PREPARATION. EXTERIOR-SHOTBLAST, ONE COAT ZINC CHROMATE PRIMER, ONE COAT ENAMEL. INTERIOR-SHOTBLAST FREE OF LOOSE SCALE. BLOWDOWN WITH OIL-FREE AIR. PURGE WITH DRY NITROGEN & SEAL FOR SHIPMENT.
- PROVIDE PHYSICAL SEPARATION BETWEEN LINES 2-GSN-001-20-3(Z-) AND 2-GSN-001-14-3(Z-) IN A MISSILE-PROTECTED YARD AREA.
- ALL LOCAL DRAINS AND PRESSURE CONNECTIONS ARE 3/4" THERMOWELL CONNECTIONS ARE 1 1/4" UNLESS OTHERWISE NOTED.
- INSTRUMENT NITROGEN RECEIVER TANK IS 5'-0" I.D. X 10'-6" HIGH, 206 CU FT. TOTAL VOLUME.
- 1/4" SCH 80 CL 153, SAFETY CLASS-4 PIPING.
- 3/8" CL 153, SAFETY CLASS-4 PIPING.
- VALVE IS ASME III, CLASS 2, NOT CODE STAMPED.
- \* INDICATES EQUIPMENT SUPPLIED BY G.E.-N.E.D.
- G.E. IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES.
- ALL TEST CONNECTIONS ARE 1/2" UNLESS NOTED OTHERWISE.
- 2GSMRV22A/B HAVE BEEN REMOVED AND THEIR INLET PIPING BLANKED-OFF. MANUAL VALVES 2GSMRV71A/B AND V72A/B SHALL BE LOCKED OPEN TO PREVENT OVERPRESSURIZATION OF THE PIPING.
- OFF-NORMAL STATUS DISPLAY SYSTEM IS ABANDONED IN PLACE.

SAFETY RELATED  
QUALITY RELATED  
NON-SAFETY RELATED  
(REF. SAR, FIG. 9.3-206 & ISPT-105B)

Constellation Energy Group  
NINE MILE POINT NUCLEAR STATION  
UNIT 2 - SCRIBA, N.Y.  
PIPING & INSTRUMENTATION DIAGRAM  
NITROGEN SYSTEM

SCALE: NONE DRAWING NO: LR-105B-0

THIS DRAWING HAS BEEN CHECKED FOR CONFORMANCE WITH THE NRC REGULATIONS AND IS NOT TO BE CHANGED UNLESS APPROVED BY THE NRC.



SIX (6) NITROGEN GAS STORAGE TANKS (SIX-PACK) AND SUPPORT MODULE  
22'-6" X 24" O.D. EACH TANK. NOMINAL GAS CAPACITY 7500 SCF AT 2000 PSIG  
70° F. EACH TANK ASME UPV CODE SEC VIII, DIV 1, SEAMLESS WITH SWAGED  
ENDS, ASTM A372 CL IV, DESIGN PRESSURE 2450 PSIG, DESIGN TEMP-20°F TO 200°F  
0.817" MIN. WALL.

221