



- REFERENCES:**
1. PROCESS FLOW DIAGRAM SHEET #1 @ DWG. 540-F-889
 2. DEFINITION OF SYMBOLS
 - ⊙ E. SPEC. G675176 REV. 2 AND
 - ⊙ E. SPEC. G676164 REV. 0
 3. INSTALLATION OF INSTRUMENTATION
 - ⊙ PROC. SPEC. CAP 294367 REV. 1
 4. MATERIAL SPEC. PIPE AND FITTINGS
 - ⊙ E. SPEC. G569866 REV. 2 AND
 - ⊙ E. SPEC. G676398 REV. 0
- REFERENCE DRAWINGS:**
- 9321-F-27513 AC AUXILIARY COOLANT SYSTEM SHEET 1 & 2
 - 9321-F-27193 WD WASTE DISPOSAL SYSTEM SHEET 1-CONT.
 - 9321-F-27303 WD WASTE DISPOSAL SYSTEM-GAS
 - 9321-F-27353 SI SAFETY INJECTION SYSTEM SHEET 1
 - 9321-F-27503 SI SAFETY INJECTION SYSTEM SHEET 2
 - 9321-F-27383 RC REACTOR COOLANT SYSTEM SHEET 1
 - 9321-F-27283 NED NUCLEAR EQUIPMENT DRAINS
 - 9321-F-27243 PW PRIMARY MAKE-UP WATER SYSTEM
 - 9321-F-27453 SP SAMPLING SYSTEM
 - 9321-F-27463 IV ISOLATION VALVE SEAL WATER SYSTEM
 - 9321-C-27413 NUCLEAR LINE SCHEDULE

- NOTES:**
1. VALVES ARE NORMALLY INSTALLED WITH FLOW UNDER SEAT. EXCEPTIONS ARE VALVES, 831A & 831B.
 2. SUCTION CONNECTION IS LOCATED IN BOTTOM HALF OF REACTOR REACTOR COOLANT PIPING ON 45° ANGLE TO VERTICAL.
 3. SPRING LOADED CHECK VALVE
 4. LOCATED IN ANNULAR RING BETWEEN SECONDARY SHIELD AND CONTAINMENT WALL.
 5. VALVE IS LOCATED CLOSE TO FUEL PIT WALL.
 6. VACUUM BREAKER SUPPLIED WITH TANK.
 7. PRESSURE TAP LOCATED PER I & C STANDARDS.
 8. PENETRATE WALL 6 FT. ABOVE FUEL ASSEMBLIES.
 9. TERMINATE PIPE 6 FT. ABOVE FUEL ASSEMBLIES.
 10. ADDITIONAL VENTS & DRAINS MAY BE INSTALLED. SEE PIPING LAYOUTS.
 11. ELEVATION OF SURGE TANK NORMAL WATER LEVEL IS AT HIGHEST POINT OF COMPONENT COOLING SYSTEM.
 12. REACTOR COOLANT PRESSURE INTERLOCK PREVENTS ISOLATION VALVE OPENING ABOVE SET PRESSURE.
 13. SCHEDULE 140 PIPE
 - 14.
 15. ELBOW FLOW METER.
 16. ONLY IF PLOCAP IS INSTALLED.
 17. EMERGENCY SERVICE WATER CONNECTION.
 18. PIPE RUN SUBMERGED IN SPENT FUEL PIT HAS SIPHON HOLE TO MAINTAIN A SPECIFIC WATER LEVEL AND PREVENT WATER FROM BEING SIPHONED OFF.
 19. ALL VALVE NO'S. ARE PRECEDED BY "AC" AS THE SYSTEM DESIGNATION, EXCEPT AS NOTED.
 20. TEMPORARY STRAINER (ST-19, ST-21, ST-22, ST-23, ST-60, ST-61, ST-62, ST-63, ST-64, ST-65, ST-66 & ST-67) IS PLACED IN THE FLANGED JOINT DURING INITIAL FLUSHING OPERATIONS. STRAINER MUST BE REMOVED BEFORE PLANT START-UP. CAPPED LINE IS CONNECTED TO PRESSURE GAUGE DURING INITIAL FLUSHING FOR STRAINERS ST-65 & ST-66 USE EXISTING DRAIN AND FLUSH CONNECTIONS FOR PRESSURE GAUGES. STRAINER BASKET/SCREEN HAS BEEN REMOVED FROM ST-19, ST-21, ST-22, ST-23, ST-60, ST-65, ST-66 & ST-67.
 21. ST-20, ST-54, ST-55 & ST-56 HAVE BEEN REMOVED PER MMR93-10104, 93-10105, 93-10106, & 93-10107; ST-61, ST-62, ST-63 & ST-64 HAVE BEEN REMOVED PER MMR93-10168, 93-10163, 93-10167, & 93-10161.
 22. THIS PART OF PIPING TO HAVE INTERNAL SURFACE OF FLANGE AND ELBOW - DIFFUSION ALLOY-TREATED.

- LEGEND:**
- RWST REFUELING WATER STORAGE TANK
 - ECC EMERGENCY COOLING CONNECTION
 - DH DRAIN HEADER
 - LO LOCKED OPEN
 - FO FAIL OPEN
 - FC FAIL CLOSED
 - T TRIP OR CLOSE ON HIGH CONTAINMENT PRESSURE
 - V LOCAL VENT
 - D LOCAL DRAIN
 - S SAFETY INJECTION SIGNAL
 - ST TEMPORARY STRAINER
 - CONTAINMENT PENETRATION
 - SEISMIC CLASSIFICATION

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NOTE:
ALL PIPING ON THIS DWG. IS SEISMIC CLASS I EXCEPT AS NOTED

NOTE:
WORK THIS DWG WITH DWG'S 9321-F-27513, SH 1 & 2.

THIS IS A COMPUTER AIDED DESIGN DRAWING. A RECORD OF THE REVISIONS OF THIS DRAWING IS AVAILABLE IN THE PROJECT INFORMATION SYSTEM. FOR MORE INFORMATION CONTACT THE PROJECT INFORMATION SYSTEM MANAGER & ENGINEERING PROGRAM SECTION W.P.O.

REDRAWN FROM @ DWG. 685J428 & 110E364

DWG/CHK'D	INDIAN POINT NO.3 NUCLEAR POWER PLANT
DES SUPV	
DISCIPLINE ENG	
DISCIPLINE DIR	
PROJ APPROVAL	
DATE	
FLOW DIAGRAM AUXILIARY COOLANT SYSTEM INSIDE CONTAINMENT	
SCALE NONE	
DWG NO 9321-F-27203	REV 25
NewYorkPower Authority	
TYPE A/ISI/FSAR	

REV	DATE	DESCRIPTION	BY	CHKD	APP'D
25	12/11/95	AS BUILT PER MOD 97-3-044 CCM	VR	DR	REG
24	12/11/95	AS BUILT PER DCR 100028276	SH	NSN	REG
23	12/11/95	AS BUILT PER DCR 100122066	SH	NSN	REG
22	12/11/95	AS BUILT PER DCR 100106395, 100108525, 100107334 & 100107326	SH	NSN	REG
21	12/11/95	AS BUILT PER DCR 100103120 & 100028276	SH	NSN	REG

INFORMATION ONLY

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