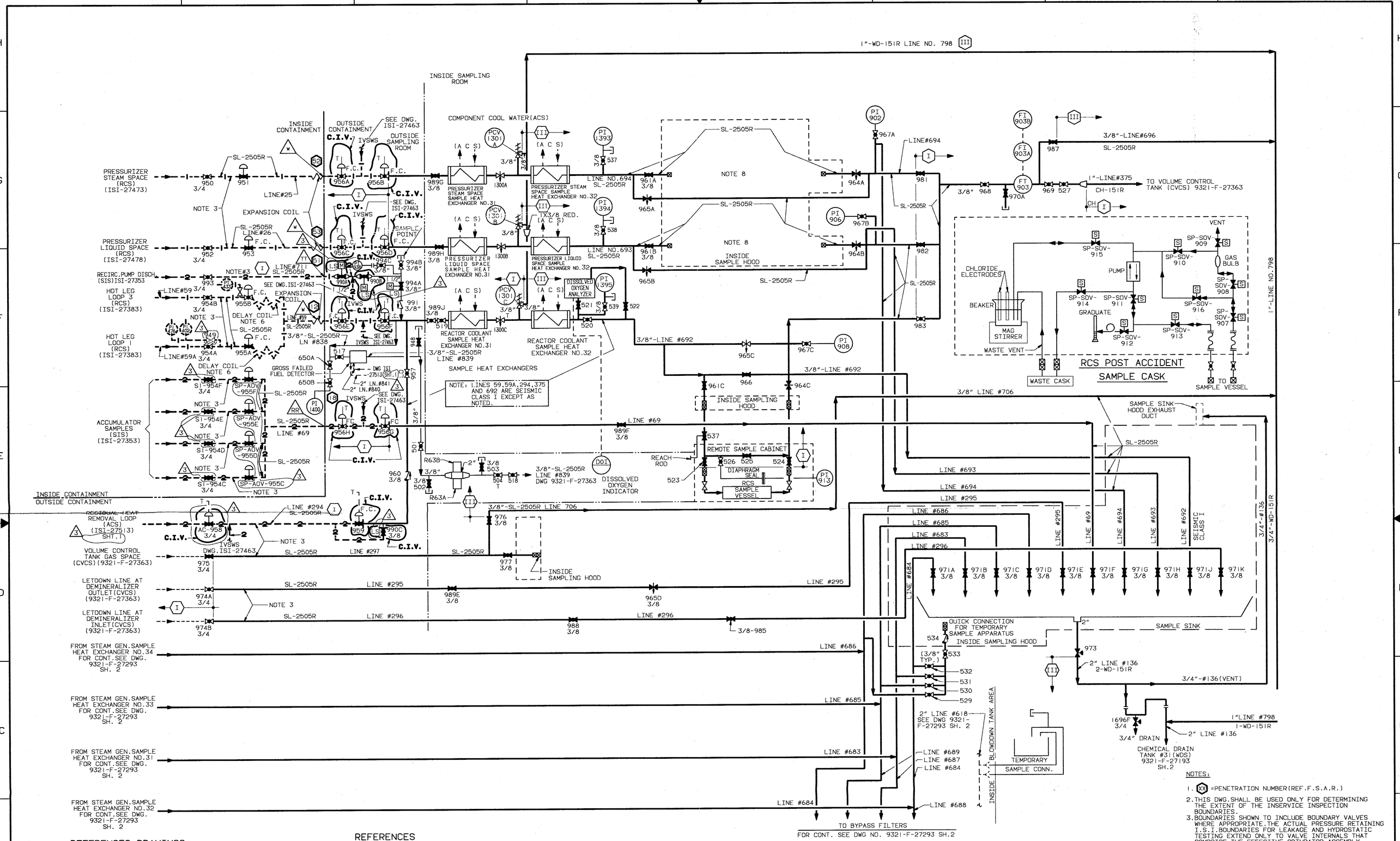

REFERENCES DRAWINGS:

9321-F-27363 CHEMICAL & VOLUME CONTROL SYSTEM
9321-F-27373 CHEMICAL & VOLUME CONTROL SYSTEM
9321-F-27383 REACTOR COOLANT SYSTEM
9321-F-27293 STEAM GENERATOR BLOWDOWN SYSTEM SH.1
9321-F-27513 AUXILIARY COOLANT SYSTEM SH.2
9321-F-27193 WASTE DISPOSAL SYSTEM SH.2
9321-F-27303 WASTE DISPOSAL SYSTEM GAS
9321-F-27353 SAFETY INJECTION SYSTEM
9321-F-27463 ISOLATION VALVE SEAL WATER SYSTEM
9321-F-27243 PRIMARY WATER SYSTEM NUCLEAR STEAM SUPPLY PLANT
9321-F-27413 NUCLEAR LINE SCHEDULE

REFERENCES

1) PROCESS FLOW DIAGRAM (W) DWG.540F894
2) DEFINITION OF SYMBOLS
   (W) E.SPEC.G675176 REV.2 AND
   (W) E.SPEC.G675164 REV.0
3) INSTALLATION OF INSTRUMENTATION
   (W) PROC.SPEC.CAP-294367 REV.1
4) MATERIAL SPEC.PIPE AND FITTINGS
   (W) E.SPEC.G569866 REV.2 AND
   (W) E.SPEC.G676398 REV.0

LEGEND:

T-THROTTLED
LS-LOCKED SHUT

FC-FAIL CLOSED
⬡-SEISMIC CLASSIFICATION

NOTES:

1. ALL TUBING IS 3/8" O.D. EXCEPT AS DETAILED.
2. ALL VALVES INSTALLED WITH FLOW UNDER SEAT EXCEPT VALVE NUMBERS 968,970A.
3. 3/4"STD PIPE X 3/8"TUBING INSERT AT 3/4" VALVES.
4. ADDITIONAL VENTS AND DRAINS MAY BE REQUIRED BASED ON PIPE LAYOUT.
5. ALL CHECK VALVES SHOULD BE "Y" TYPE LIFT CHECK.
6. DELAY COIL-125 FT. X 3/8" O.D. TUBING X 0.245" I.D. INSIDE CONT.BLDG.
7. ALL VALVE NO.S ARE PRECEDED BY "SP" EXCEPT AS NOTED.
8. SAMPLE VESSEL HAS BEEN RETIRED.

NOTES:

1. (XX) =PENETRATION NUMBER(REF.F.S.A.R.)
2. THIS DWG.SHALL BE USED ONLY FOR DETERMINING THE EXTENT OF THE INSERVICE INSPECTION BOUNDARIES.
3. BOUNDARIES SHOWN TO INCLUDE BOUNDARY VALVES WHERE APPROPRIATE.THE ACTUAL PRESSURE RETAINING I.S.I.BOUNDARIES FOR LEAKAGE AND HYDROSTATIC TESTING EXTEND ONLY TO VALVE INTERNALS THAT COMPRISE THE EFFECTIVE OBTURATOR ASSEMBLY.

Docket # 50-286
Accession # 9606270005
Date 6/26/96 of Ltr
Regulatory Docket File

ISI LEGEND
---1---1--- ISI CLASS I
---2---2--- ISI CLASS II
---3---3--- ISI CLASS III
C.I.V. = CONTAINMENT ISOLATION VALVE

THIS ISI DWG.IS BASED ON U.E.& C.DWG.#9321-F-27453,REV.17.

REV NO	DATE	DESCRIPTION	DWN/CHK	DS	DE/DIS	PROJ MGR
3	5/19/95	UPDATED TO 9321-F-27453,REV.17.	DM			

REVISIONS

SI APERTURE CARD

DWN/CHK'D
DES SUPV
DISCIPLINE ENG
DISCIPLINE DIR
PROJ APPROVAL
DATE

INDIAN POINT NO.3 NUCLEAR POWER PLANT

FLOW DIAGRAM
SAMPLING SYSTEM

NewYorkPower Authority

SCALE NONE
DWG NO ISI-27453
REV 3
SHEET