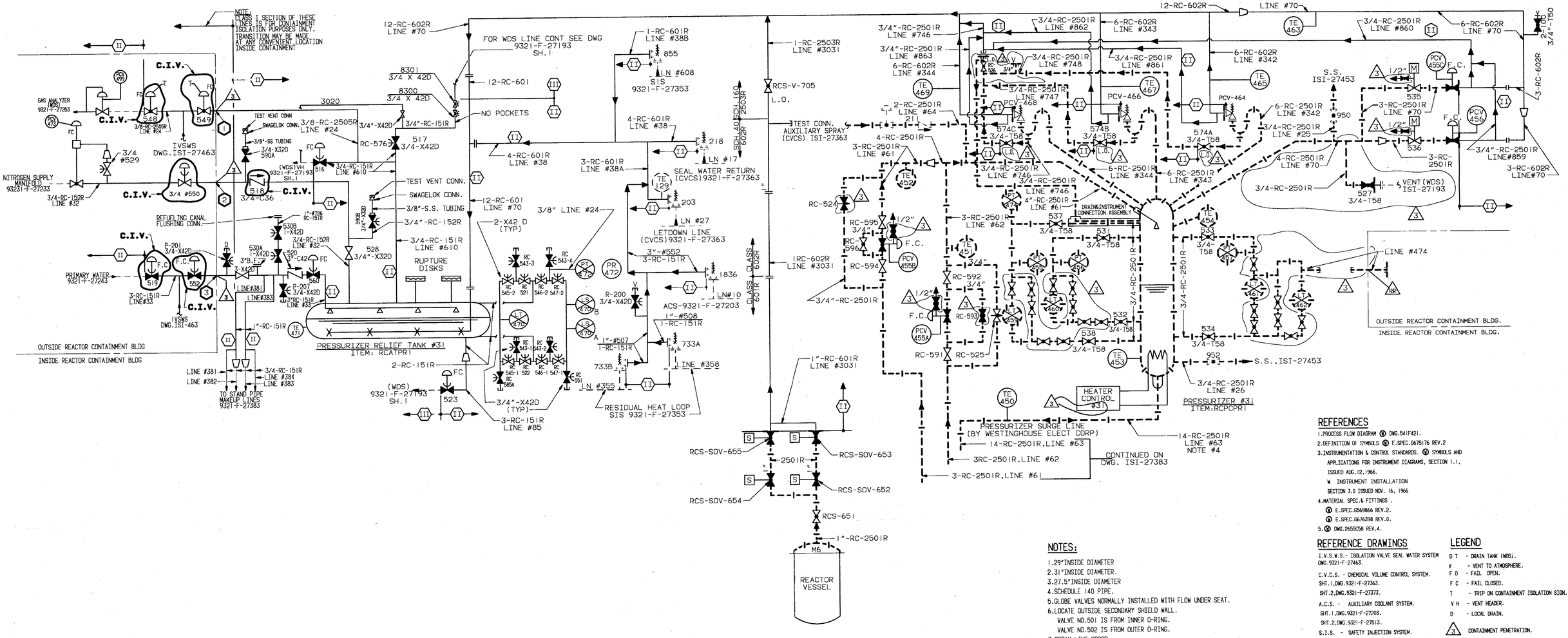

REFERENCES

1. PROCESS FLOW DIAGRAM (W) DWG.541F421.
2. DEFINITION OF SYMBOLS (W) E.SPEC.G675176 REV.2
3. INSTRUMENTATION & CONTROL STANDARDS. (W) SYMBOLS AND APPLICATIONS FOR INSTRUMENT DIAGRAMS, SECTION 1.1. ISSUED AUG.12.1966.
   W INSTRUMENT INSTALLATION SECTION 3.0 ISSUED NOV. 16, 1966
4. MATERIAL SPEC.& FITTINGS .
   (W) E.SPEC.0569866 REV.2.
   (W) E.SPEC.0676398 REV.0.
5. (W) DWG.2655C58 REV.4.

REFERENCE DRAWINGS

I.V.S.W.S.- ISOLATION VALVE SEAL WATER SYSTEM DWG.9321-F-27463.

C.V.C.S. - CHEMICAL VOLUME CONTROL SYSTEM.
SHT.1,DWG.9321-F-27363.
SHT.2,DWG.9321-F-27373.

A.C.S. - AUXILIARY COOLANT SYSTEM.
SHT.1,DWG.9321-F-27203.
SHT.2,DWG.9321-F-27513.

S.I.S. - SAFETY INJECTION SYSTEM.
SHT.1,DWG.9321-F-27353.
SHT.2,DWG.9321-F-27563.

S.S. - SAMPLING SYSTEM.
DWG.9321-F-27453.

W.D.S. - WASTE DISPOSAL SYSTEM.
SHT.4,DWG.9321-F-27193.
SHT.2,DWG.9321-F-27303.

R.C.S. - REACTOR COOLANT SYSTEM.
SHT.1,DWG.9321-F-27383.

NUCLEAR LINE LIST
DWG.9321-C-27413.

REACTOR HEAD VENT SYSTEM.
DWG.6604-171-F-1.

LEGEND

D T - DRAIN TANK (WDS).
V - VENT TO ATMOSPHERE.
F O - FAIL OPEN.
F C - FAIL CLOSED.
T - TRIP ON CONTAINMENT ISOLATION SIGN.
V H - VENT HEADER.
D - LOCAL DRAIN.
3 CONTAINMENT PENETRATION.
SEISMIC CLASSIFICATION.

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

NOTES:

1. 29"INSIDE DIAMETER
2. 31"INSIDE DIAMETER.
3. 27.5"INSIDE DIAMETER
4. SCHEDULE 140 PIPE.
5. GLOBE VALVES NORMALLY INSTALLED WITH FLOW UNDER SEAT.
6. LOCATE OUTSIDE SECONDARY SHIELD WALL.
   VALVE NO.501 IS FROM INNER O-RING.
   VALVE NO.502 IS FROM OUTER O-RING.
7. SPRAY LINE SCOOP.
8. ELBOW FLOW METERS.
9. 7FT,LG.,6"DIA.SCHEDULE 10S STAND PIPE,CAP BOTH ENDS.
10. PIPE SLOPED DOWNHILL TO DRAIN TANK.
11. ALL SCOOPS LOCATED IN THE SAME CROSS-SECTIONAL PLANE.
12. LOCATE ROOT VALVE ABOVE ELEVATION OF REACTOR VESSEL NOZZLES.
13. VESSEL VENT LINE AND GASKET MONITORING LINES FURNISHED WITH VESSEL.
14. LOCATE VALVES 539,540,541&542 BELOW HOT LEG PIPING.
15. FOR SEAL LEAKOFF SEE DWG.#9321-F-26473 FOR VALVES 535,536,455A & B.

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.

SI APERTURE CARD

ISI LEGEND
---1---1--- ISI CLASS I
---2---2--- ISI CLASS II
---3---3--- ISI CLASS III
CIV = CONTAINMENT ISOLATION VALVE

Docket # 50-286
Accession # 7906270085
Date 6/19/79 of Ltr
Regulatory Docket File

THIS ISI DWG.IS BASED ON U.E.& C.DWG.#9321-F-27473,REV. 24.

REV NO	DATE	DESCRIPTION	DWN	CHK	DS	DE	QM	PROJ APP.
3	5/1/79	UPDATED TO 9321-F-27473,REV. 24.	PM					

REVISIONS

DWN / CHK'D	INDIAN POINT NO.3 NUCLEAR POWER PLANT
DES SUPV	
DISCIPLINE ENG	FLOW DIAGRAM REACTOR COOLANT SYSTEM SHEET NO.2
DISCIPLINE MGR.	
PROJ APPROVAL	
DATE	

New York Power Authority

SCALE

DWG NO ISI-27473 REV 3

SHEET OF