

REFERENCE DRAWINGS:
9321-D-20163 FLOW DIAGRAM SYMBOLS
9321-F-20913 CONDENSER AIR REMOVAL PIPING PLAN - SH.NO.1
9321-F-20923 CONDENSER AIR REMOVAL PIPING SECTIONS - SH.NO.2
9321-F-21403 MISCELLANEOUS PIPING - SH.NO.3
9321-F-20873 WATERBOX PRIMING PIPING PLAN - SH.NO.1
9321-F-20883 WATERBOX PRIMING PIPING SECT. & ELEV. - SH.NO.2
9321-F-20963 YARD AREA-S.J.A.E.BLOWER VENT PIPING TURBINE BLDG. TO CONTAINMENT BLDG.
9321-F-40573 FLOW DIAGRAM AUXILIARY STEAM SUPPLY AND CONDENSATE RETURN SYSTEM
9321-F-70113 INST.PIPING SCHEMATICS - SH.NO.2 INSTRUMENTATION

CLASS I PIPING
DOUBLE ISOLATION VALVES PCV-1229 & PCV-1230 THROUGH CONTAINMENT BUILDING INCLUDING PRESSURIZATION AIR SYSTEM.

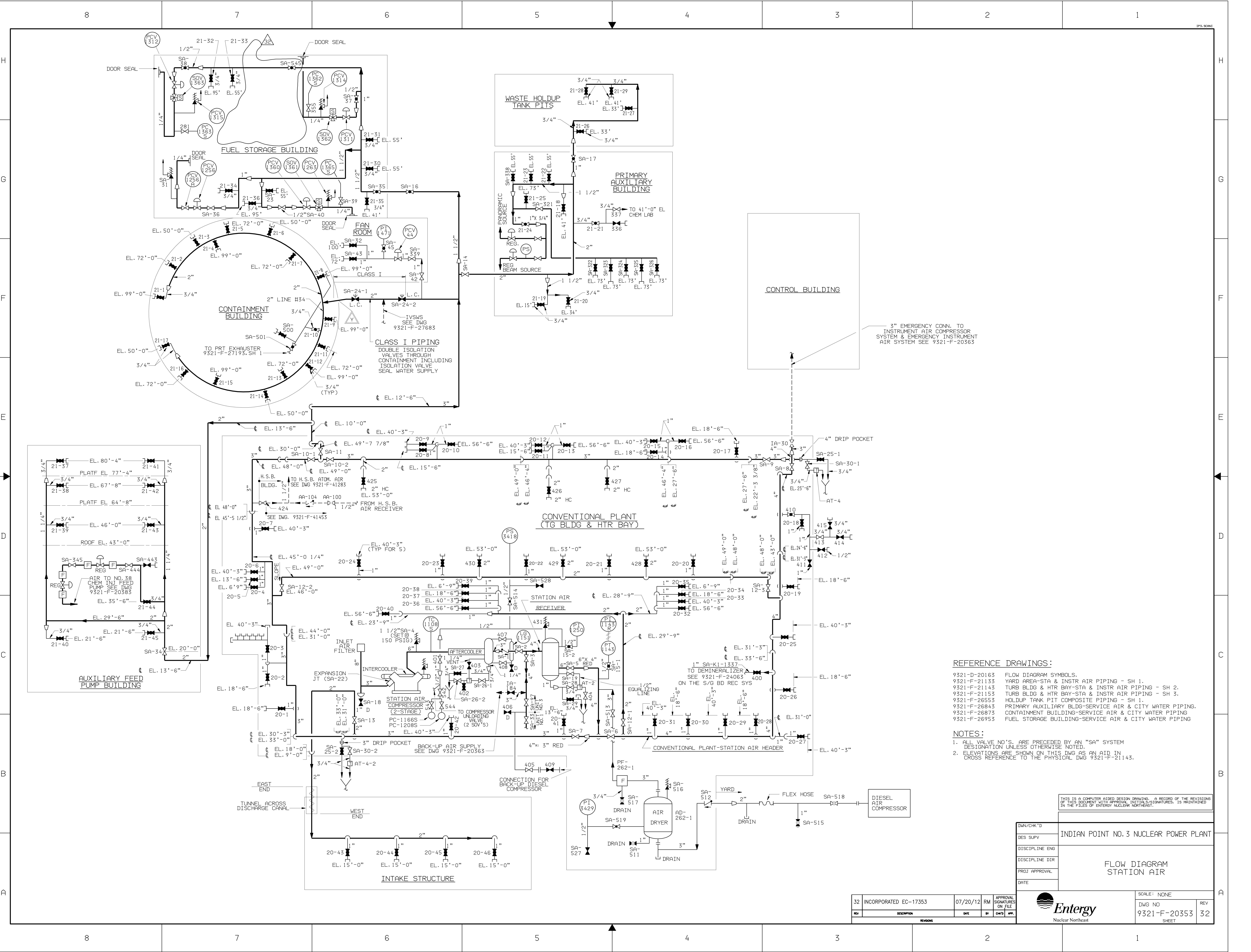
NOTE
FIBER REINFORCED PLASTIC (FRP) PIPE INSTALLED UNDER EC-61372.

THIS IS A COMPUTER AIDED DESIGN DRAWING. A RECORD OF THE REVISIONS OF THIS DOCUMENT WITH APPROVAL INITIALS/SIGNATURES, IS MAINTAINED IN THE FILES OF ENTERGY NUCLEAR NORTHEAST

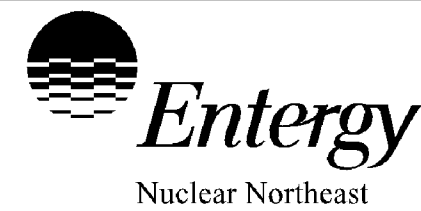
DWN/CHK'D	DES SUPV	DISCIPLINE ENG	DISCIPLINE DIR	PROJ APPROVAL	DATE
INDIAN POINT NO.3 NUCLEAR POWER PLANT					
FLOW DIAGRAM CONDENSER AIR REMOVAL & WATER BOX PRIMING					
Entergy Nuclear Northeast				SCALE NONE	REV
				DWG NO 9321-F-20253	35
				SHEET	

35	INCORPORATED EC-61372	05/19/17	SM	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY	CHKD APP

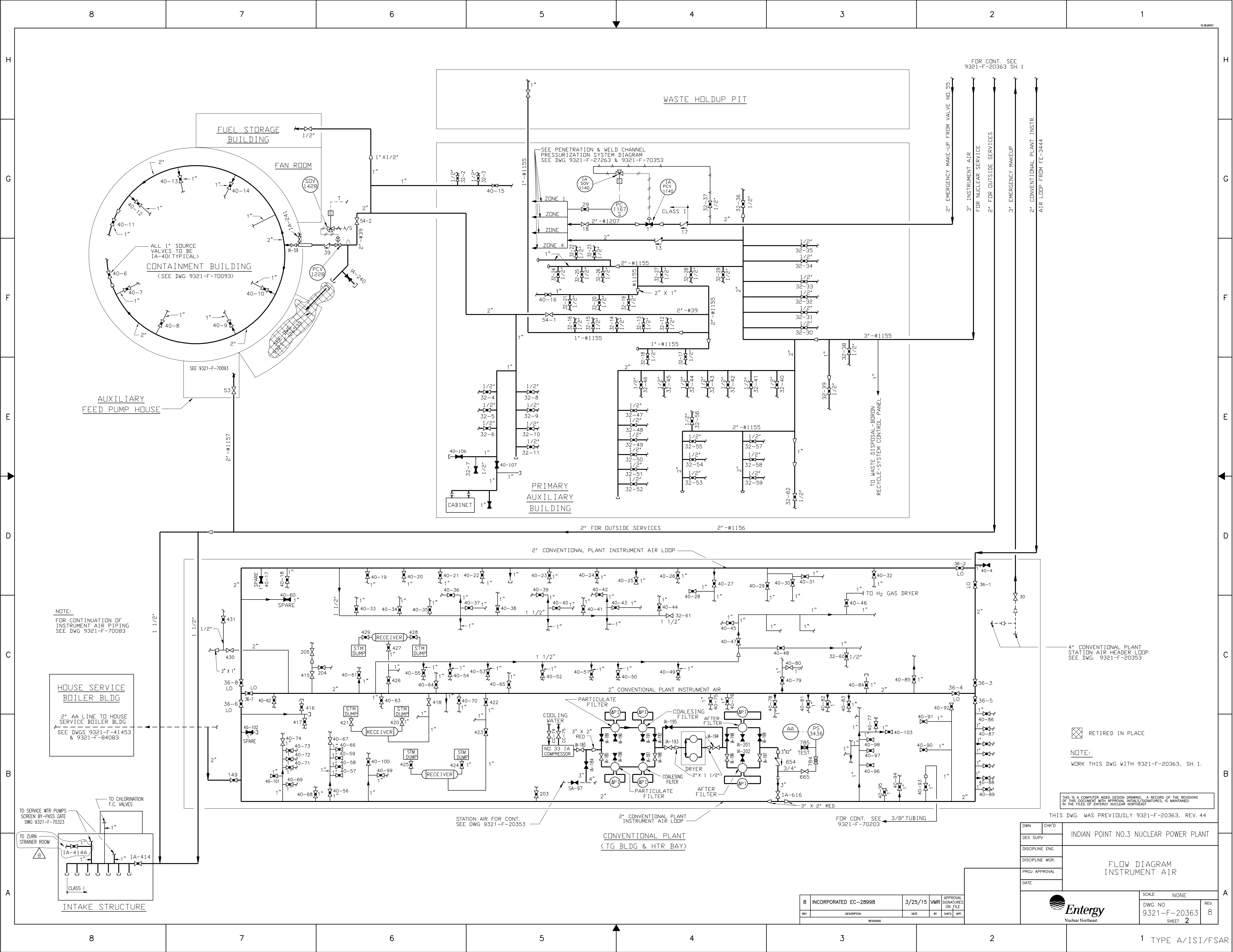
TYPE A/FSAR



32	INCORPORATED EC-17353	07/20/12	RM	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY	CHKD APP.
REVISIONS				



SCALE: NONE	
DWG NO 9321-F-20353 SHEET	REV 32



NOTE:
FOR CONTINUATION OF
INSTRUMENT AIR PIPING
SEE DWG 9321-F-70083

HOUSE SERVICE
BOILER BLDG
2" AA LINE TO HOUSE
SERVICE BOILER BLDG
SEE DWGS 9321-F-41453
& 9321-F-64083

TO SERVICE WTR PUMPS
SCREEN BY-PASS GATE
DWG 9321-F-70323

TO CHLORINATION
F.C. VALVES

TO TURN
STRAINER ROOM

INTAKE STRUCTURE

FOR CONT. SEE
9321-F-20363 SH. 1

4" CONVENTIONAL PLANT
STATION AIR HEADER LOOP
SEE DWG. 9321-F-20353

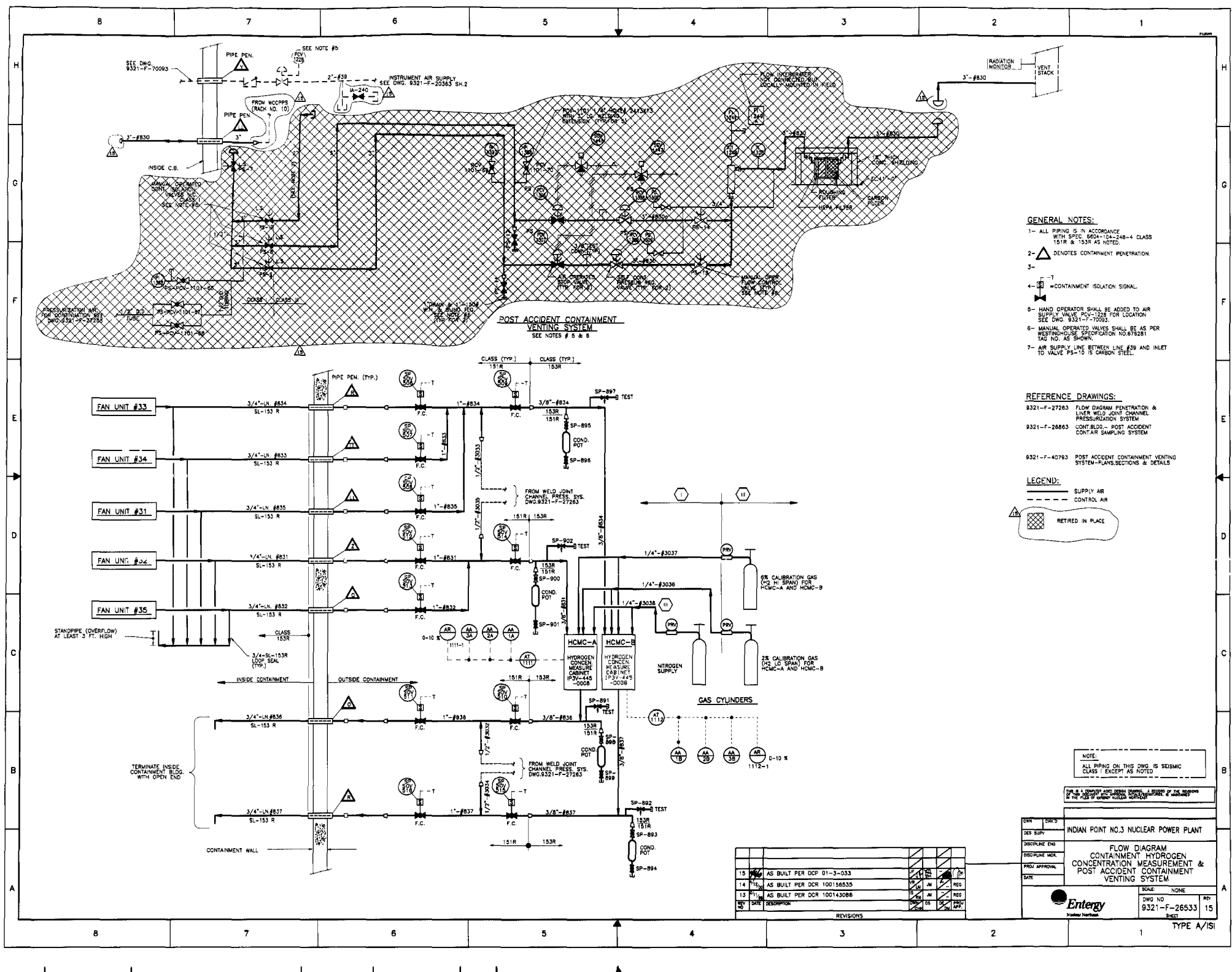
NOTE:
WORK THIS DWG WITH 9321-F-20363, SH. 1.

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OF THIS DOCUMENT WITH APPROVAL NOTICES/INITIALS, IS MAINTAINED
IN THE FILES OF ENTERGY NUCLEAR NORTH EAST

THIS DWG. WAS PREVIOUSLY 9321-F-20363, REV. 44

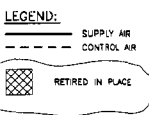
DWN	CHKD	INDIAN POINT NO.3 NUCLEAR POWER PLANT
DES SURV		
DISCIPLINE ENG		
DISCIPLINE MGR		
PROJ APPROVAL		
DATE		
SCALE	NONE	
DWG NO	9321-F-20363	REV 8
SHEET	2	

8	INCORPORATED EC-28998	3/25/15	VMR	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY	CHKD



- GENERAL NOTES:**
- 1- ALL PIPING IS IN ACCORDANCE WITH SPEC. 8604-104-248-4 CLASS 151R & 153R AS NOTED.
 - 2- DENOTES CONTAINMENT PENETRATION.
 - 3- = CONTAINMENT ISOLATION SIGNAL.
 - 4- - T
 - 5- HAND OPERATOR SHALL BE ADDED TO AIR SUPPLY VALVE PCV-1228 FOR LOCATION SEE DWG. 9321-F-70093.
 - 6- MANUAL OPERATED VALVES SHALL BE AS PER WESTINGHOUSE SPECIFICATION NO. 678281 TAG NO. AS SHOWN.
 - 7- AIR SUPPLY LINE BETWEEN LINE #39 AND INLET TO VALVE PS-10 IS CARBON STEEL.

- REFERENCE DRAWINGS:**
- 9321-F-27263 FLOW DIAGRAM PENETRATION & LINER WELD JOINT CHANNEL PRESSURIZATION SYSTEM
 - 9321-F-26863 CONT. BLDG. - POST ACCIDENT CONTAINMENT SAMPLING SYSTEM
 - 9321-F-40793 POST ACCIDENT CONTAINMENT VENTING SYSTEM-PLANS, SECTIONS & DETAILS

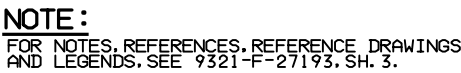


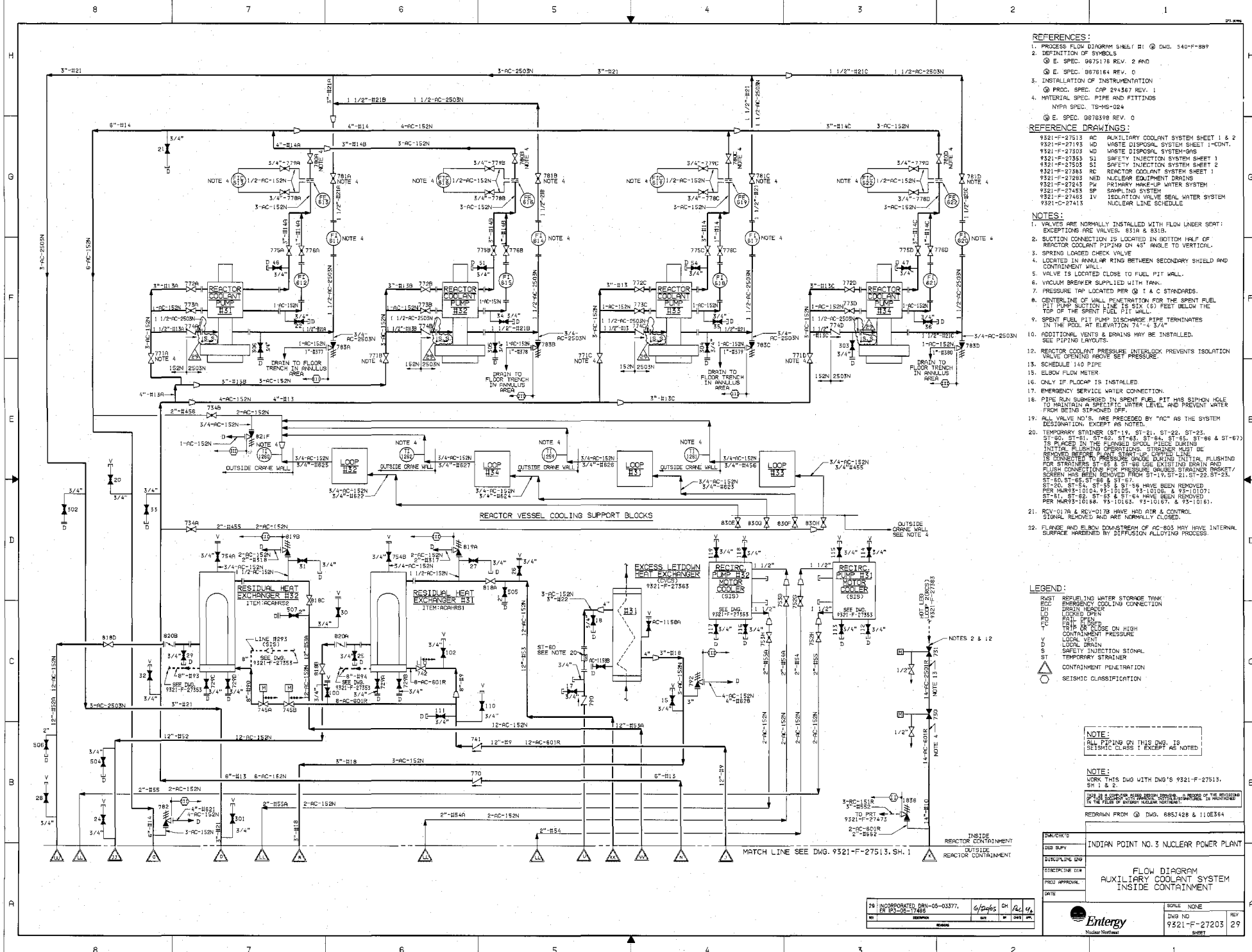
NOTE:
ALL PIPING ON THIS DWG. IS SEISMIC CLASS 1 EXCEPT AS NOTED

DWG. NO. 9321-F-26533		REV. 15	
DES. BY: []		DISCIPLINE: ENG.	
DATE: []		SCALE: NONE	
PROJECT: INDIAN POINT NO. 3 NUCLEAR POWER PLANT		FLOW DIAGRAM CONTAINMENT HYDROGEN CONCENTRATION MEASUREMENT & POST ACCIDENT CONTAINMENT VENTING SYSTEM	
ENTEGY		DWG. NO. 9321-F-26533	
[]		REV. 15	

REV.	DATE	DESCRIPTION	BY	CHKD.	APP'D.
15	AS BUILT PER DCR 01-3-033				
14	AS BUILT PER DCR 100156535				
13	AS BUILT PER DCR 100143086				
12	DESCRIPTION				

TYPE A/ISI





REFERENCES:

- PROCESS FLOW DIAGRAM SHEET #1 @ DWG. 540-F-889
- DEFINITION OF SYMBOLS @ E. SPEC. 0675176 REV. 2 AND @ E. SPEC. 0676164 REV. 0
- INSTALLATION OF INSTRUMENTATION @ PROC. SPEC. CAP 294347 REV. 1
- MATERIAL SPEC. PIPE AND FITTINGS NPPA SPEC. TS-MS-024 @ E. SPEC. 0676398 REV. 0

REFERENCE DRAWINGS:

- 9521-F-27513 AC AUXILIARY COOLANT SYSTEM SHEET 1 & 2
- 9521-F-27193 WD WASTE DISPOSAL SYSTEM SHEET 1-CONT.
- 9521-F-27505 WD WASTE DISPOSAL SYSTEM SHEET 2
- 9521-F-27505 SI SAFETY INJECTION SYSTEM SHEET 1
- 9521-F-27505 SI SAFETY INJECTION SYSTEM SHEET 2
- 9521-F-27505 RC REACTOR COOLANT SYSTEM SHEET 1
- 9521-F-27505 RC REACTOR COOLANT SYSTEM SHEET 2
- 9521-F-27505 RC REACTOR COOLANT SYSTEM SHEET 3
- 9521-F-27505 RC REACTOR COOLANT SYSTEM SHEET 4
- 9521-F-27505 RC REACTOR COOLANT SYSTEM SHEET 5
- 9521-F-27505 RC REACTOR COOLANT SYSTEM SHEET 6
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- 9521-F-27505 RC REACTOR COOLANT SYSTEM SHEET 99
- 9521-F-27505 RC REACTOR COOLANT SYSTEM SHEET 100

NOTES:

- VALVES ARE NORMALLY INSTALLED WITH FLOW UNDER SEAT. EXCEPTIONS ARE VALVES, 831A & 831B.
- SUCTION CONNECTION IS LOCATED IN BOTTOM HALF OF REACTOR COOLANT PIPING AT 45° ANGLE TO VERTICAL.
- SPRING LOADED CHECK VALVE
- LOCATED IN ANNUAL RING BETWEEN SECONDARY SHIELD AND CONTAINMENT WALL.
- VALVE IS LOCATED CLOSE TO FUEL PIT WALL.
- VACUUM BREAKER SUPPLIED WITH TANK.
- PRESSURE TAP LOCATED PER @ I & C STANDARDS.
- CENTERLINE OF WALL PENETRATION FOR THE SPENT FUEL PIT PUMP SUCTION LINE IS 15' (4.5) FEET BELOW THE TOP OF THE SPENT FUEL PIT WALL.
- SPENT FUEL PIT PUMP DISCHARGE PIPE TERMINATES IN THE POOL AT ELEVATION 21'-4" 5/4".
- ADDITIONAL VALVES & DRAINS MAY BE INSTALLED. SEE PIPING LAYOUT.
- REACTOR COOLANT PRESSURE INTERLOCK PREVENTS ISOLATION VALVE OPENING ABOVE SET PRESSURE.
- SCHEDULE 140 PIPE
- ELBOW FLOW METER
- ONLY IF FLOPP IS INSTALLED.
- EMERGENCY SERVICE WATER CONNECTION.
- PIPE RAN SUBMERGED IN SPENT FUEL PIT HAS SIPHON HOLE TO MAINTAIN A SPECIFIC WATER LEVEL AND PREVENT WATER FROM BEING SIPHONED OFF.
- ALL VALVE NO.'S. ARE PRECEDED BY "AC" AS THE SYSTEM DESIGNATION, EXCEPT AS NOTED.
- TEMPORARY STRAINER (ST-19, ST-21, ST-22, ST-23, ST-24, ST-25, ST-26, ST-27, ST-28, ST-29, ST-30, ST-31, ST-32, ST-33, ST-34, ST-35, ST-36 & ST-37) IS PLACED IN THE FLANGED JOINT DURING INITIAL ELABORATION OF THE SYSTEM. STRAINERS MUST BE REMOVED BEFORE PLANT START-UP. CARTRIDGE FILTERS FOR STRAINERS ST-38 & ST-39 USE EXISTING DRAIN AND FLUSH CONNECTIONS FOR DRAINING DURING INITIAL FLUSHING. FLUSH CONNECTIONS FOR DRAINING DURING INITIAL FLUSHING HAVE BEEN REMOVED FROM ST-19, ST-21, ST-22, ST-23, ST-24, ST-25, ST-26 & ST-27.
- ST-20, ST-24, ST-25 & ST-28 HAVE BEEN REMOVED PER MARVIS-10104, 95-10105, 95-10106 & 95-10107. ST-51, ST-52, ST-53 & ST-54 HAVE BEEN REMOVED PER MARVIS-10104, 95-10105, 95-10106 & 95-10107.
- REV-017A & REV-017B HAVE NO ATRM & CONTROL SIGNAL REMOVED AND ARE NORMALLY CLOSED.
- FLANGE AND ELBOW DOWNSTREAM OF AC-803 MAY HAVE INTERNAL SURFACE HARDENED BY DIFFUSION ALLOYING PROCESS.

LEGEND:

- ACST REACTOR COOLANT SYSTEM
- EMERGENCY COOLING CONNECTION
- DRAIN HEADER
- LOADED OPEN
- TRIP OR CLOSE ON HIGH CONTAINMENT PRESSURE
- LOCAL DRAIN
- SAFETY INJECTION SIGNAL
- TEMPORARY STRAINER
- CONTAINMENT PENETRATION
- SEISMIC CLASSIFICATION

NOTE:
ALL PIPING ON THIS DWG. IS SEISMIC CLASS 1 EXCEPT AS NOTED.

NOTE:
WORK THIS DWG WITH DWG'S 9521-F-27513, SH 1 & 2.

THIS IS A COMPUTER GENERATED DRAWING. NO RECORD OF THE REVISIONS IN THE FILE OF ENTRY NUCLEAR THERMIST.

REDRAWN FROM @ DWG. 6853428 & 110584

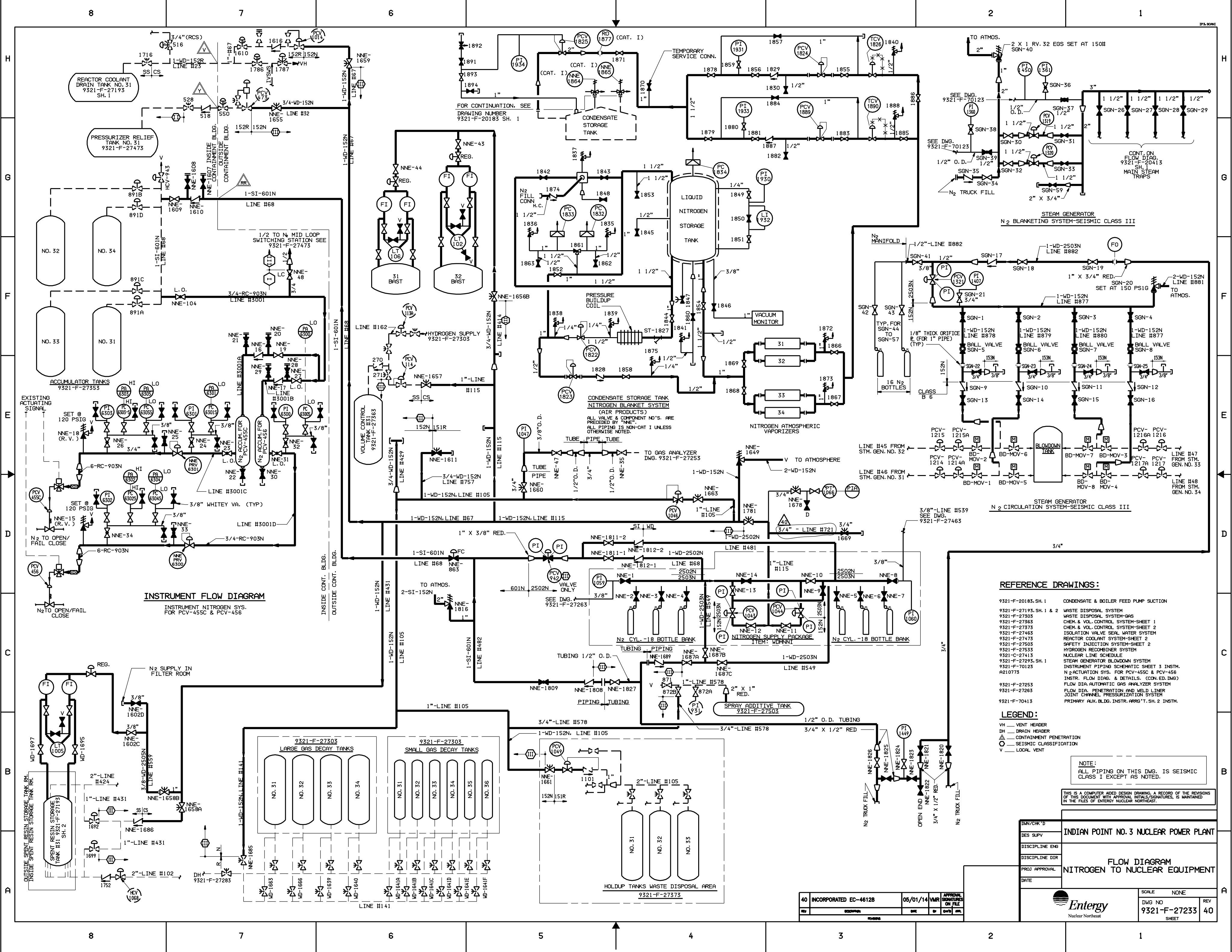
INDIAN POINT NO. 3 NUCLEAR POWER PLANT

AUXILIARY COOLANT SYSTEM
INSIDE CONTAINMENT

Entergy
Nuclear Services

SCALE NONE
DWG NO 9521-F-27203
REV 29

28 INCORPORATED 05-05-03377, 6/20/03 CH /AC/ 29
NO 28 05-05-03377



- REFERENCE DRAWINGS:**
- 9321-F-20183, SH. 1 CONDENSATE & BOILER FEED PUMP SUCTION
 - 9321-F-27193, SH. 1 & 2 WASTE DISPOSAL SYSTEM
 - 9321-F-27303 WASTE DISPOSAL SYSTEM-GAS
 - 9321-F-27365 CHEM. & VOL. CONTROL SYSTEM-SHEET 1
 - 9321-F-27373 CHEM. & VOL. CONTROL SYSTEM-SHEET 2
 - 9321-F-27463 ISOLATION VALVE SEAL WATER SYSTEM
 - 9321-F-27473 REACTOR COOLANT SYSTEM-SHEET 2
 - 9321-F-27503 SAFETY INJECTION SYSTEM-SHEET 2
 - 9321-F-27533 HYDROGEN RECOMBINER SYSTEM
 - 9321-C-27413 NUCLEAR LINE SCHEDULE
 - 9321-F-27293, SH. 1 STEAM GENERATOR BLOWDOWN SYSTEM
 - 9321-F-70123 INSTRUMENT PIPING SCHEMATIC SHEET 3 INSTR.
 - 9321-F-70123 N2 ACTUATION SYS. FOR PCV-455C & PCV-456
 - 9321-F-27253 INSTR. FLOW DIAG. & DETAILS (CON. ED. DWG)
 - 9321-F-27263 FLOW DIA. AUTOMATIC GAS ANALYZER SYSTEM
 - 9321-F-70413 FLOW DIA. PENETRATION AND WELD LINEER JOINT CHANNEL PRESSURIZATION SYSTEM
 - 9321-F-70413 PRIMARY AUX. BLDG. INSTR. ROOM T. SH. 2 INSTR.

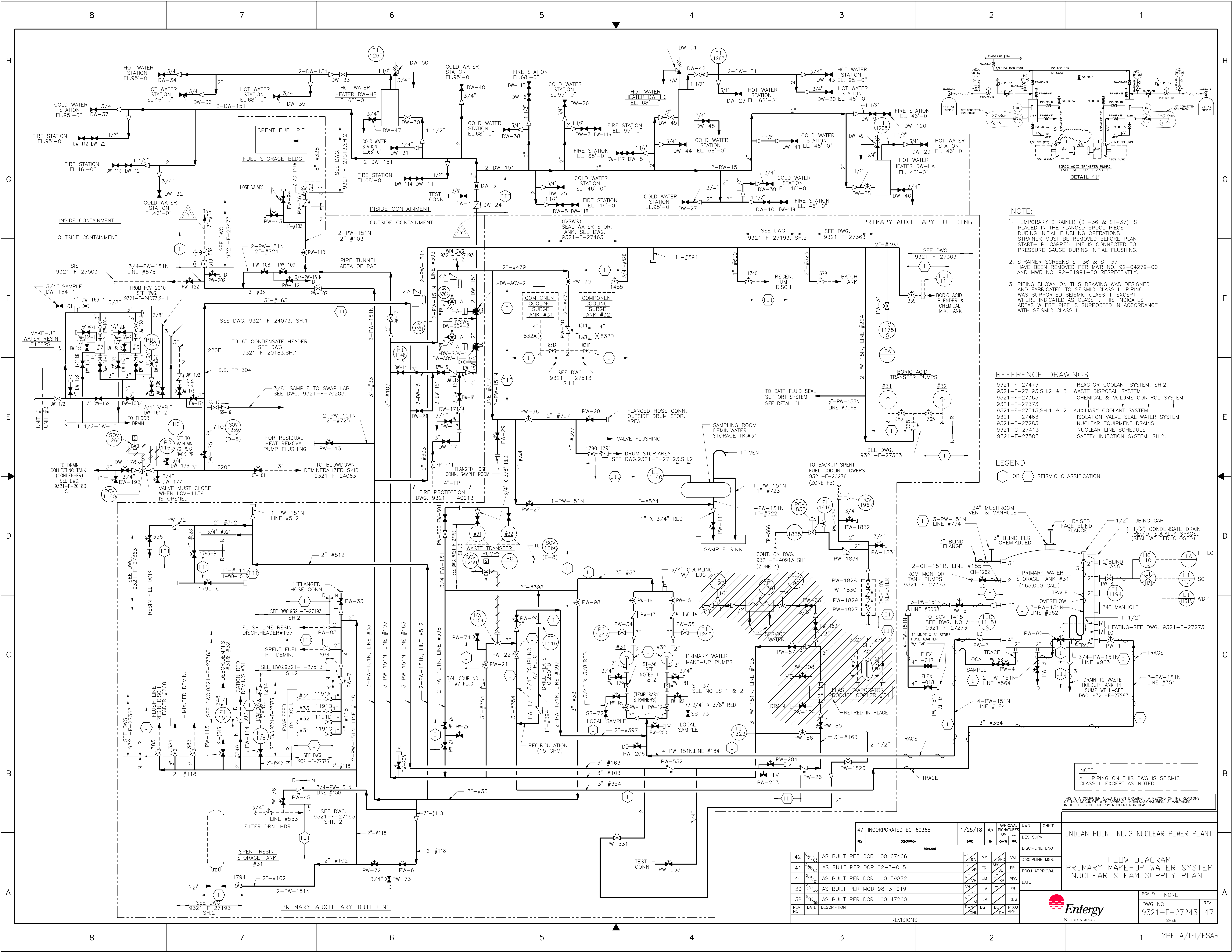
- LEGEND:**
- VH VENT HEADER
 - DH DRAIN HEADER
 - CONTAINMENT PENETRATION
 - SEISMIC CLASSIFICATION
 - V LOCAL VENT

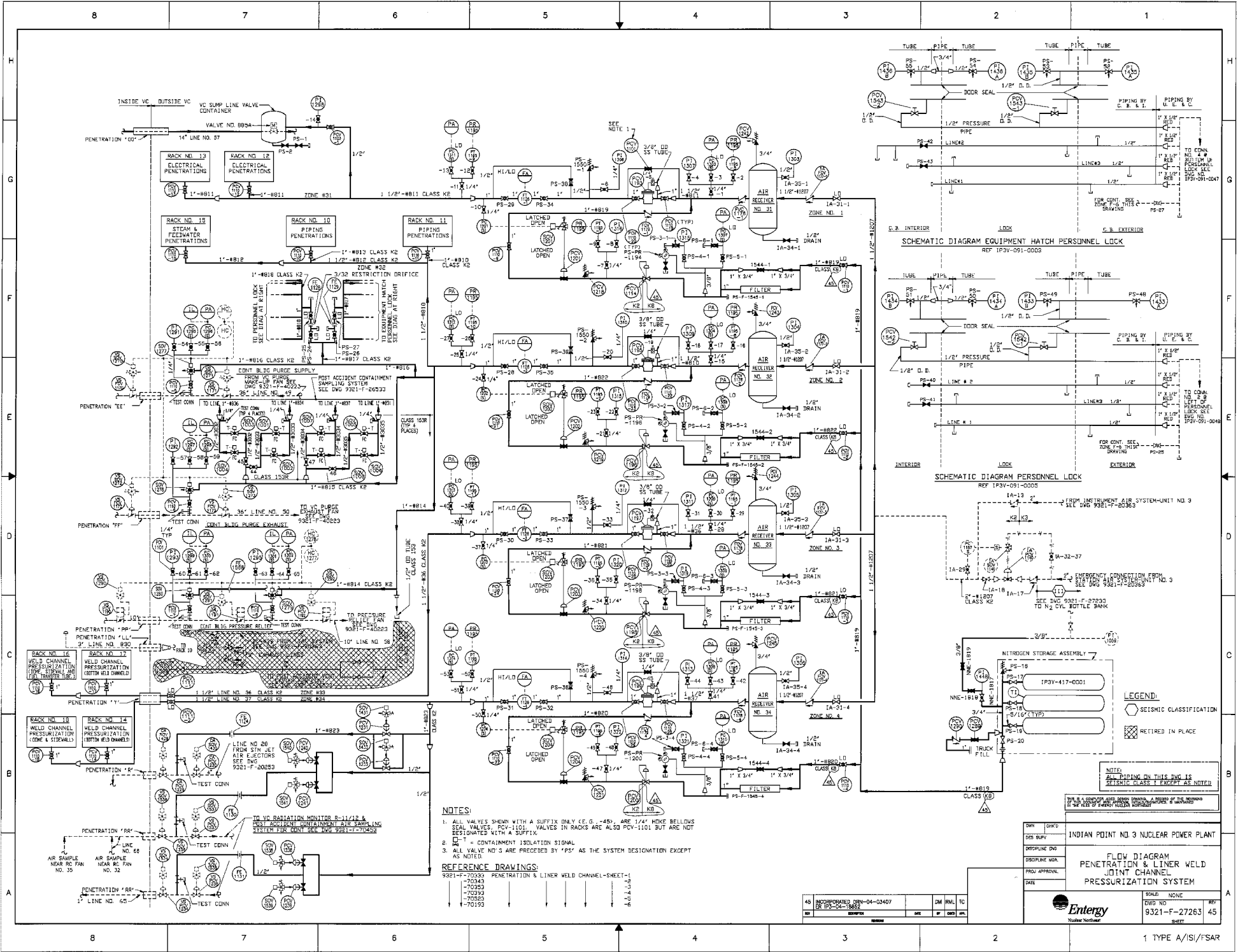
NOTE:
ALL PIPING ON THIS DWG. IS SEISMIC CLASS I EXCEPT AS NOTED.

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DWG/CHK'D	DES SUPV	DISCIPLINE ENG	DISCIPLINE DIR	PROJ APPROVAL	DATE
INDIAN POINT NO. 3 NUCLEAR POWER PLANT					
FLOW DIAGRAM					
NITROGEN TO NUCLEAR EQUIPMENT					
SCALE NONE					
DWG NO 9321-F-27233					
REV 40					
SHEET					

40	INCORPORATED EC-46128	05/01/14	VMR	APPROVAL	SIGNATURES	ON FILE
REV	DESCRIPTION	DATE	BY	CHKD	APPD	





NOTES:

1. All valves shown with a suffix (e.g., -45) are 1/4" NPT BELLWELL SEAL VALVES, PCV-1101. VALVES IN RACKS ARE ALSO PCV-1101 BUT ARE NOT DESIGNATED WITH A SUFFIX.
2. "C" = CONTAINMENT ISOLATION SIGNAL
3. ALL VALVE TAGS ARE PRECEDED BY "PS" AS THE SYSTEM DESIGNATION EXCEPT AS NOTED.

REFERENCE DRAWINGS:

9321-F-70330 PENETRATION & LINER WELD CHANNEL-SHEET-1
70343
70353
70363
70373
70383
70393

45 INCORPORATED 04-04-07
BY 52-16822

OWN	CHD	INDIAN POINT NO. 3 NUCLEAR POWER PLANT
DES	BY	
DRG	NO	
PROJ	APPROVAL	
DATE		
FLOW DIAGRAM PENETRATION & LINER WELD JOINT CHANNEL PRESSURIZATION SYSTEM		
Entergy Nuclear Services		
SCALE	NONE	
THIS DWG	9321-F-27263	45
REV		

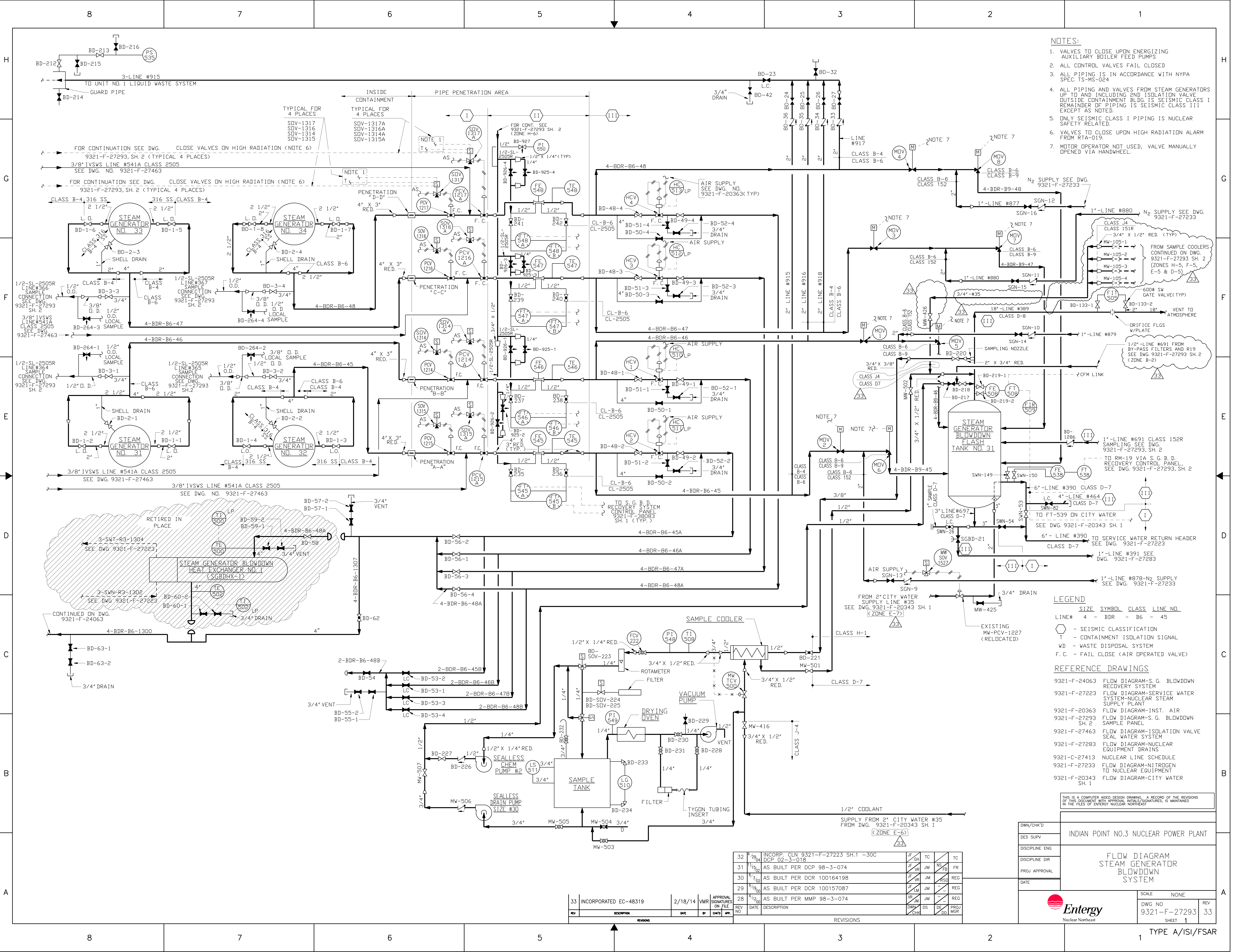
SCHEMATIC DIAGRAM EQUIPMENT HATCH PERSONNEL LOCK
REF 1P3V-091-0003

SCHEMATIC DIAGRAM PERSONNEL LOCK
REF 1P3V-091-0005

LEGEND:

- SEISMIC CLASSIFICATION
- ⊗ RETIRED IN PLACE

NOTE:
ALL PIPING ON THIS DWG IS
SEISMIC CLASS 1 EXCEPT AS NOTED



NOTES:

1. VALVES TO CLOSE UPON ENERGIZING AUXILIARY BOILER FEED PUMPS
2. ALL CONTROL VALVES FAIL CLOSED
3. ALL PIPING IS IN ACCORDANCE WITH NYPA SPEC. TS-MS-024
4. ALL PIPING AND VALVES FROM STEAM GENERATORS UP TO AND INCLUDING 2ND ISOLATION VALVE OUTSIDE CONTAINMENT BLDG. IS SEISMIC CLASS I. REMAINDER OF PIPING IS SEISMIC CLASS III EXCEPT AS NOTED.
5. ONLY SEISMIC CLASS I PIPING IS NUCLEAR SAFETY RELATED.
6. VALVES TO CLOSE UPON HIGH RADIATION ALARM FROM RTA-019.
7. MOTOR OPERATOR NOT USED, VALVE MANUALLY OPENED VIA HANDWHEEL.

LEGEND

SIZE	SYMBOL	CLASS	LINE NO.
LINE# 4	- BDR	- B6 - 45	
○	- SEISMIC CLASSIFICATION		
T	- CONTAINMENT ISOLATION SIGNAL		
WD	- WASTE DISPOSAL SYSTEM		
F.C.	- FAIL CLOSE (AIR OPERATED VALVE)		

REFERENCE DRAWINGS

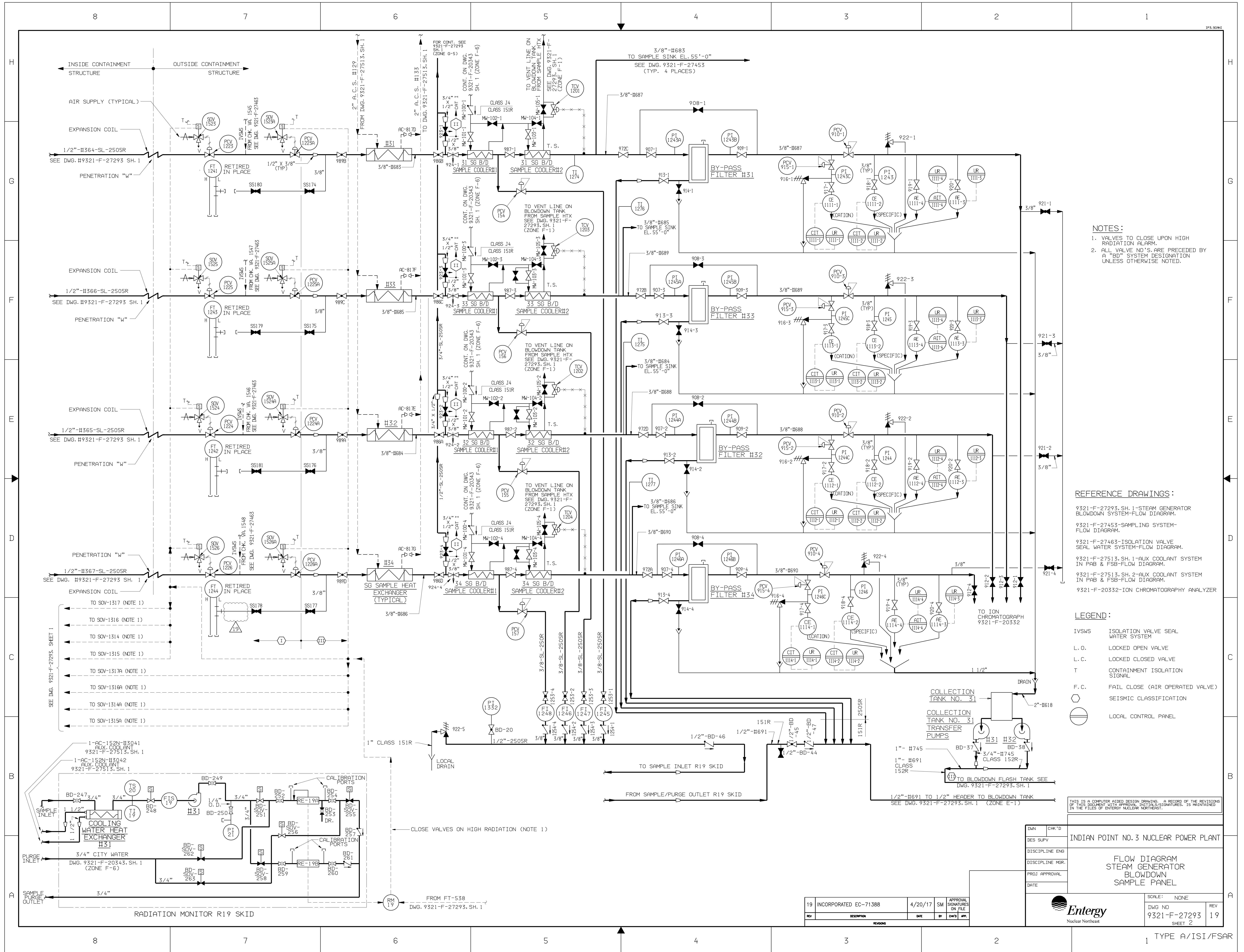
9321-F-24063	FLOW DIAGRAM-S.G. BLOWDOWN RECOVERY SYSTEM
9321-F-27223	FLOW DIAGRAM-SERVICE WATER SYSTEM-NUCLEAR STEAM SUPPLY PLANT
9321-F-20363	FLOW DIAGRAM-INST. AIR
9321-F-27293 SH. 2	FLOW DIAGRAM-S.G. BLOWDOWN SAMPLE PANEL
9321-F-27463	FLOW DIAGRAM-ISOLATION VALVE SEAL WATER SYSTEM
9321-F-27283	FLOW DIAGRAM-NUCLEAR EQUIPMENT DRAINS
9321-C-27413	NUCLEAR LINE SCHEDULE
9321-F-27233	FLOW DIAGRAM-NITROGEN TO NUCLEAR EQUIPMENT
9321-F-20343 SH. 1	FLOW DIAGRAM-CITY WATER

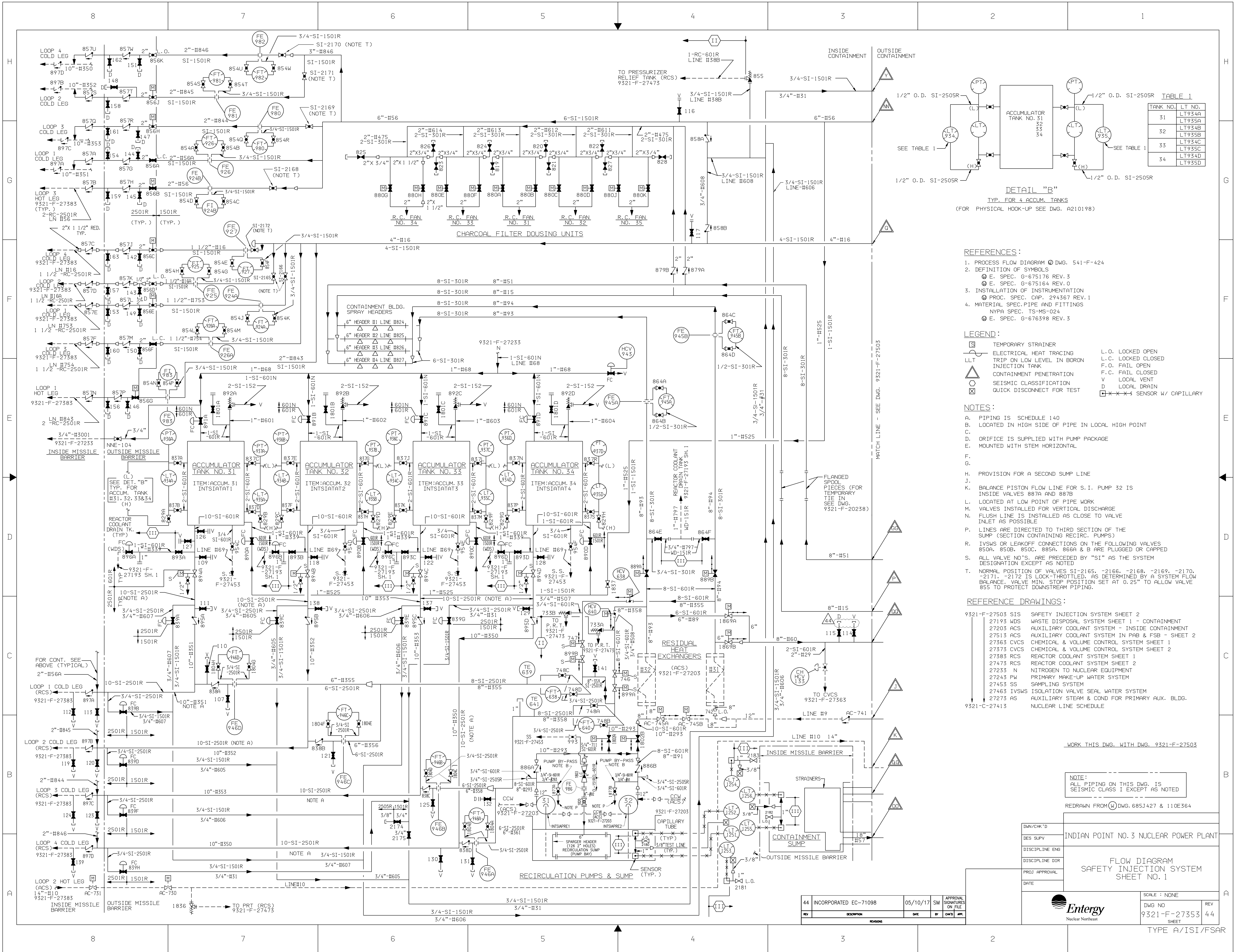
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DWN/CHK'D	INDIAN POINT NO.3 NUCLEAR POWER PLANT
DES. SUPV	
DISCIPLINE ENG	
DISCIPLINE DIR	FLOW DIAGRAM STEAM GENERATOR BLOWDOWN SYSTEM
PROJ. APPROVAL	
DATE	
SCALE	NONE
DWG NO	9321-F-27293
SHEET	1
REV	33



REV	DESCRIPTION	DATE	BY	CHKD	APP	REV	DATE	DESCRIPTION	DWN	CHK	DES	PROJ
33	INCORPORATED EC-48319	2/18/14	VMR			28	1/12/00	AS BUILT PER MMP 98-3-074	VR	JM	DS	DD
32	INCORP. CLN 9321-F-27223 SH.1 -30C DCP 02-3-018					31	1/15/00	AS BUILT PER DCP 98-3-074	JF	VR	JM	FR
30	AS BUILT PER DCR 100164198					29	6/19/00	AS BUILT PER DCR 100157087	JF	VR	JM	REG





- REFERENCES:
- PROCESS FLOW DIAGRAM DWG. 541-F-424
 - DEFINITION OF SYMBOLS
 - E. SPEC. G-675176 REV. 3
 - E. SPEC. G-675164 REV. 0
 - INSTALLATION OF INSTRUMENTATION
 - PROC. SPEC. CAP. 294367 REV. 1
 - NYP&A SPEC. TS-MS-024
 - E. SPEC. G-676398 REV. 3
 - MATERIAL SPEC. PIPE AND FITTINGS
- LEGEND:
- TEMPORARY STRAINER
 - ELECTRICAL HEAT TRACING
 - TRIP ON LOW LEVEL IN BORON INJECTION TANK
 - CONTAINMENT PENETRATION
 - SEISMIC CLASSIFICATION
 - QUICK DISCONNECT FOR TEST
 - L.O. LOCKED OPEN
 - L.C. LOCKED CLOSED
 - F.O. FAIL OPEN
 - F.C. FAIL CLOSED
 - V. LOCAL VENT
 - D. LOCAL DRAIN
 - SENSOR W/ CAPILLARY
- NOTES:
- PIPING IS SCHEDULE 140
 - LOCATED IN HIGH SIDE OF PIPE IN LOCAL HIGH POINT
 - ORIFICE IS SUPPLIED WITH PUMP PACKAGE
 - MOUNTED WITH STEM HORIZONTAL
 -
 -
 -
 - PROVISION FOR A SECOND SUMP LINE
 -
 - BALANCE PISTON FLOW LINE FOR S.I. PUMP 32 IS INSIDE VALVES 887A AND 887B
 - LOCATED AT LOW POINT OF PIPE WORK
 - VALVES INSTALLED FOR VERTICAL DISCHARGE
 - FLUSH LINE IS INSTALLED AS CLOSE TO VALVE INLET AS POSSIBLE
 - INES ARE DIRECTED TO THIRD SECTION OF THE SUMP (SECTION CONTAINING RECIRC. PUMPS)
 - IVSWS OR LEAKOFF CONNECTIONS ON THE FOLLOWING VALVES: 850A, 850B, 850C, 885A, 886A & B ARE PLUGGED OR CAPPED
 - ALL VALVE NO.'S. ARE PRECEDED BY "SI" AS THE SYSTEM DESIGNATION EXCEPT AS NOTED
 - NORMAL POSITION OF VALVES SI-2165, -2166, -2168, -2169, -2170, -2171, -2172 IS LOCK-THROTTLED, AS DETERMINED BY A SYSTEM FLOW BALANCE. VALVE MIN. STOP POSITION SET AT 0.25" TO ALLOW VALVE 855 TO PROTECT DOWNSTREAM PIPING.
- REFERENCE DRAWINGS:
- 9321-F-27503 SIS SAFETY INJECTION SYSTEM SHEET 2
 - 27193 WDS WASTE DISPOSAL SYSTEM SHEET 1 - CONTAINMENT
 - 27203 ACS AUXILIARY COOLANT SYSTEM - INSIDE CONTAINMENT
 - 27513 ACS AUXILIARY COOLANT SYSTEM IN PAB & FSB - SHEET 2
 - 27363 CVCS CHEMICAL & VOLUME CONTROL SYSTEM SHEET 1
 - 27373 CVCS CHEMICAL & VOLUME CONTROL SYSTEM SHEET 2
 - 27383 RCS REACTOR COOLANT SYSTEM SHEET 1
 - 27473 RCS REACTOR COOLANT SYSTEM SHEET 2
 - 27233 N NITROGEN TO NUCLEAR EQUIPMENT
 - 27243 PW PRIMARY MAKE-UP WATER SYSTEM
 - 27453 SS SAMPLING SYSTEM
 - 27463 IVSWS ISOLATION VALVE SEAL WATER SYSTEM
 - 27273 AS AUXILIARY STEAM & COND FOR PRIMARY AUX. BLDG.
 - 9321-C-27413 NUCLEAR LINE SCHEDULE

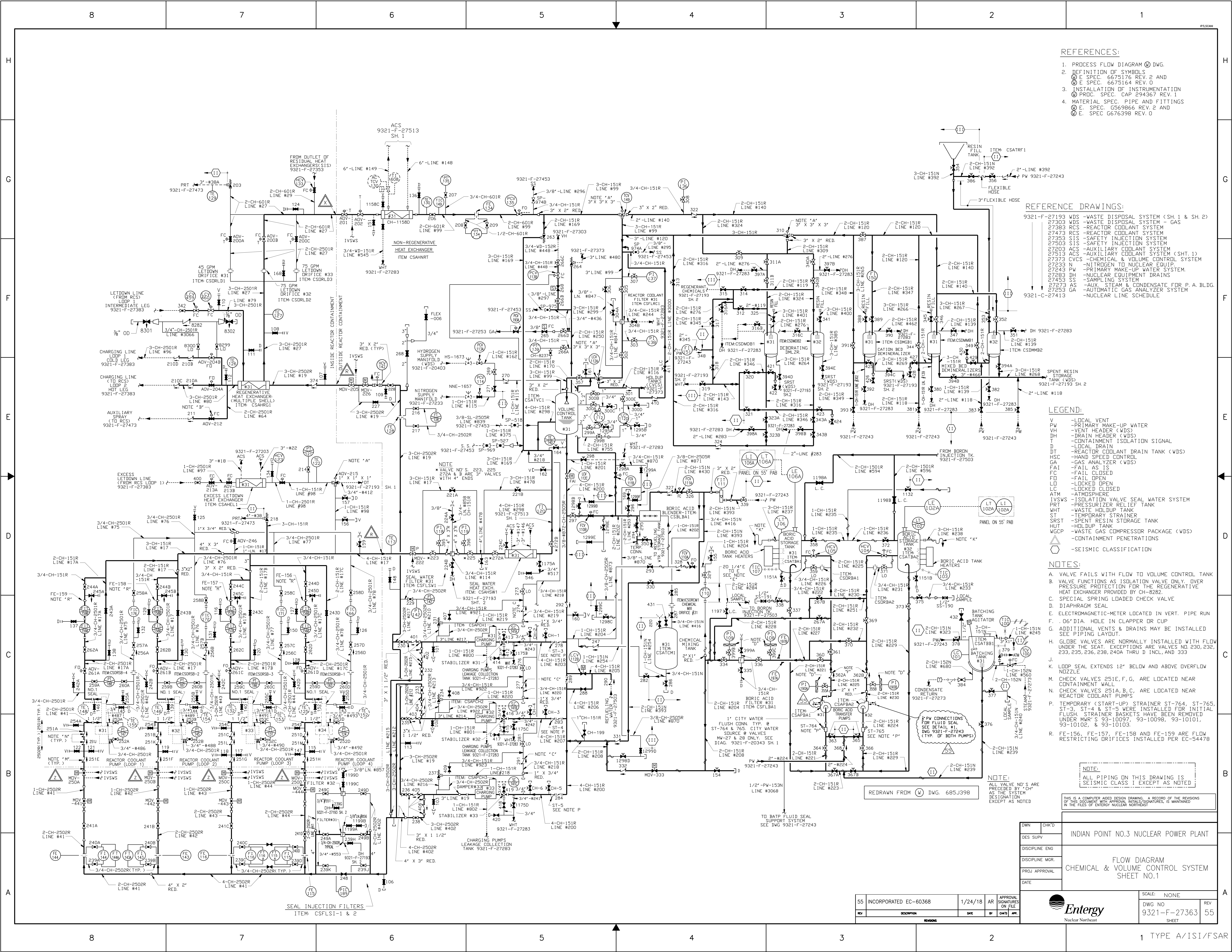
WORK THIS DWG. WITH DWG. 9321-F-27503

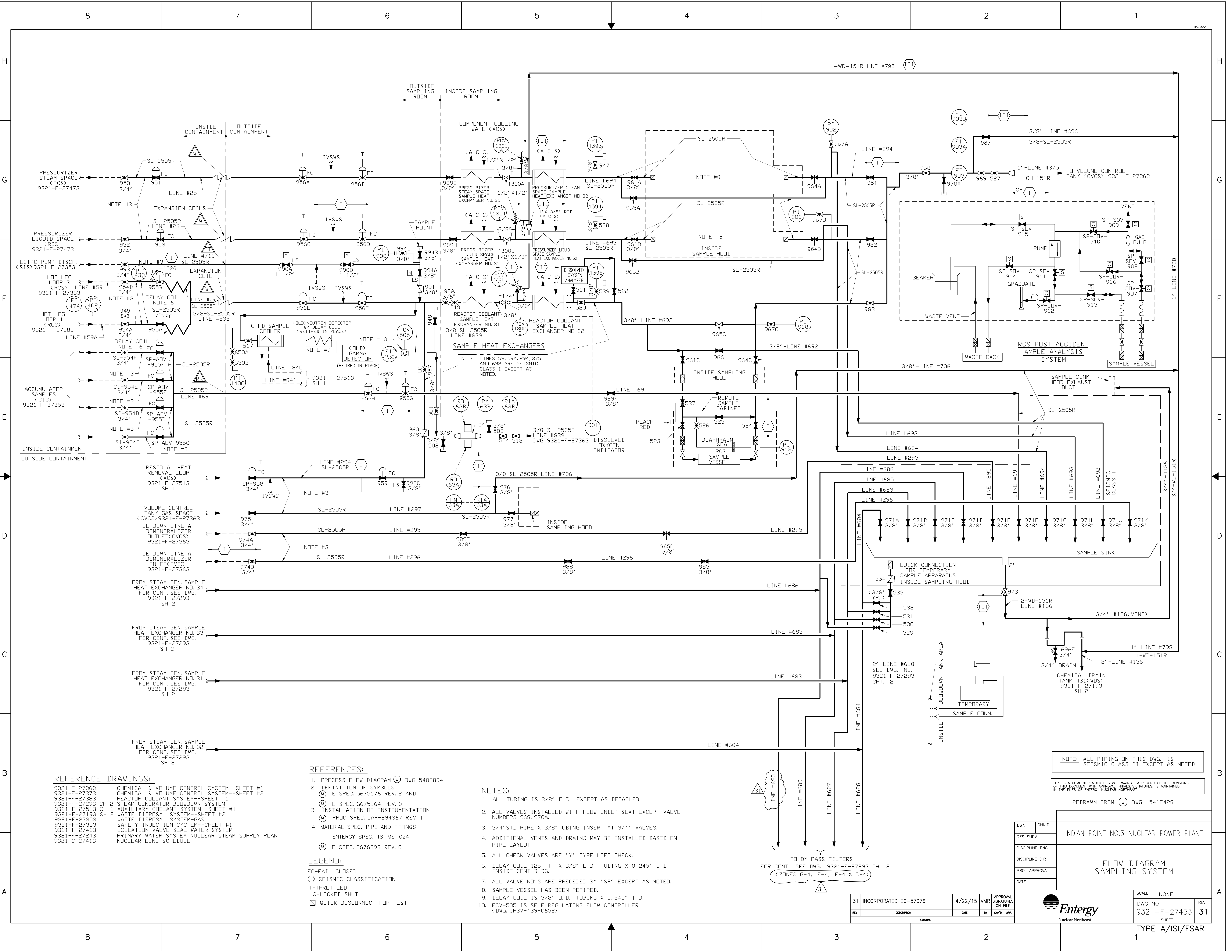
NOTE:
ALL PIPING ON THIS DWG. IS SEISMIC CLASS I EXCEPT AS NOTED

REDRAWN FROM (W) DWG. 685J427 & 110E364

DWG/CHK'D	DES SUPV	DISCIPLINE ENG	DISCIPLINE DIR	PROJ APPROVAL	DATE
INDIAN POINT NO. 3 NUCLEAR POWER PLANT					
FLOW DIAGRAM SAFETY INJECTION SYSTEM SHEET NO. 1					
SCALE: NONE					
DWG NO 9321-F-27353					
SHEET 44					
TYPE A/ISI/FSAR					

44	INCORPORATED EC-71098	05/10/17	SM	APPROVAL	ON FILE
REV	DESCRIPTION	DATE	BY	CHK'D	APP.
REVISIONS					





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

- REFERENCES:
- 1. PROCESS FLOW DIAGRAM (PFD) DWG. 540F894
 - 2. DEFINITION OF SYMBOLS
 - (M) E. SPEC. G675176 REV. 2 AND
 - (M) E. SPEC. G675164 REV. 0
 - 3. INSTALLATION OF INSTRUMENTATION
 - (M) PROC. SPEC. CAP-294367 REV. 1
 - 4. MATERIAL SPEC. PIPE AND FITTINGS
 - ENTERTY SPEC. TS-MS-024
 - (M) E. SPEC. G676398 REV. 0
- LEGEND:
- FC-FAIL CLOSED
 - SEISMIC CLASSIFICATION
 - T-THROTTLED
 - LS-LOCKED SHUT
 - QUICK DISCONNECT FOR TEST
- 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 INSTALLED BASED ON PIPE LAYOUT.
 - 5. ALL CHECK VALVES ARE "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.
 - 9. DELAY COIL IS 3/8" O.D. TUBING X 0.245" I.D.
 - 10. FCV-505 IS SELF REGULATING FLOW CONTROLLER (DWG. 1P3V-439-0652).

TO BY-PASS FILTERS
FOR CONT. SEE DWG. 9321-F-27293 SH. 2
(ZONES G-4, F-4, E-4 & D-4)

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

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REDRAWN FROM (M) DWG. 541F428

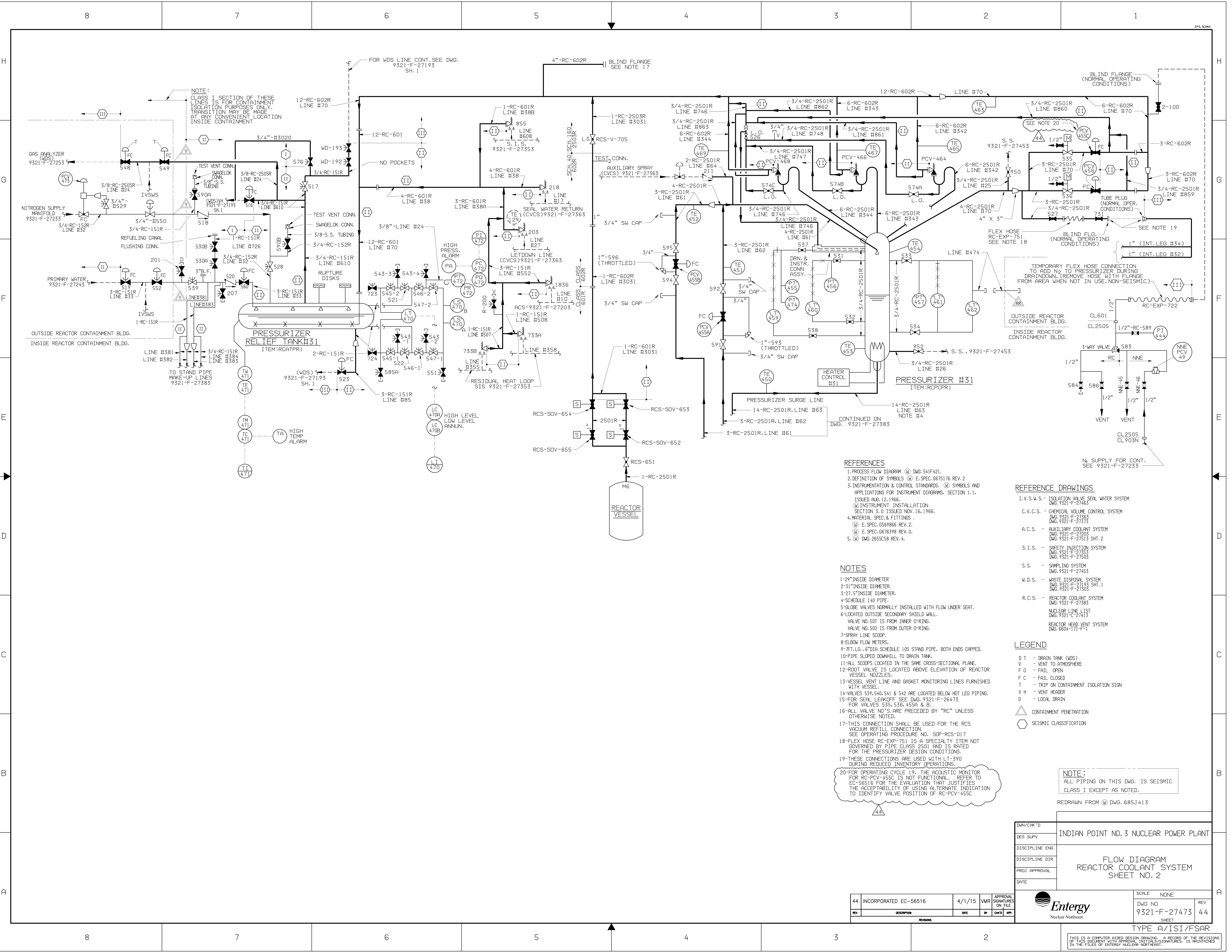
DWN	CHK'D	INDIAN POINT NO.3 NUCLEAR POWER PLANT	
DES SUPV			
DISCIPLINE ENG		FLOW DIAGRAM SAMPLING SYSTEM	
DISCIPLINE DIR			
PROJ APPROVAL			
DATE			

31	INCORPORATED EC-57076	4/22/15	VMR	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY	CHK'D

SCALE: NONE	REV
DWG NO 9321-F-27453	31
SHEET	



TYPE A/ISI/FSAR



REFERENCES

1. PROCESS FLOW DIAGRAM (PFD) DWG. 541F421.
2. DEFINITION OF SYMBOLS (D.S.) E.SPEC. 6675176 REV. 2
3. INSTRUMENTATION & CONTROL STANDARDS. (I.C.S.) SYMBOLS AND APPLICATIONS FOR INSTRUMENT DIAGRAMS, SECTION 1.1.
4. MATERIAL SPEC. & FITTINGS
(M.S.F.) E.SPEC. 6569866 REV. 2.
(M.S.F.) E.SPEC. 6676398 REV. 0.
(M.S.F.) DWG. 2655C58 REV. 4.

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-LOCATED OUTSIDE SECONDARY SHIELD WALL.
- 7-SPRAY LINE SCOOP
- 8-ELBOW FLOW METERS
- 9-7FT. LG. 6" DIA. SCHEDULE 10S STAND PIPE, BOTH ENDS CAPPED.
- 10-PIPE SLOPED DOWNHILL TO DRAIN TANK.
- 11-ALL SCOOPS LOCATED IN THE SAME CROSS-SECTIONAL PLANE.
- 12-ROOT VALVE IS LOCATED ABOVE ELEVATION OF REACTOR VESSEL NOZZLES
- 13-VESSEL VENT LINE AND GASKET MONITORING LINES FURNISHED WITH VESSEL
- 14-VALVES 539, 540, 541 & 542 ARE LOCATED BELOW HOT LEG PIPING.
- 15-FOR SEAL LEAKOFF, SEE DWG. 9321-F-26473 FOR VALVES 535, 536, 455A & B.
- 16-ALL VALVE NO.'S ARE PRECEDED BY "RC" UNLESS OTHERWISE NOTED.
- 17-THIS CONNECTION SHALL BE USED FOR THE RCS VACUUM REFILL CONNECTION. SEE OPERATING PROCEDURE NO. SOP-RCS-017
- 18-FLEX HOSE RC-EXP-751 IS A SPECIALTY ITEM NOT GOVERNED BY PIPE CLASS 2501 AND IS RATED FOR THE PRESSURIZER DESIGN CONDITIONS.
- 19-THese CONNECTIONS ARE USED WITH LT-390 DURING REDUCED INVENTORY OPERATIONS.
- 20-FOR OPERATING CYCLE 19, THE ACOUSTIC MONITOR FOR RC-PCV-455C IS NOT FUNCTIONAL. REFER TO EC-56516 FOR THE EVALUATION THAT JUSTIFIES THE ACCEPTABILITY OF USING ALTERNATE INDICATION TO IDENTIFY VALVE POSITION OF RC-PCV-455C

REFERENCE DRAWINGS

- I.V.S.W.S. - ISOLATION VALVE SEAL WATER SYSTEM
DWG. 9321-F-27485
- C.V.C.S. - CHEMICAL VOLUME CONTROL SYSTEM
DWG. 9321-F-27363
DWG. 9321-F-27373
- A.C.S. - AUXILIARY COOLANT SYSTEM
DWG. 9321-F-27203
DWG. 9321-F-27513 SHT. 2
- S.I.S. - SAFETY INJECTION SYSTEM
DWG. 9321-F-27353
DWG. 9321-F-27503
- S.S. - SAMPLING SYSTEM
DWG. 9321-F-27453
- W.D.S. - WASTE DISPOSAL SYSTEM
DWG. 9321-F-27193 SHT. 1
DWG. 9321-F-27303
- R.C.S. - REACTOR COOLANT SYSTEM
DWG. 9321-F-27383
- NUCLEAR LINE LIST
DWG. 9321-C-27413
- REACTOR HEAD VENT SYSTEM
DWG. 6604-171-F-1

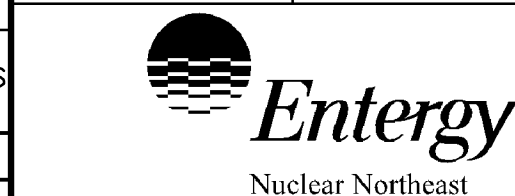
LEGEND

- 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
- CONTAINMENT PENETRATION
- SEISMIC CLASSIFICATION

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

REDRAWN FROM (Q) DWG. 685J413

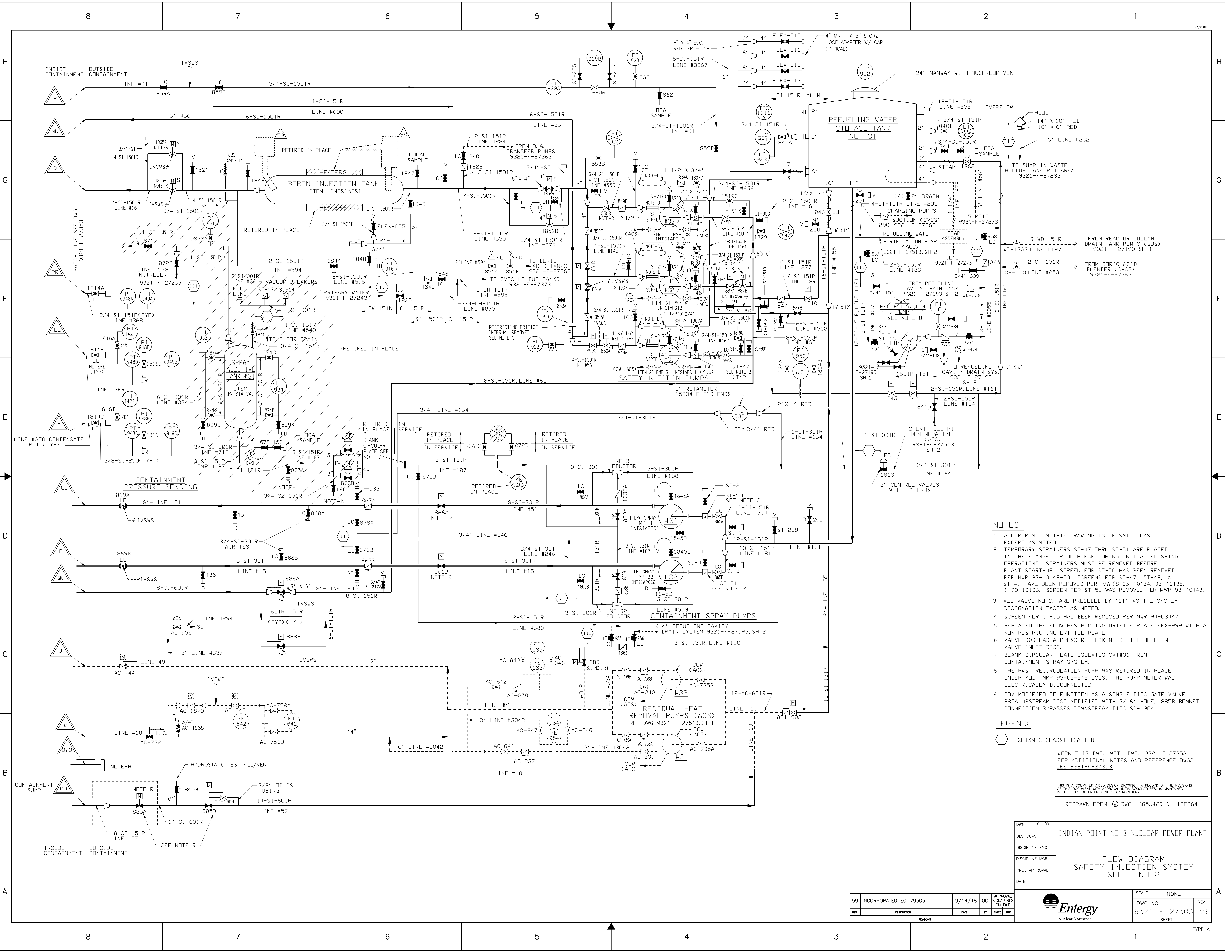
DWG/CHK'D	INDIAN POINT NO. 3 NUCLEAR POWER PLANT
DES SUPV	
DISCIPLINE ENG	
DISCIPLINE DIR	
PROJ APPROVAL	
DATE	



SCALE NONE
DWG NO 9321-F-27473
SHEET 44

REV	DESCRIPTION	DATE	BY	CHKD	APP.
44	INCORPORATED EC-56516	4/1/15	VMR		

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- NOTES:
- ALL PIPING ON THIS DRAWING IS SEISMIC CLASS 1 EXCEPT AS NOTED.
 - TEMPORARY STRAINERS ST-47 THRU ST-51 ARE PLACED IN THE FLANGED SPOOL PIECE DURING INITIAL FLUSHING OPERATIONS. STRAINERS MUST BE REMOVED BEFORE PLANT START-UP. SCREEN FOR ST-50 HAS BEEN REMOVED PER MWR 93-10142-00. SCREENS FOR ST-47, ST-48, & ST-49 HAVE BEEN REMOVED PER MWR'S 93-10134, 93-10135, & 93-10136. SCREEN FOR ST-51 WAS REMOVED PER MWR 93-10143.
 - ALL VALVE NO.'S. ARE PRECEDED BY 'SI' AS THE SYSTEM DESIGNATION EXCEPT AS NOTED.
 - SCREEN FOR ST-15 HAS BEEN REMOVED PER MWR 94-03447.
 - REPLACED THE FLOW RESTRICTING ORIFICE PLATE FEX-999 WITH A NON-RESTRICTING ORIFICE PLATE.
 - VALVE 883 HAS A PRESSURE LOCKING RELIEF HOLE IN VALVE INLET DISC.
 - BLANK CIRCULAR PLATE ISOLATES SAT#31 FROM CONTAINMENT SPRAY SYSTEM.
 - THE RWST RECIRCULATION PUMP WAS RETIRED IN PLACE. UNDER MOD. MMP 93-03-242 CCVCS, THE PUMP MOTOR WAS ELECTRICALLY DISCONNECTED.
 - DDV MODIFIED TO FUNCTION AS A SINGLE DISC GATE VALVE. 885A UPSTREAM DISC MODIFIED WITH 3/16" HOLE, 885B BONNET CONNECTION BYPASSES DOWNSTREAM DISC SI-1904.

LEGEND:

○ SEISMIC CLASSIFICATION

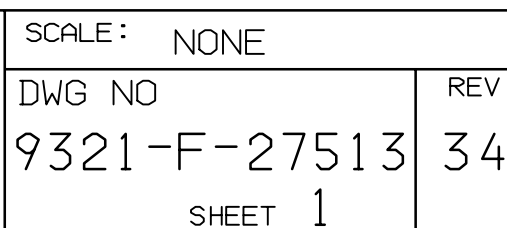
WORK THIS DWG. WITH DWG. 9321-F-27353 FOR ADDITIONAL NOTES AND REFERENCE DWGS. SEE 9321-F-27353

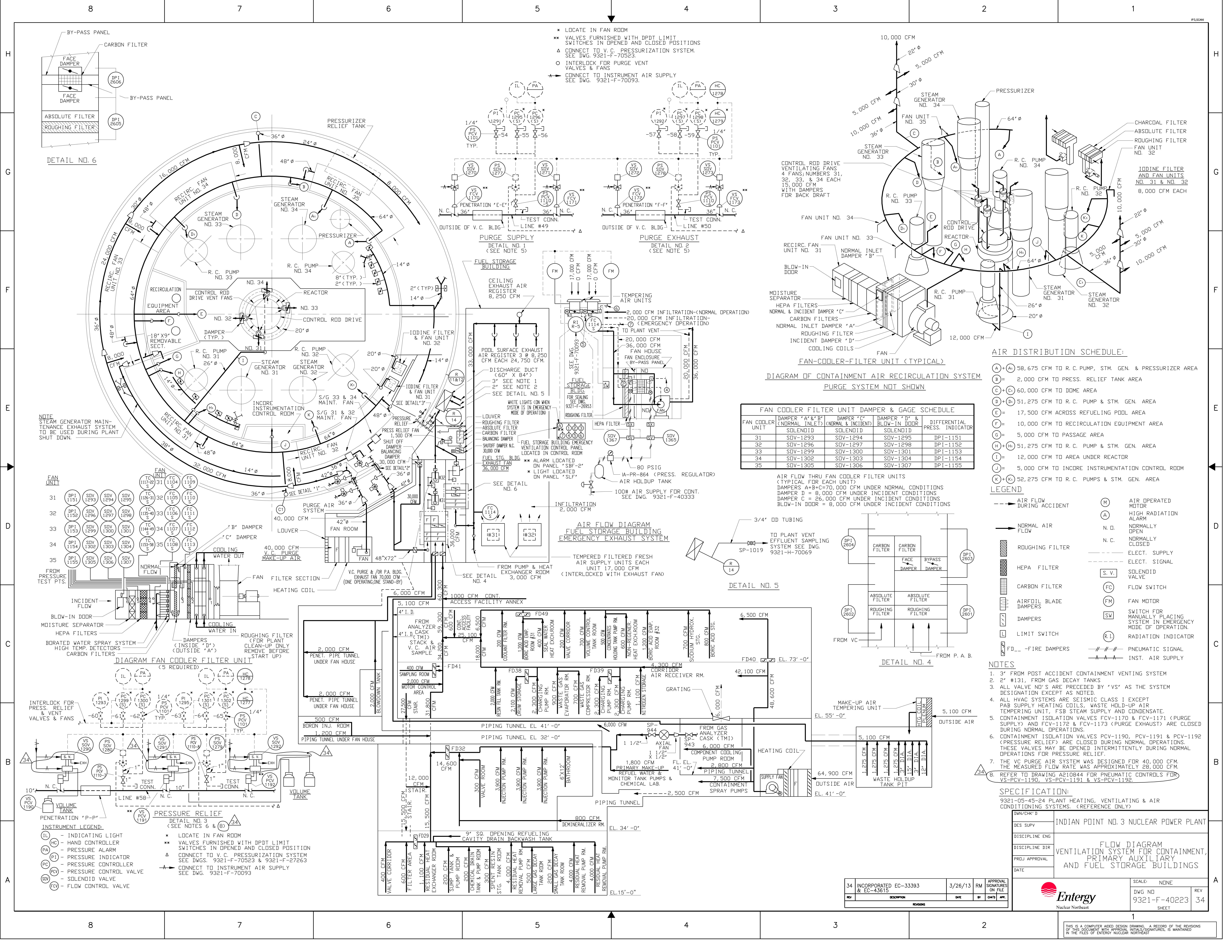
DWN	CHK'D	INDIAN POINT NO. 3 NUCLEAR POWER PLANT
DES. SUPV		
DISCIPLINE ENG		
DISCIPLINE MGR.		
PROJ. APPROVAL		
DATE		

SCALE	NONE	REV	59
DWG NO.	9321-F-27503	SHEET	59

Entergy Nuclear Northeast

59	INCORPORATED EC-79305	9/14/18	OG	APPROVAL SIGNATURES ON FILE
REV	DESCRIPTION	DATE	BY	CHK'D APP.





DETAIL NO. 6

PURGE SUPPLY
DETAIL NO. 1
(SEE NOTE 5)

PURGE EXHAUST
DETAIL NO. 2
(SEE NOTE 5)

FAN-COOLER-FILTER UNIT (TYPICAL)

DIAGRAM OF CONTAINMENT AIR RECIRCULATION SYSTEM
PURGE SYSTEM NOT SHOWN

FAN COOLER FILTER UNIT DAMPER & GAGE SCHEDULE					
FAN COOLER UNIT	DAMPER 'A' & 'B' (NORMAL INLET) SOLENOID	DAMPER 'C' (NORMAL & INCIDENT) SOLENOID	DAMPER 'D' & BLOW-IN DOOR SOLENOID	DIFFERENTIAL PRESS. INDICATOR	
31	SDV-1293	SDV-1294	SDV-1295	DPI-1151	
32	SDV-1296	SDV-1297	SDV-1298	DPI-1152	
33	SDV-1299	SDV-1300	SDV-1301	DPI-1153	
34	SDV-1302	SDV-1303	SDV-1304	DPI-1154	
35	SDV-1305	SDV-1306	SDV-1307	DPI-1155	

AIR FLOW THRU FAN COOLER FILTER UNITS
(TYPICAL FOR EACH UNIT)
DAMPERS A+B+C=70,000 CFM UNDER NORMAL CONDITIONS
DAMPER D = 8,000 CFM UNDER INCIDENT CONDITIONS
DAMPER C = 26,000 CFM UNDER INCIDENT CONDITIONS
BLOW-IN DOOR = 8,000 CFM UNDER INCIDENT CONDITIONS

DETAIL NO. 5

DETAIL NO. 4

AIR DISTRIBUTION SCHEDULE:

- (A) + (A) 58,675 CFM TO R.C. PUMP, STM. GEN. & PRESSURIZER AREA
- (B) = 2,000 CFM TO PRESS. RELIEF TANK AREA
- (C) + (C) 60,000 CFM TO DOME AREA
- (D) + (D) 51,275 CFM TO R.C. PUMP & STM. GEN. AREA
- (E) = 17,500 CFM ACROSS REFUELING POOL AREA
- (F) = 10,000 CFM TO RECIRCULATION EQUIPMENT AREA
- (G) = 5,000 CFM TO PASSAGE AREA
- (H) + (H) 51,275 CFM TO R.C. PUMP & STM. GEN. AREA
- (I) = 12,000 CFM TO AREA UNDER REACTOR
- (J) = 5,000 CFM TO INCORE INSTRUMENTATION CONTROL ROOM
- (K) + (K) 52,275 CFM TO R.C. PUMPS & STM. GEN. AREA

LEGEND

- AIR FLOW DURING ACCIDENT
- NORMAL AIR FLOW
- ROUGHING FILTER
- HEPA FILTER
- CARBON FILTER
- AIRFOIL BLADE DAMPERS
- LIMIT SWITCH
- FD... - FIRE DAMPERS
- (M) AIR OPERATED MOTOR
- (A) HIGH RADIATION ALARM
- N.D. NORMALLY OPEN
- N.C. NORMALLY CLOSED
- ELEC. SUPPLY
- ELEC. SIGNAL
- (S.V.) SOLENOID VALVE
- (FC) FLOW SWITCH
- (FM) FAN MOTOR
- (SW) SWITCH FOR MANUALLY PLACING SYSTEM IN EMERGENCY MODE OF OPERATION
- (R.I.) RADIATION INDICATOR
- PNEUMATIC SIGNAL
- INST. AIR SUPPLY

NOTES

- 3" FROM POST ACCIDENT CONTAINMENT VENTING SYSTEM
- 2" #131, FROM GAS DECAY TANKS
- ALL VALVE NO.'S ARE PRECEDED BY 'VS' AS THE SYSTEM DESIGNATION EXCEPT AS NOTED
- ALL HVAC SYSTEMS ARE SEISMIC CLASS 1 EXCEPT PAB SUPPLY HEATING COILS, WASTE HOLD-UP AIR TEMPERING UNIT, FSB STEAM SUPPLY AND CONDENSATE
- CONTAINMENT ISOLATION VALVES PCV-1170 & FCV-1171 (PURGE SUPPLY) AND FCV-1172 & FCV-1173 (PURGE EXHAUST) ARE CLOSED DURING NORMAL OPERATIONS
- CONTAINMENT ISOLATION VALVES PCV-1170, PCV-1191 & PCV-1192 (PRESSURE RELIEF) ARE CLOSED DURING NORMAL OPERATIONS. THESE VALVES MAY BE OPENED INTERMITTENTLY DURING NORMAL OPERATIONS FOR PRESSURE RELIEF
- THE VC PURGE AIR SYSTEM WAS DESIGNED FOR 40,000 CFM. THE MEASURED FLOW RATE WAS APPROXIMATELY 28,000 CFM
- REFER TO DRAWING A210844 FOR PNEUMATIC CONTROLS FOR VS-PCV-1190, VS-PCV-1191 & VS-PCV-1192

SPECIFICATION:

9321-05-45-24 PLANT HEATING, VENTILATING & AIR CONDITIONING SYSTEMS. (REFERENCE ONLY)

INDIAN POINT NO. 3 NUCLEAR POWER PLANT	
DISCIPLINE ENG	VENTILATION SYSTEM FOR CONTAINMENT, PRIMARY AUXILIARY AND FUEL STORAGE BUILDINGS
DISCIPLINE DIR	
PROJ. APPROVAL	
DATE	
34 INCORPORATED EC-33393 & EC-43615	3/26/13 RM
REV	DESCRIPTION
SCALE: NONE	DWG NO. 9321-F-40223
REV	SHEET 34

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