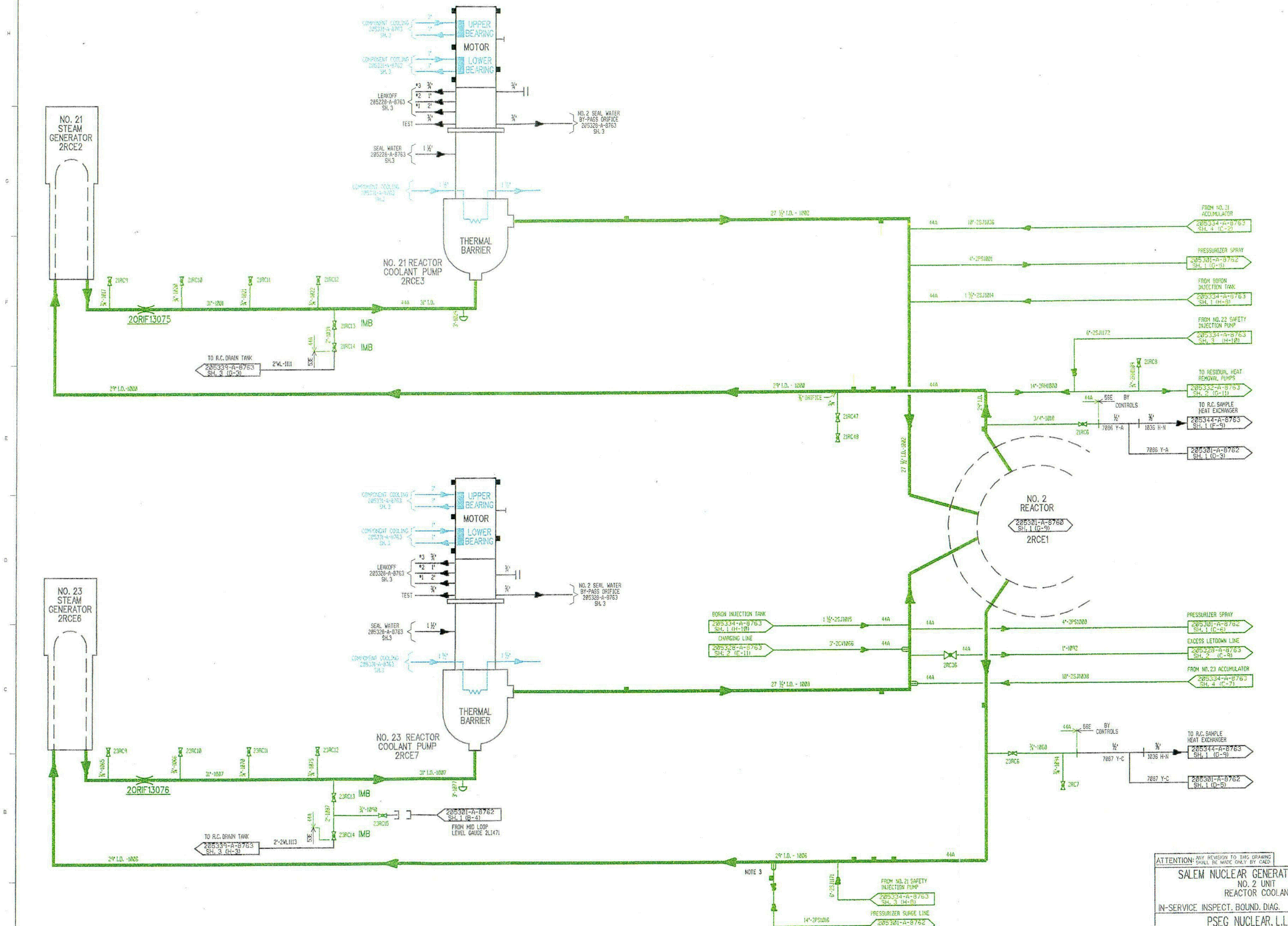


NOTE 'A' - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 80038023.

NO	DATE	DESCRIPTION	BY	SPON	APP'D
0		SEE NOTE 'A' - (A-1)	SDB		

REVISION

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

ISI CLASS 1	Nuclear Class 1, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
REACTOR COOLANT
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

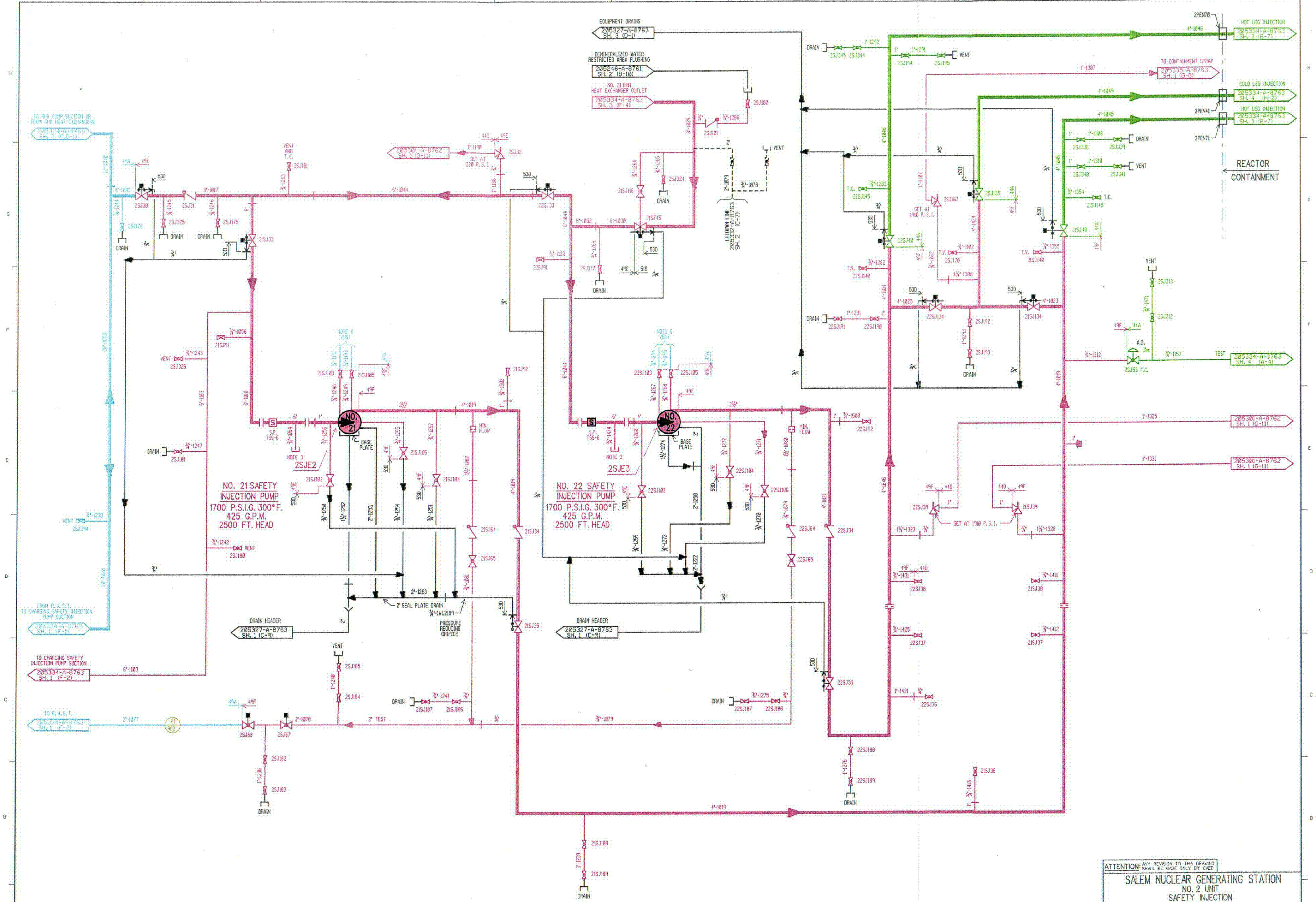
IN-SERVICE INSPECTION SPONSOR ____ APPROVED ____
DATE ____

REFERENCED P & ID: 205301-A-8762, SH. 2 - REV. 30

ISI301 -0

SH. 2

C25



NOTE 'A' - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 80038023.

NO.	DATE	DESCRIPTION	BY	SPON	APPD
0		SEE NOTE 'A' - (A-1)	SDB		

REVISION

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

ISI CLASS 1	Nuclear Class 1, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
ISI CLASS 3	Nuclear Class 3, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SAFETY INJECTION
IN-SERVICE INSPECT. BOUND. DIAG.
THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION SPONSOR ____ APPROVED ____
DATE ____

REFERENCED P & ID: 205334-A-8763, SH. 2 - REV. 51

ISI334 -0

SH. 2

C26

NO. 21
RESIDUAL
HEAT-EXCHANGER
2RHE3
MXATP- 900 P.S.I.G.
MNATT- 100°F

NO. 22
RESIDUAL
HEAT-EXCHANGER
2RHE4
MXATP- 900 P.S.I.G.
MNATT- 100°F

RESIDUAL HEAT
REMOVAL PUMPS
DRAWING 205332-A-8763

REACTOR CONTAINMENT

CONTAINMENT
SUMP
300 GAL.
APPROX.

NO. 21
CONTAINMENT SUMP
DRAIN VALVE ROOM

NO. 22
CONTAINMENT SUMP
DRAIN VALVE ROOM

NOTE "W" - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 80038023.

NO.	DATE	DESCRIPTION	BY	APPROVED
0		SEE NOTE "W" - (0-1) SDB		

REVISION

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SAFETY INJECTION
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.

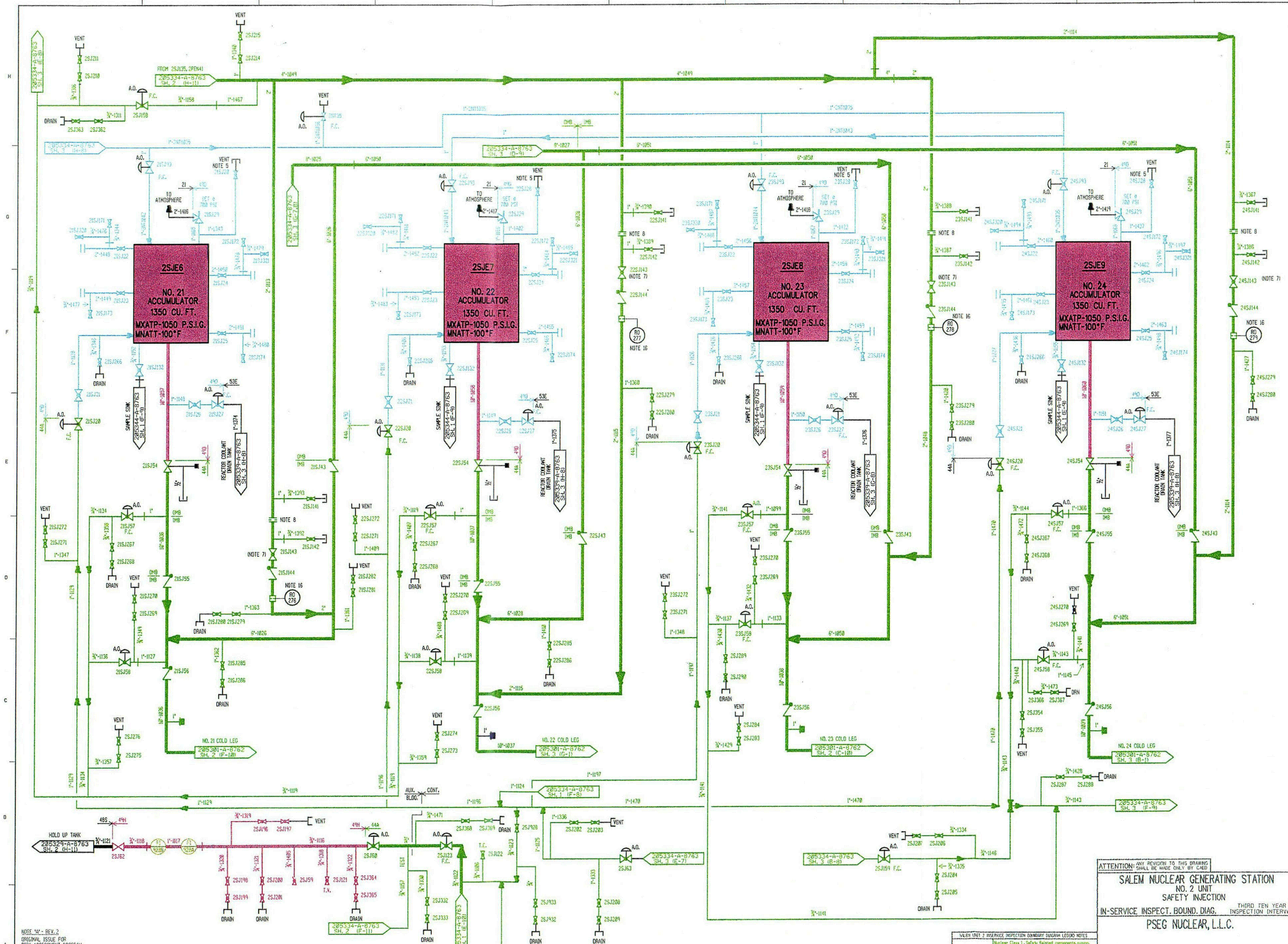
IN-SERVICE INSPECTION SPONSOR _____ APPROVED _____
DATE _____

REFERENCED P & ID: 205334-A-8763, SH. 3 - REV. 56

ISI334 -0

SH. 3

C27



NOTE "A" - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 80038023.

NO	DATE	DESCRIPTION	BY	SPON	APPD
0		SEE NOTE "A" - (A-1)	SDB		

REVISION

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

ISI CLASS 1	Nuclear Class 1, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
ISI CLASS 3	Nuclear Class 3, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SAFETY INJECTION
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

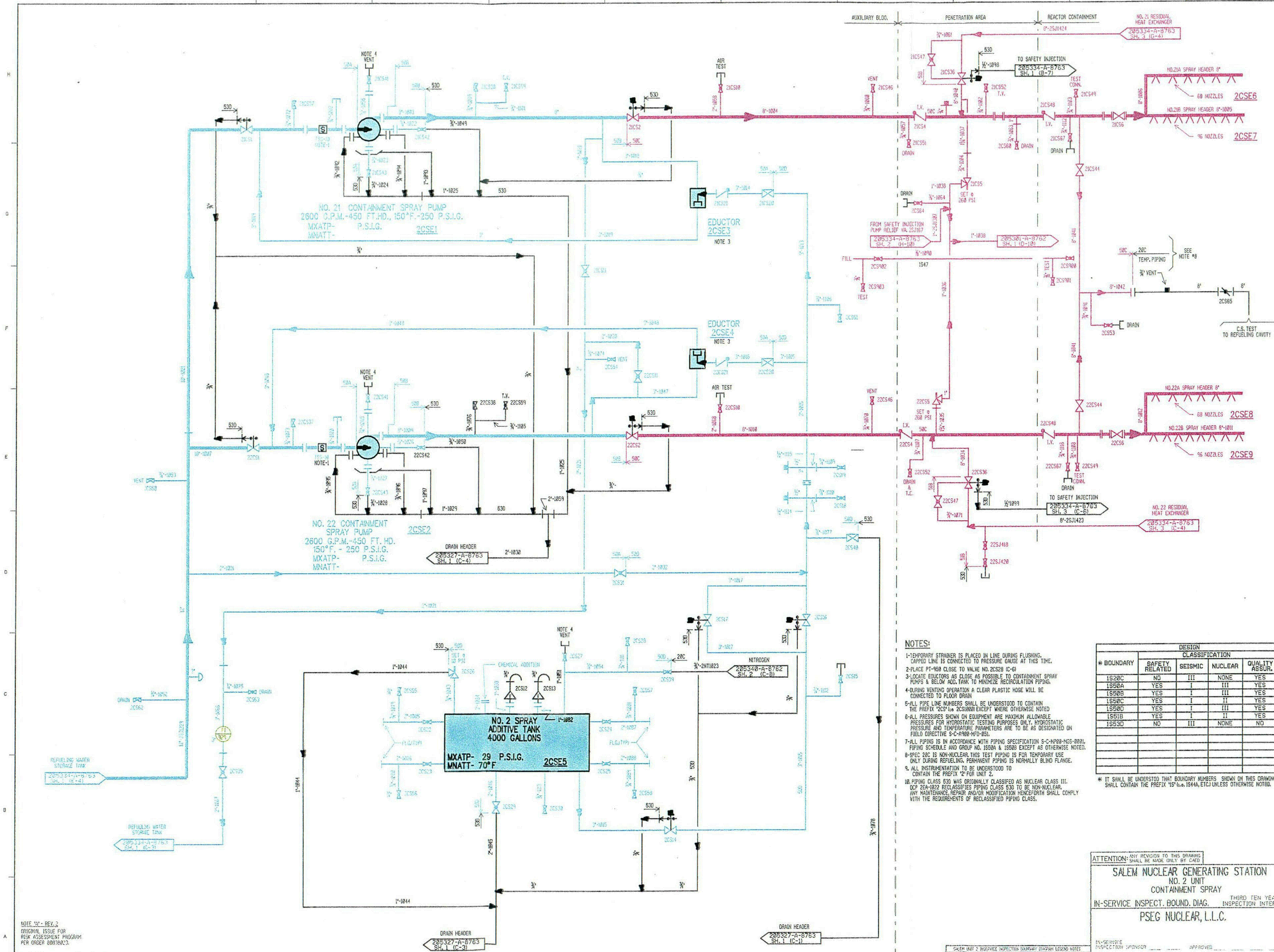
IN-SERVICE INSPECTION SPONSOR ____ APPROVED ____
DATE ____

REFERENCED P & ID: 205334-A-8763, SH. 4 - REV. 44

ISI334 -0

SH. 4

C28



NOTES:

1-TEMPORARY STRAINER IS PLACED IN LINE DURING FLUSHING. CAPPED LINE IS CONNECTED TO PRESSURE GAUGE AT THIS TIME.

2-PLACE PT-950 CLOSE TO VALVE NO. 2CS28 (C-6)

3-LOCATE EDUCTORS AS CLOSE AS POSSIBLE TO CONTAINMENT SPRAY PUMPS & BELOW ADD. TANK TO MINIMIZE RECIRCULATION PIPING.

4-DURING VENTING OPERATION A CLEAR PLASTIC HOSE WILL BE CONNECTED TO FLOOR DRAIN

5-ALL PIPE LINE NUMBERS SHALL BE UNDERSTOOD TO CONTAIN THE PREFIX '2CS' (i.e. 2CS1000) EXCEPT WHERE OTHERWISE NOTED

6-ALL PRESSURES SHOWN ON EQUIPMENT ARE MAXIMUM ALLOWABLE PRESSURES FOR HYDROSTATIC TESTING PURPOSES ONLY. HYDROSTATIC PRESSURE AND TEMPERATURE PARAMETERS ARE TO BE AS DESIGNATED ON FIELD DIRECTIVE S-C-A900-MFD-051.

7-ALL PIPING IS IN ACCORDANCE WITH PIPING SPECIFICATION S-C-MP00-MGS-0001, PIPING SCHEDULE AND GROUP NO. 1S50A & 1S50B EXCEPT AS OTHERWISE NOTED.

8-SPEC 20C IS NON-NUCLEAR. THIS TEST PIPING IS FOR TEMPORARY USE ONLY DURING REFUELING. PERMANENT PIPING IS NORMALLY BLIND FLANGE.

9. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX '2' FOR UNIT 2.

10. PIPING CLASS 530 WAS ORIGINALLY CLASSIFED AS NUCLEAR CLASS III. DCP 2EA-1022 RECLASSIFIES PIPING CLASS 530 TO BE NON-NUCLEAR. ANY MAINTENANCE, REPAIR AND/OR MODIFICATION HENCEFORTH SHALL COMPLY WITH THE REQUIREMENTS OF RECLASSIFIED PIPING CLASS.

* BOUNDARY	DESIGN CLASSIFICATION			
	SAFETY RELATED	SEISMIC	NUCLEAR	QUALITY ASSUR.
1S20C	NO	III	NONE	YES
1S50A	YES	I	III	YES
1S50B	YES	I	III	YES
1S50C	YES	I	II	YES
1S50D	YES	I	III	YES
1S51B	YES	I	II	YES
1S53D	NO	III	NONE	NO

* IT SHALL BE UNDERSTOOD THAT BOUNDARY NUMBERS SHOWN ON THIS DRAWING SHALL CONTAIN THE PREFIX '1S' (i.e. 1S44A, ETC.) UNLESS OTHERWISE NOTED.

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
ISI CLASS 3	Nuclear Class 3, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
CONTAINMENT SPRAY
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

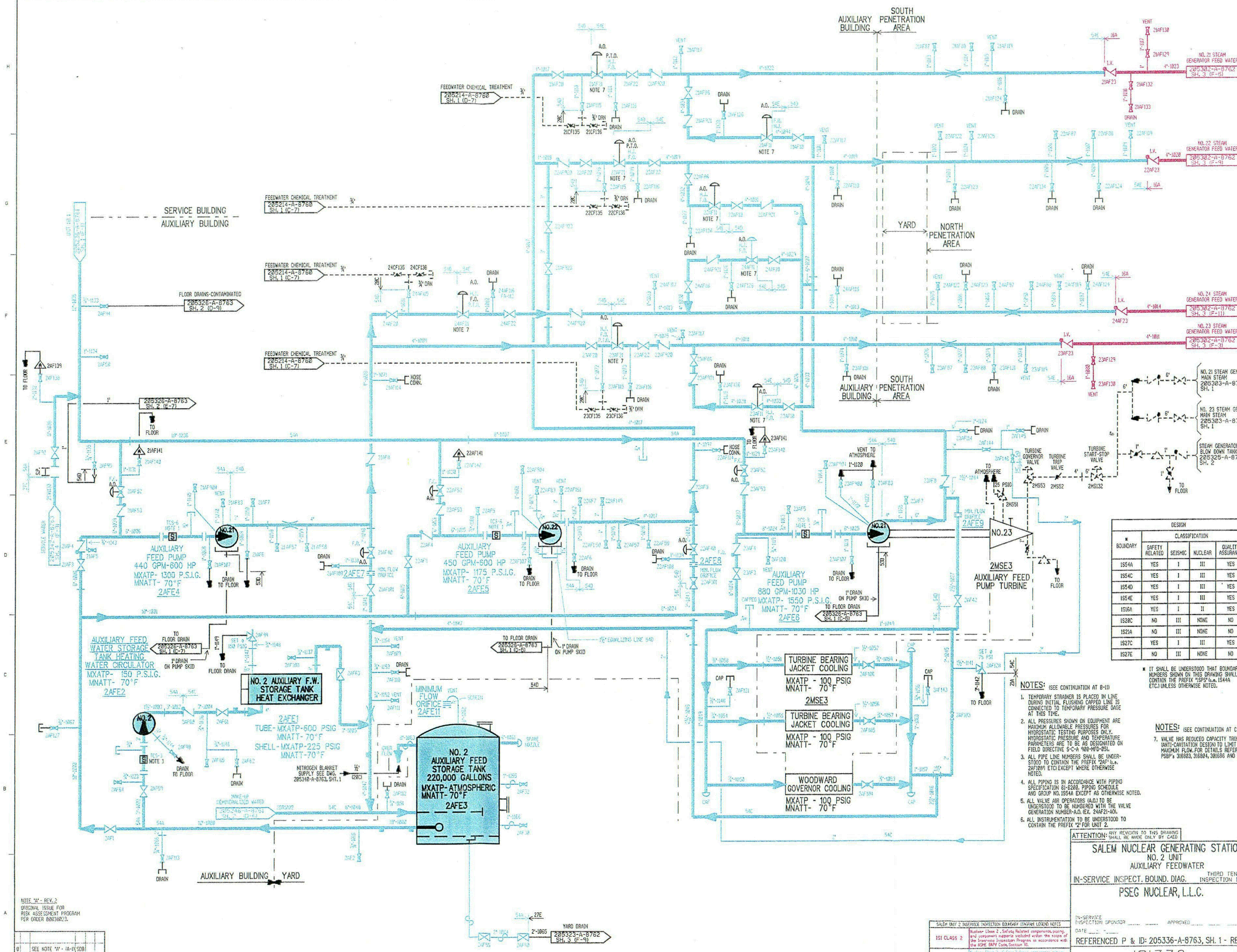
PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION SPONSOR ______ APPROVED ______
DATE ______

REFERENCED P & ID: 205335-A-8763, SH. 1 - REV. 39

IS1335 -0

C29



* BOUNDARY	DESIGN CLASSIFICATION			
	SAFETY RELATED	SEISMIC	NUCLEAR	QUALITY ASSURANCE
1S54A	YES	I	III	YES
1S54C	YES	I	III	YES
1S54D	YES	I	III	YES
1S54E	YES	I	III	YES
1S16A	YES	I	II	YES
1S20C	NO	III	NONE	NO
1S21A	NO	III	NONE	NO
1S27C	YES	I	III	YES
1S27E	NO	III	NONE	NO

* IT SHALL BE UNDERSTOOD THAT BOUNDARY NUMBERS SHOWN ON THIS DRAWING SHALL CONTAIN THE PREFIX 'ISPS' (i.e. IS44A ETC.) UNLESS OTHERWISE NOTED.

NOTES: (SEE CONTINUATION AT B-11)

1. TEMPORARY STRAINER IS PLACED IN LINE DURING INITIAL FLUSHING CAPPED LINE IS CONNECTED TO TEMPORARY PRESSURE GAGE AT THIS TIME.
2. ALL PRESSURES SHOWN ON EQUIPMENT ARE MAXIMUM ALLOWABLE PRESSURES FOR HYDROSTATIC TESTING PURPOSES ONLY. HYDROSTATIC PRESSURE AND TEMPERATURE PARAMETERS ARE TO BE AS DESIGNATED ON FIELD DIRECTIVE S-C-A 900-MFD-051.
3. ALL PIPE LINE NUMBERS SHALL BE UNDERSTOOD TO CONTAIN THE PREFIX '2AF' (i.e. 2AF1089 ETC) EXCEPT WHERE OTHERWISE NOTED.
4. ALL PIPING IS IN ACCORDANCE WITH PIPING SPECIFICATION 61-6200. PIPING SCHEDULE AND GROUP NO. 1S54A EXCEPT AS OTHERWISE NOTED.
5. ALL VALVE AIR OPERATORS (A.O.) TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.O. (EX. 24AF21-AO).
6. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX '2' FOR UNIT 2.

NOTES: (SEE CONTINUATION AT C-9)

7. VALVE HAS REDUCED CAPACITY TRIM (ANTI-CAVITATION DESIGN) TO LIMIT THE MAXIMUM FLOW. FOR DETAILS REFER TO PSBP's 316803, 316804, 301686 AND 309200.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES	
ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
ISI CLASS 3	Nuclear Class 3, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
AUXILIARY FEEDWATER
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

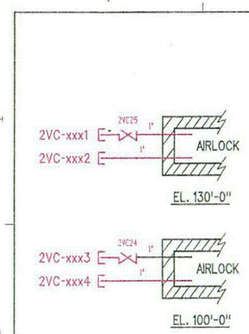
PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION SPONSOR ____ APPROVED ____
DATE ____

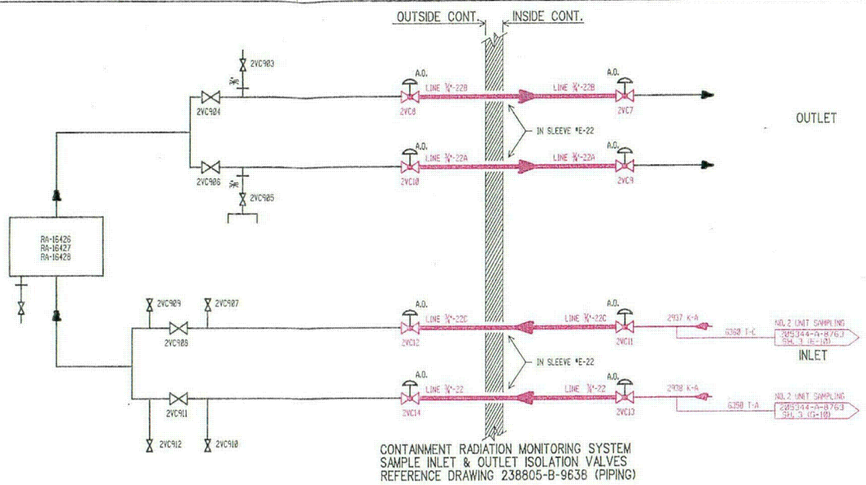
REFERENCED P & ID: 205336-A-8763, SH. 1 - REV. 48

ISI336 -0

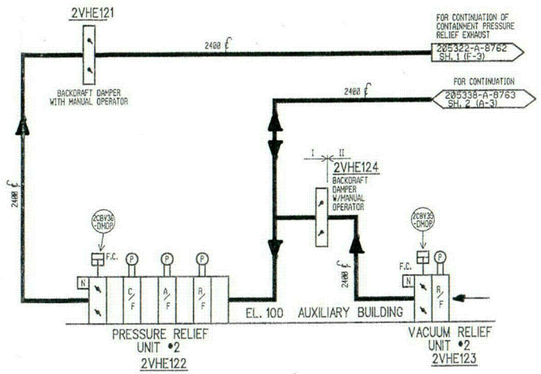
C30

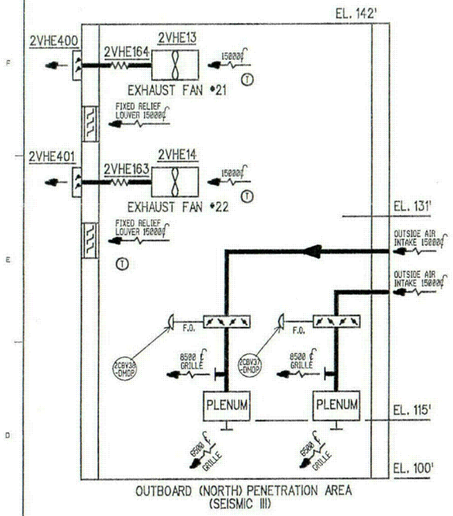


PERSONNEL AIRLOCK SAMPLING



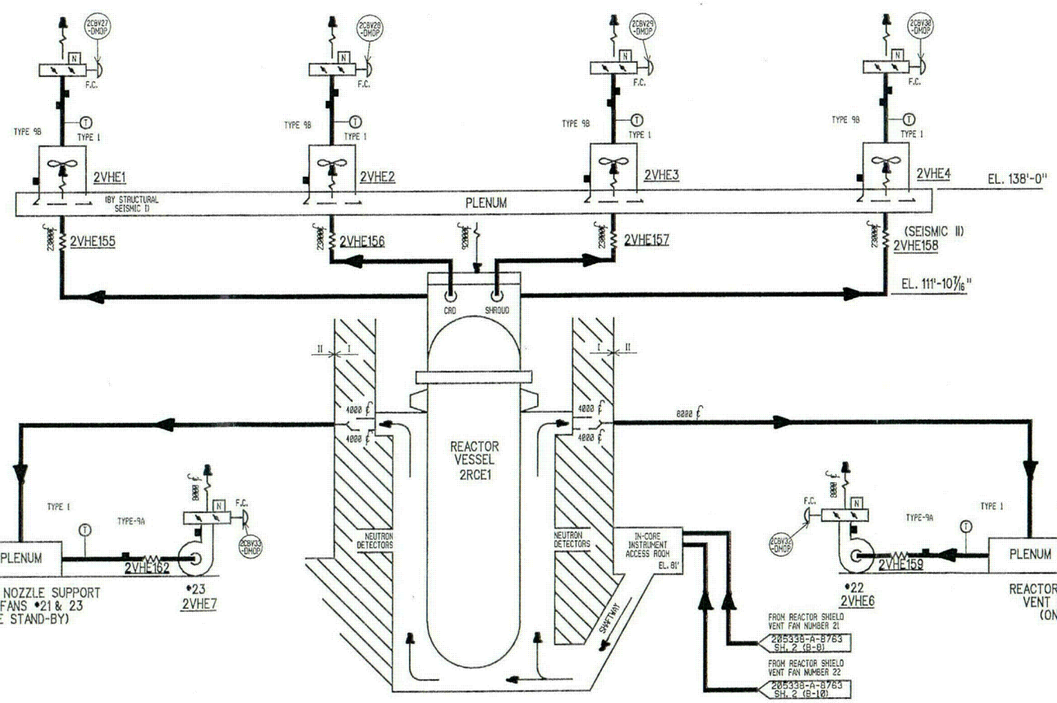
CONTAINMENT RADIATION MONITORING SYSTEM
SAMPLE INLET & OUTLET ISOLATION VALVES
REFERENCE DRAWING 238805-B-9638 (PIPING)





OUTBOARD (NORTH) PENETRATION AREA
(SEISMIC III)

CONTROL ROD DRIVE VENT FANS
*21, 22, 23 & 24 (ONE STAND-BY)



NOTES:

1. ALL DAMPERS ARE IDENTIFIED WITH A NUMBER (EX. 2CBV28) DAMPER OPERATORS (DMOP) ARE IDENTIFIED WITH THEIR DAMPER NUMBER-DMOP (EX. 2CBV28-DMOP). FAN & FILTER UNIT DAMPERS WILL BE INCLUDED WITH THE UNIT NUMBER (EX. 2VHE61) AND WILL ONLY HAVE A DAMPER OPERATOR NUMBER.
2. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX "2" FOR UNIT 2.

NOTE "A" - REV. 0
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80078023.

REVISION				
NO.	DATE	DESCRIPTION	BY	APVD.
0		SEE NOTE "A" - (A-1) SDB		

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
REACTOR CONTAINMENT - VENTILATION
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION SPONSOR _____ APPROVED _____
DATE _____

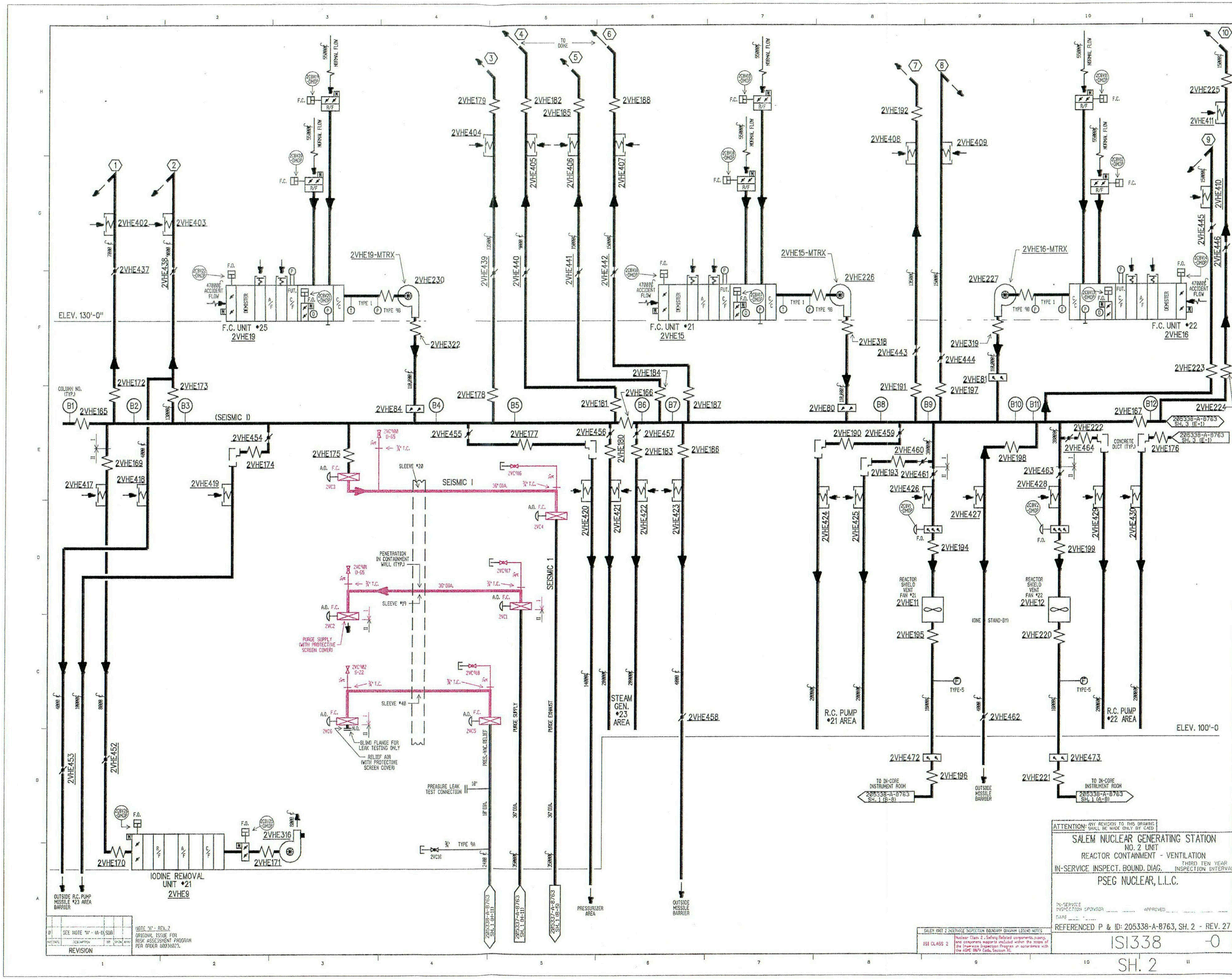
REFERENCED P & ID: 205338-A-8763, SH. 1 - REV. 29

ISI338 -0

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LICENSE NOTES

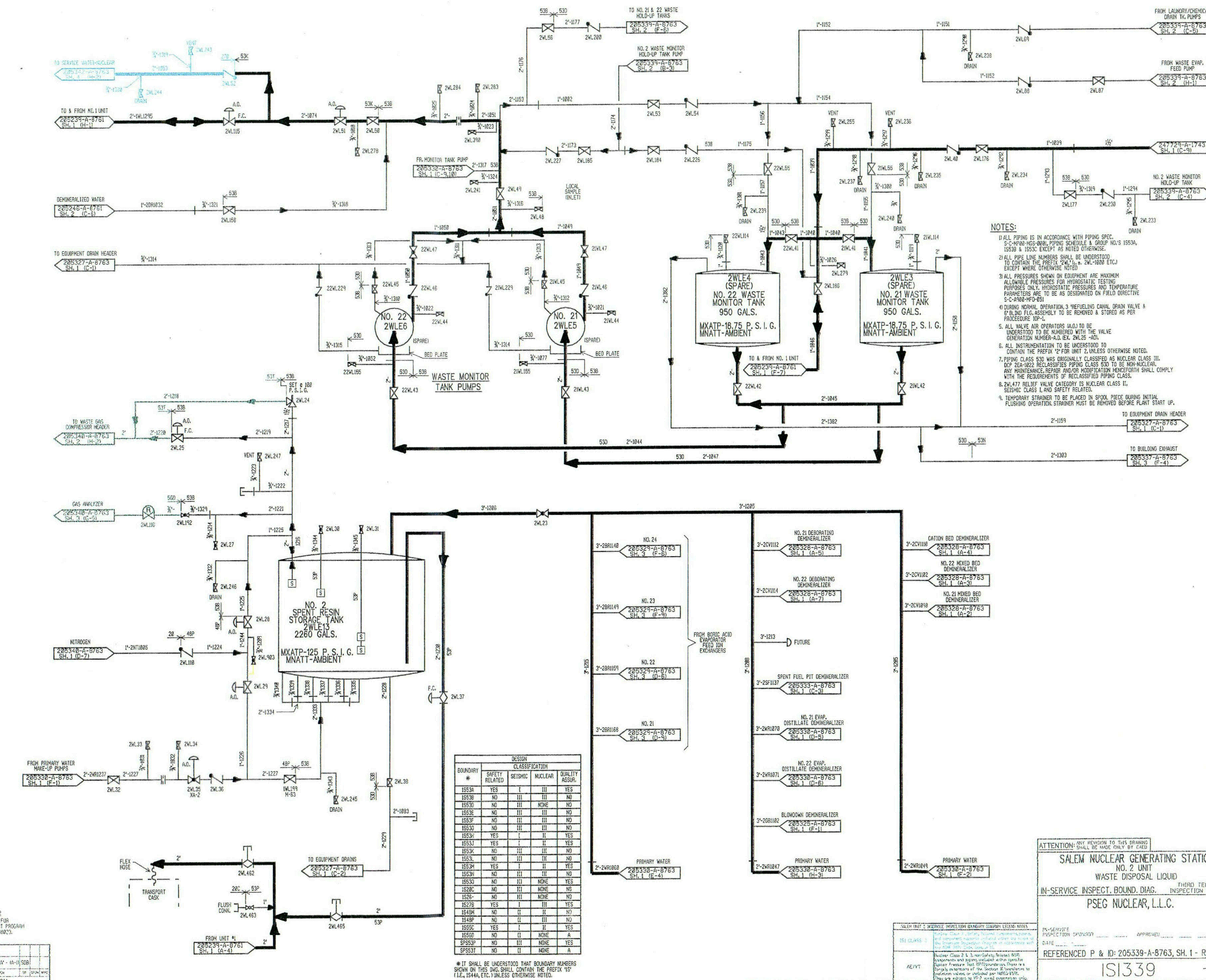
ISI CLASS 2 — Nuclear Class 2, Safety Related components, piping, and components supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

C31



2VHE402
2VHE403
2VHE437
2VHE438
2VHE19-MTRX
2VHE230
2VHE322
F.C. UNIT #25
2VHE19
DEMISTER
ELEV. 130'-0"
COLUMN NO. (TYP.)
2VHE165
2VHE172
2VHE173
(SEISMIC I)
2VHE84
2VHE179
2VHE182
2VHE185
2VHE188
2VHE404
2VHE405
2VHE406
2VHE407
2VHE439
2VHE440
2VHE441
2VHE442
2VHE178
2VHE184
2VHE166
2VHE181
2VHE187
TO DOME
2VHE15-MTRX
2VHE226
F.C. UNIT #21
2VHE15
2VHE318
2VHE80
2VHE192
2VHE408
2VHE409
2VHE443
2VHE444
2VHE191
2VHE197
2VHE16-MTRX
2VHE227
2VHE319
2VHE81
F.C. UNIT #22
2VHE16
2VHE225
2VHE411
2VHE410
2VHE445
2VHE446
2VHE223
2VHE224
2VHE167
205338-A-8763 SH. 3 (E-1)
2VHE454
2VHE174
2VHE175
2VHE169
2VHE417
2VHE418
2VHE419
2VHE455
2VHE177
2VHE456
2VHE180
2VHE457
2VHE183
2VHE186
SEISMIC I
SLEEVE #20
SLEEVE #19
SLEEVE #48
PENETRATION IN CONTAINMENT WALL (TYP.)
PURGE SUPPLY (WITH PROTECTIVE SCREEN COVER)
BLIND FLANGE FOR LEAK TESTING ONLY
RELIEF AIR (WITH PROTECTIVE SCREEN COVER)
PRESSURE LEAK TEST CONNECTION
PRES.-VAC. RELIEF
PURGE SUPPLY
PURGE EXHAUST
2VHE420
2VHE421
2VHE422
2VHE423
STEAM GEN. #23 AREA
2VHE458
PRESSURIZER AREA
OUTSIDE MISSILE BARRIER
2VHE190
2VHE459
2VHE460
2VHE193
2VHE461
2VHE426
2VHE424
2VHE425
2VHE194
REACTOR SHIELD VENT FAN #21
2VHE11
2VHE195
R.C. PUMP #21 AREA
2VHE472
2VHE196
TO IN-CORE INSTRUMENT ROOM
205338-A-8763 SH. 1 (B-8)
2VHE198
2VHE427
(ONE STAND-BY)
2VHE462
2VHE222
2VHE464
CONCRETE DUCT (TYP.)
2VHE176
2VHE463
2VHE428
2VHE429
2VHE430
2VHE199
REACTOR SHIELD VENT FAN #22
2VHE12
2VHE220
R.C. PUMP #22 AREA
ELEV. 100'-0
2VHE473
2VHE221
205338-A-8763 SH. 1 (A-8)
2VHE453
2VHE452
2VHE170
2VHE316
2VHE171
IODINE REMOVAL UNIT #21
2VHE9
OUTSIDE MISSILE BARRIER
R.C. PUMP #23 AREA
205338-A-8763 SH. 1 (H-11)
205337-A-8763 SH. 1 (H-11)
205337-A-8763 SH. 1 (B-9)
SEE NOTE "A" - (A-D) SOA
REVISION
NOTE "A" - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80038023.
SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES
ISI CLASS 2
Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED
SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
REACTOR CONTAINMENT - VENTILATION
IN-SERVICE INSPECT. BOUND. DIAG.
THIRD TEN YEAR INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.
IN-SERVICE INSPECTION SPONSOR
APPROVED
DATE
REFERENCED P & ID: 205338-A-8763, SH. 2 - REV. 27
ISI338 -0
SH. 2

C32



NOTES:

1) ALL PIPING IS IN ACCORDANCE WITH PIPING SPEC. S-C-MP00-MGS-0001, PIPING SCHEDULE & GROUP NO.'S 1S53A, 1S53B & 1S53C EXCEPT AS NOTED OTHERWISE.
2) ALL PIPE LINE NUMBERS SHALL BE UNDERSTOOD TO CONTAIN THE PREFIX '2WL' (i.e. 2WL-1000 ETC.) EXCEPT WHERE OTHERWISE NOTED
3) ALL PRESSURES SHOWN ON EQUIPMENT ARE MAXIMUM ALLOWABLE PRESSURES FOR HYDROSTATIC TESTING PURPOSES ONLY. HYDROSTATIC PRESSURES AND TEMPERATURE PARAMETERS ARE TO BE AS DESIGNATED ON FIELD DIRECTIVE S-C-A900-MFD-051
4) DURING NORMAL OPERATION, 3' REFUELING CANAL DRAIN VALVE & 6' BLIND FLG. ASSEMBLY TO BE REMOVED & STORED AS PER PROCEDURE IOP-1.
5. ALL VALVE AIR OPERATORS (A.O.) TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.O. (EX. 2WL25 -AO).
6. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX '2' FOR UNIT 2, UNLESS OTHERWISE NOTED.
7. PIPING CLASS 53D WAS ORIGINALLY CLASSIFED AS NUCLEAR CLASS III. DCP 2EA-1022 RECLASSIFIES PIPING CLASS 53D TO BE NON-NUCLEAR. ANY MAINTENANCE, REPAIR AND/OR MODIFICATION HENCEFORTH SHALL COMPLY WITH THE REQUIREMENTS OF RECLASSIFIED PIPING CLASS.
8. 2WL477 RELIEF VALVE CATEGORY IS NUCLEAR CLASS II, SEISMIC CLASS I, AND SAFETY RELATED.
9. TEMPORARY STRAINER TO BE PLACED IN SPOOL PIECE DURING INITIAL FLUSHING OPERATION. STRAINER MUST BE REMOVED BEFORE PLANT START UP.

BOUNDARY *	DESIGN CLASSIFICATION			
	SAFETY RELATED	SEISMIC	NUCLEAR	QUALITY ASSUR.
1S53A	YES	I	III	YES
1S53B	NO	III	III	NO
1S53D	NO	III	NONE	NO
1S53E	NO	III	III	NO
1S53F	NO	III	III	NO
1S53G	NO	III	III	NO
1S53H	YES	I	II	YES
1S53J	YES	I	II	YES
1S53K	NO	III	III	NO
1S53L	NO	III	III	NO
1S53M	YES	I	II	YES
1S53N	NO	III	III	NO
1S53Q	NO	III	NONE	YES
1S20C	NO	III	NONE	NO
1S26-	NO	III	NONE	NO
1S27B	YES	I	III	YES
1S48M	NO	II	II	NO
1S48P	NO	II	III	NO
1S55C	YES	I	II	YES
1S56D	NO	II	NONE	A
SPS53P	NO	III	NONE	YES
SPS53T	NO	II	NONE	A

* IT SHALL BE UNDERSTOOD THAT BOUNDARY NUMBERS SHOWN ON THIS DWG. SHALL CONTAIN THE PREFIX '1S' (I.E., 1S44A, ETC.) UNLESS OTHERWISE NOTED.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
WASTE DISPOSAL LIQUID
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

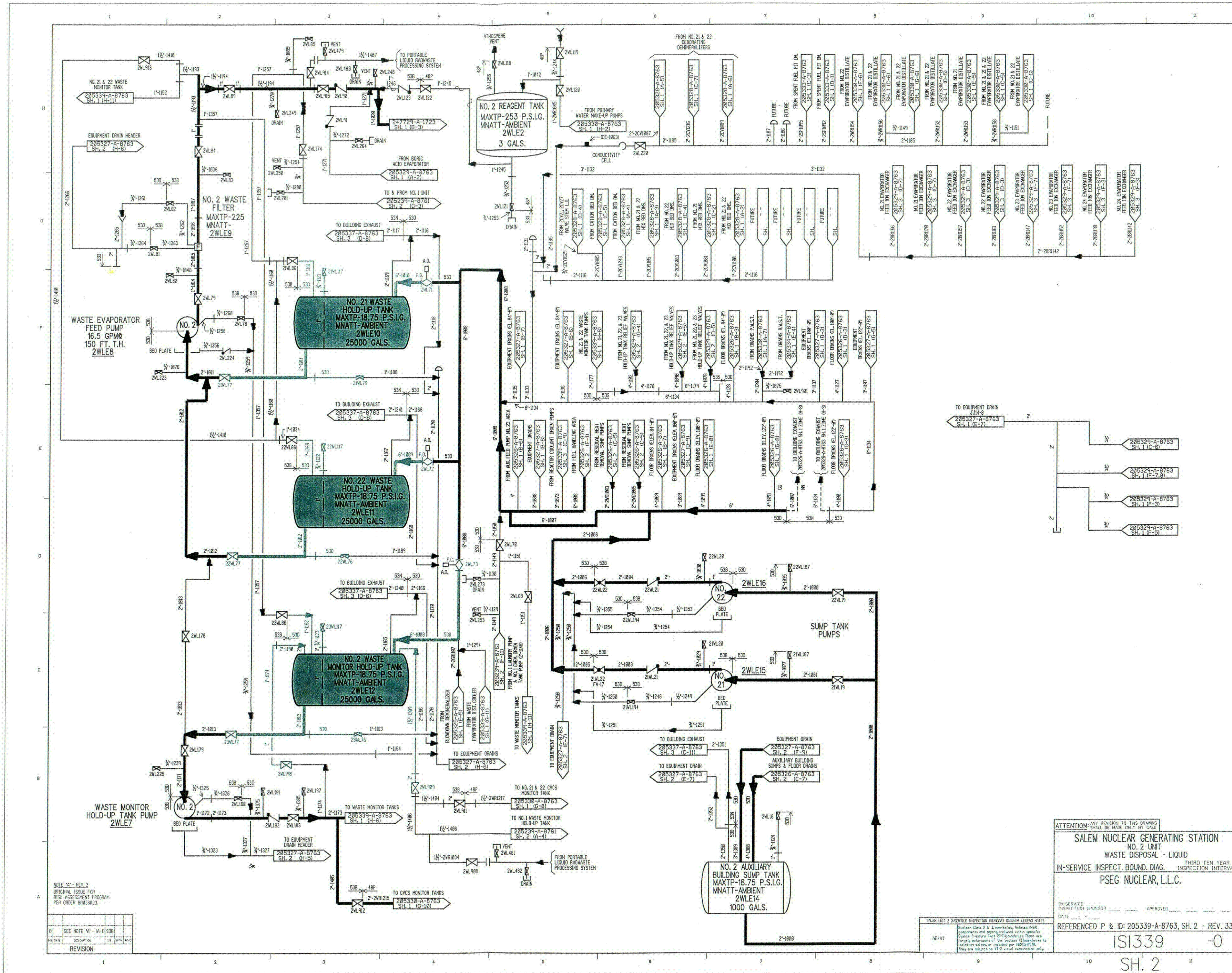
IN-SERVICE INSPECTION SPONSOR ______ APPROVED ______
DATE ______

REFERENCED P & ID: 205339-A-8763, SH. 1 - REV. 36

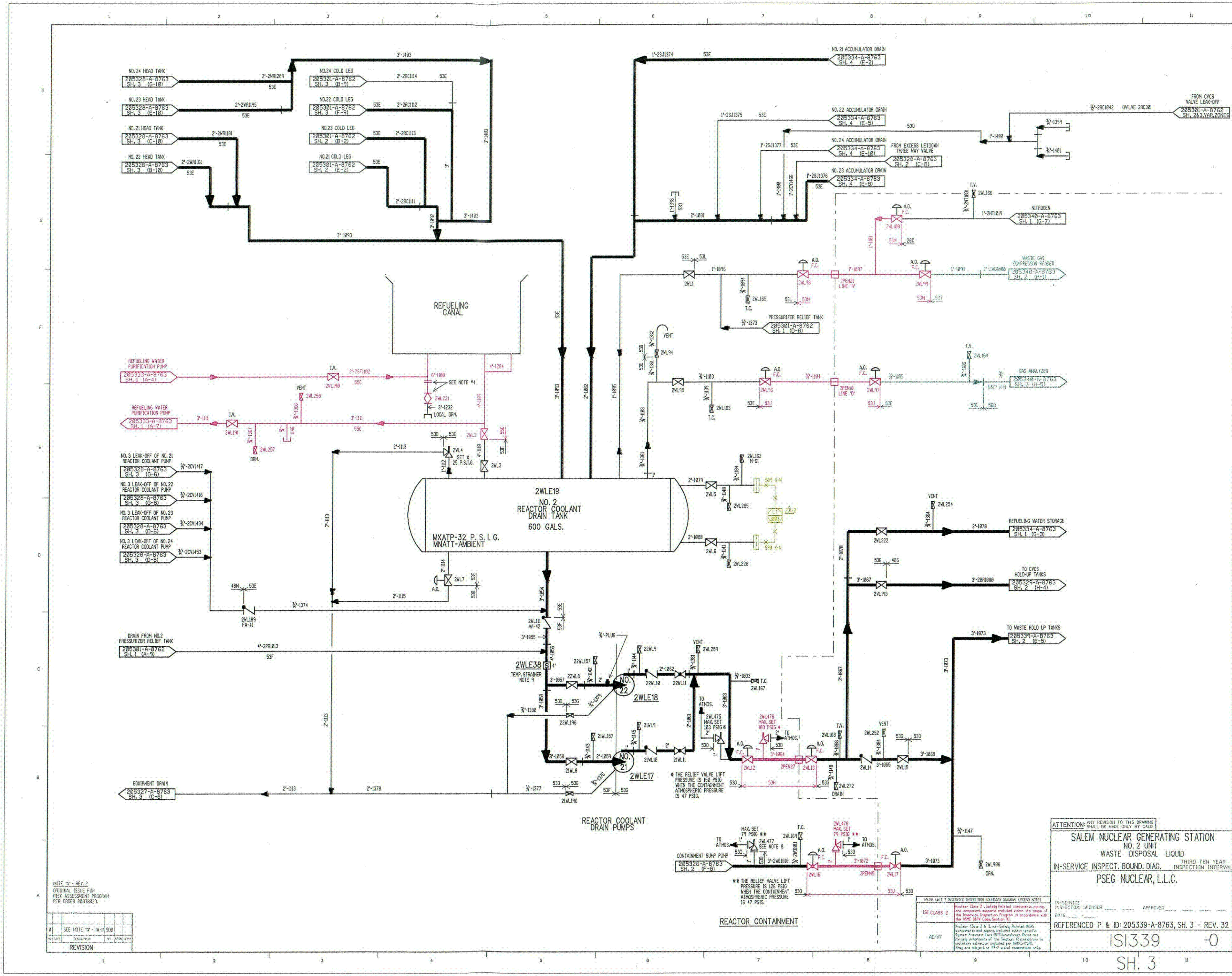
ISI339 -0

SH. 1 OF 3

C33

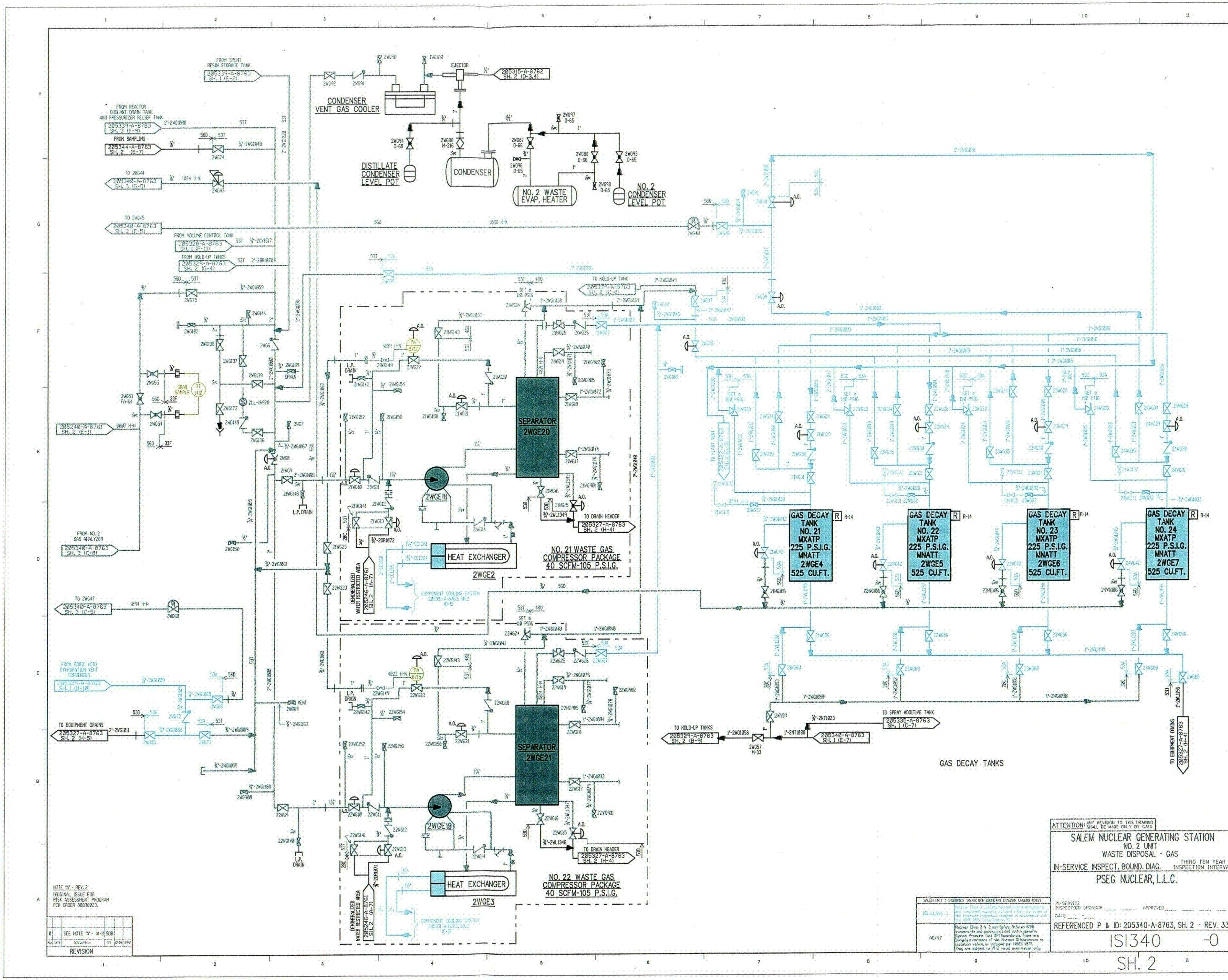

NO. 2 REAGENT TANK
MAXTP-253 P.S.I.G.
MNATT-AMBIENT
2WLE2
3 GALS.
NO. 2 WASTE FILTER
MAXTP-225
MNATT-
2WLE9
WASTE EVAPORATOR FEED PUMP
16.5 GPM@
150 FT. T.H.
2WLE8
NO. 21 WASTE HOLD-UP TANK
MAXTP-18.75 P.S.I.G.
MNATT-AMBIENT
2WLE10
25000 GALS.
NO. 22 WASTE HOLD-UP TANK
MAXTP-18.75 P.S.I.G.
MNATT-AMBIENT
2WLE11
25000 GALS.
NO. 2 WASTE MONITOR HOLD-UP TANK
MAXTP-18.75 P.S.I.G.
MNATT-AMBIENT
2WLE12
25000 GALS.
WASTE MONITOR HOLD-UP TANK PUMP
2WLE7
SUMP TANK PUMPS
2WLE16
2WLE15
NO. 2 AUXILIARY BUILDING SUMP TANK
MAXTP-18.75 P.S.I.G.
MNATT-AMBIENT
2WLE14
1000 GALS.
ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED
SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
WASTE DISPOSAL - LIQUID
IN-SERVICE INSPECT. BOUND. DIAG.
THIRD TEN YEAR INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.
IN-SERVICE INSPECTION SPONSOR
APPROVED
DATE
REFERENCED P & ID: 205339-A-8763, SH. 2 - REV. 33
ISI339 -0
SH. 2

C34



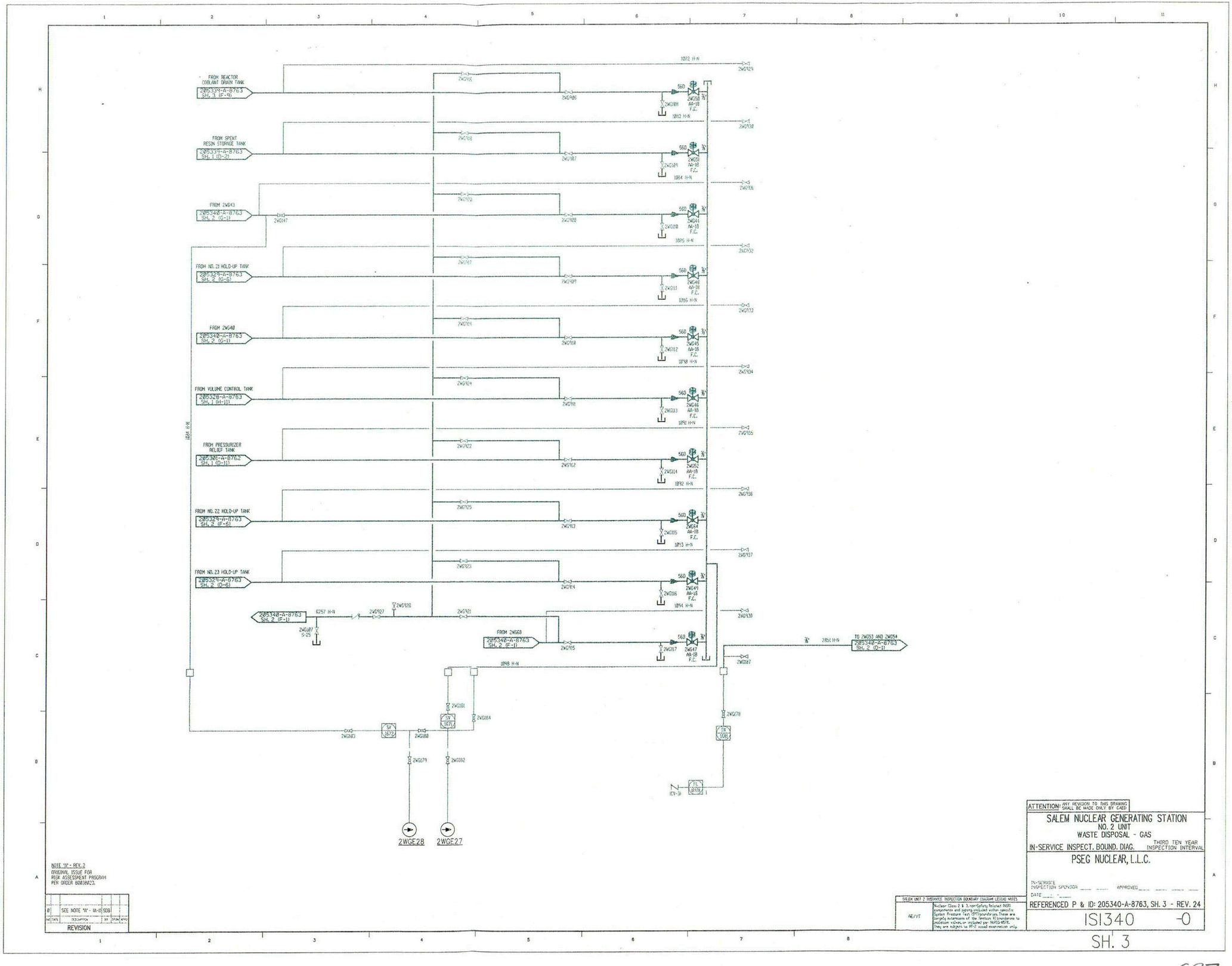
REFUELING CANAL
2WLE19
NO. 2
REACTOR COOLANT
DRAIN TANK
600 GALS.
MXATP-32 P. S. I. G.
MNATT-AMBIENT
NO. 24 HEAD TANK
NO. 23 HEAD TANK
NO. 21 HEAD TANK
NO. 22 HEAD TANK
NO.24 COLD LEG
NO.22 COLD LEG
NO.23 COLD LEG
NO.21 COLD LEG
NO. 21 ACCUMULATOR DRAIN
NO. 22 ACCUMULATOR DRAIN
NO. 24 ACCUMULATOR DRAIN
NO. 23 ACCUMULATOR DRAIN
FROM EXCESS LETDOWN
THREE WAY VALVE
FROM CVCS
VALVE LEAK-OFF
NITROGEN
WASTE GAS
COMPRESSOR HEADER
PRESSURIZER RELIEF TANK
GAS ANALYZER
REFUELING WATER
PURIFICATION PUMP
NO. 3 LEAK-OFF OF NO. 21
REACTOR COOLANT PUMP
NO. 3 LEAK-OFF OF NO. 22
REACTOR COOLANT PUMP
NO. 3 LEAK-OFF OF NO. 23
REACTOR COOLANT PUMP
NO. 3 LEAK-OFF OF NO. 24
REACTOR COOLANT PUMP
DRAIN FROM NO.2
PRESSURIZER RELIEF TANK
EQUIPMENT DRAIN
REFUELING WATER STORAGE
TO CVCS
HOLD-UP TANKS
TO WASTE HOLD UP TANKS
2WLE38
TEMP. STRAINER
NOTE 9
2WLE18
2WLE17
REACTOR COOLANT
DRAIN PUMPS
CONTAINMENT SUMP PUMP
REACTOR CONTAINMENT
* THE RELIEF VALVE LIFT
PRESSURE IS 150 PSIG
WHEN THE CONTAINMENT
ATMOSPHERIC PRESSURE
IS 47 PSIG.
** THE RELIEF VALVE LIFT
PRESSURE IS 126 PSIG
WHEN THE CONTAINMENT
ATMOSPHERIC PRESSURE
IS 47 PSIG.
NOTE "0" - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 80038823.
0 SEE NOTE "0" - (A-1)
REVISION
SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES
ISI CLASS 2
Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
AE/VT
ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED
SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
WASTE DISPOSAL LIQUID
IN-SERVICE INSPECT. BOUND. DIAG.
THIRD TEN YEAR
INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.
IN-SERVICE
INSPECTION SPONSOR
APPROVED
DATE
REFERENCED P & ID: 205339-A-8763, SH. 3 - REV. 32
ISI339 -0
SH. 3

C35



CONDENSER VENT GAS COOLER
EJECTOR
DISTILLATE CONDENSER LEVEL POT
CONDENSER
NO. 2 WASTE EVAP. HEATER
NO. 2 CONDENSER LEVEL POT
FROM SPENT RESIN STORAGE TANK
FROM REACTOR COOLANT DRAIN TANK AND PRESSURIZER RELIEF TANK
FROM SAMPLING
FROM VOLUME CONTROL TANK
FROM HOLD-UP TANKS
TO HOLD-UP TANK
FROM NO. 2 GAS ANALYZER
FROM BORIC ACID EVAPORATION VENT CONDENSER
TO EQUIPMENT DRAINS
SEPARATOR 2WGE20
SEPARATOR 2WGE21
2WGE18
2WGE19
HEAT EXCHANGER
2WGE2
2WGE3
TO DRAIN HEADER
NO. 21 WASTE GAS COMPRESSOR PACKAGE 40 SCFM-105 P.S.I.G.
NO. 22 WASTE GAS COMPRESSOR PACKAGE 40 SCFM-105 P.S.I.G.
COMPONENT COOLING SYSTEM
DEMINERALIZED WATER RESTRICTED AREA
L.P. DRAIN
GRAB SAMPLE
GAS DECAY TANK NO. 21 MXATP 225 P.S.I.G. MNATT 2WGE4 525 CU.FT.
GAS DECAY TANK NO. 22 MXATP 225 P.S.I.G. MNATT 2WGE5 525 CU.FT.
GAS DECAY TANK NO. 23 MXATP 225 P.S.I.G. MNATT 2WGE6 525 CU.FT.
GAS DECAY TANK NO. 24 MXATP 225 P.S.I.G. MNATT 2WGE7 525 CU.FT.
TO SPRAY ADDITIVE TANK
TO HOLD-UP TANKS
TO EQUIPMENT DRAINS
GAS DECAY TANKS
NOTE "U" - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80030023.
REVISION
SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES
ISI CLASS 3
AE/VT
ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED
SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
WASTE DISPOSAL - GAS
IN-SERVICE INSPECT. BOUND. DIAG.
THIRD TEN YEAR INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.
IN-SERVICE INSPECTION SPONSOR
APPROVED
DATE
REFERENCED P & ID: 205340-A-8763, SH. 2 - REV. 33
ISI340 -0
SH. 2

C36



NOTE "A" - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 80038823.

NO.	DATE	DESCRIPTION	BY	CHK'D	APP'D
0		SEE NOTE "A" - IA-11-508			

REVISION

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

AE/VT — Nuclear Class 2 & 3 non-Safety Related (NSR) components and piping included within specific System Pressure Test (SPT) boundaries. These are largely extensions of the Section XI boundaries to isolation valves, or included per NUREG-0578. They are subject to VT-2 visual examination only.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAD

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
WASTE DISPOSAL - GAS
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

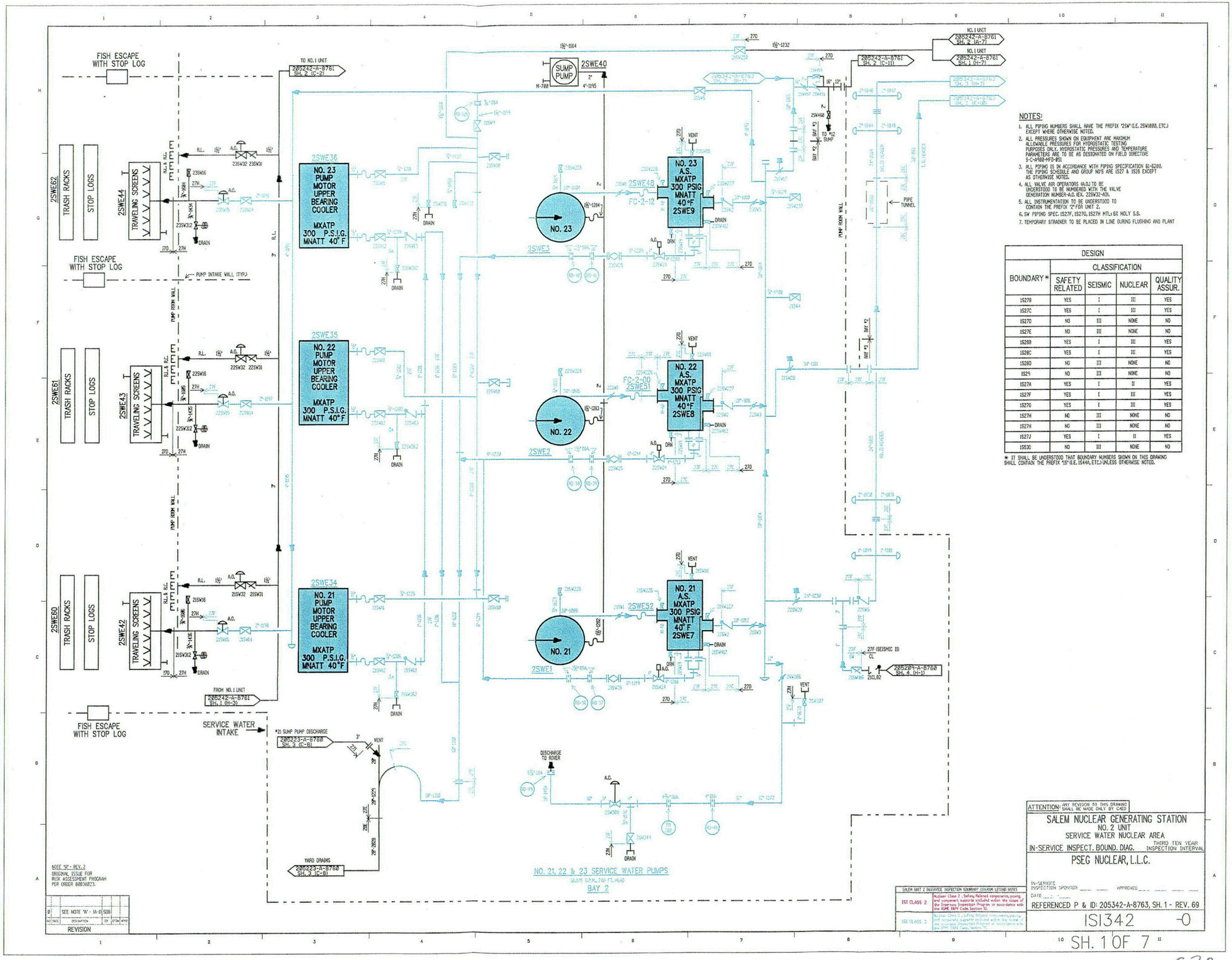
IN-SERVICE INSPECTION SPONSOR _____ APPROVED _____
DATE _____

REFERENCED P & ID: 205340-A-8763, SH. 3 - REV. 24

ISI340 -0

SH. 3

C37



NOTES:

1. ALL PIPING NUMBERS SHALL HAVE THE PREFIX "2SW" (I.E. 2SW1000, ETC.) EXCEPT WHERE OTHERWISE NOTED.
2. ALL PRESSURES SHOWN ON EQUIPMENT ARE MAXIMUM ALLOWABLE PRESSURES FOR HYDROSTATIC TESTING PURPOSES ONLY. HYDROSTATIC PRESSURES AND TEMPERATURE PARAMETERS ARE TO BE AS DESIGNATED ON FIELD DIRECTIVE S-C-HYDR-HPD-001
3. ALL PIPING IS IN ACCORDANCE WITH PIPING SPECIFICATION 81-5200. THE PIPING SCHEDULE AND GROUP NO'S ARE 1527 & 1528 EXCEPT AS OTHERWISE NOTED.
4. ALL VALVE AIR OPERATORS (A.O.) TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.O. I.E.: 22SW32-A.O.
5. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX "2" FOR UNIT 2.
6. SW PIPING SPEC. 1527F, 1527G, 1527H MTL: 6X MOLY S.S.
7. TEMPORARY STRAINER TO BE PLACED IN LINE DURING FLUSHING AND PLANT

BOUNDARY *	DESIGN CLASSIFICATION			
	SAFETY RELATED	SEISMIC	NUCLEAR	QUALITY ASSUR.
1527B	YES	I	III	YES
1527C	YES	I	III	YES
1527D	NO	III	NONE	NO
1527E	NO	III	NONE	NO
1528B	YES	I	III	YES
1528C	YES	I	III	YES
1528D	NO	III	NONE	NO
1529	NO	III	NONE	NO
1527A	YES	I	II	YES
1527F	YES	I	III	YES
1527G	YES	I	III	YES
1527H	NO	III	NONE	NO
1527H	NO	III	NONE	NO
1527J	YES	I	II	YES
1553D	NO	III	NONE	NO

* IT SHALL BE UNDERSTOOD THAT BOUNDARY NUMBERS SHOWN ON THIS DRAWING SHALL CONTAIN THE PREFIX "1S" (I.E. 1S446, ETC.) UNLESS OTHERWISE NOTED.

NO.	DATE	DESCRIPTION	BY	APPR.
0		SEE NOTE "A" - (A-1) SDB		

REVISION

NOTE "A" - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80038023.

SALEM UNIT 2 INSERVICE INSPECTION SUMMARY DIAGRAM LEGEND NOTES

ISI CLASS 2 — Nuclear Class 2, Safety Related components, piping and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

ISI CLASS 3 — Nuclear Class 3, Safety Related components, piping and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SERVICE WATER NUCLEAR AREA
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

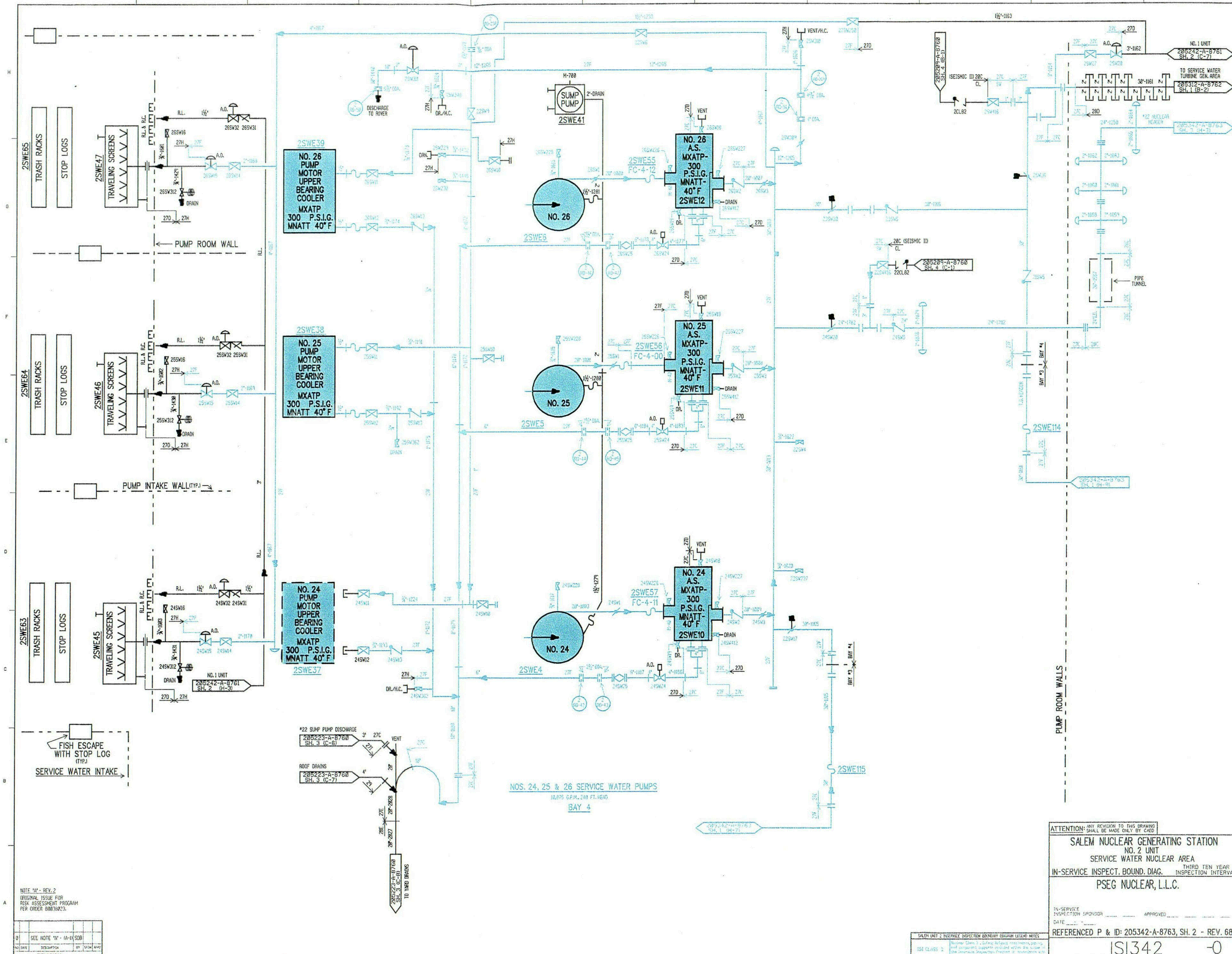
IN-SERVICE INSPECTION SPONSOR _____ APPROVED _____
DATE _____

REFERENCED P & ID: 205342-A-8763, SH. 1 - REV. 69

ISI342 -0

SH. 1 OF 7

C38


2SWE65
TRASH RACKS
STOP LOGS
2SWE47
TRAVELING SCREENS
2SWE64
2SWE46
2SWE63
2SWE45
PUMP ROOM WALL
PUMP INTAKE WALL (TYP.)
FISH ESCAPE WITH STOP LOG (TYP.)
SERVICE WATER INTAKE
2SWE39
NO. 26 PUMP MOTOR UPPER BEARING COOLER
MXATP 300 P.S.I.G. MNATT 40° F
2SWE38
NO. 25 PUMP MOTOR UPPER BEARING COOLER
MXATP 300 P.S.I.G. MNATT 40° F
NO. 24 PUMP MOTOR UPPER BEARING COOLER
MXATP 300 P.S.I.G. MNATT 40° F
2SWE37
SUMP PUMP
2SWE41
NO. 26
NO. 25
NO. 24
NO. 26 A.S. MXATP-300 P.S.I.G. MNATT-40° F 2SWE12
NO. 25 A.S. MXATP-300 P.S.I.G. MNATT-40° F 2SWE11
NO. 24 A.S. MXATP-300 P.S.I.G. MNATT-40° F 2SWE10
2SWE55 FC-4-12
2SWE56 FC-4-00
2SWE57 FC-4-11
2SWE6
2SWE5
2SWE4
2SWE114
2SWE115
PUMP ROOM WALLS
NOS. 24, 25 & 26 SERVICE WATER PUMPS
BAY 4
NO. 1 UNIT 205242-A-8761 SH. 2 (C-7)
TO SERVICE WATER TURBINE GEN. AREA 205342-A-8762 SH. 1 (B-2)
205209-A-8760 SH. 4 (C-1)
#22 SUMP PUMP DISCHARGE 205223-A-8760 SH. 3 (C-6)
ROOF DRAINS 205223-A-8760 SH. 3 (C-7)
205223-A-8760 SH. 3 (C-8) TO YARD DRAINS
NO. 1 UNIT 205242-A-8761 SH. 2 (H-3)
PIPE TUNNEL
NOTE "A" - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80030023.
REVISION

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SERVICE WATER NUCLEAR AREA
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION SPONSOR ____ ____ APPROVED ____ ____ ____ ____
DATE ____ - ____

REFERENCED P & ID: 205342-A-8763, SH. 2 - REV. 68

ISI342 -0

SH. 2

C39

AUXILIARY BUILDING

NO. 22 SAFETY INJECTION PUMP LUBE OIL COOLER MXATP-225 P.S.I.G. MNATT 40°F 2SJE101

NO. 21 RESIDUAL HEAT REMOVAL PUMP ROOM COOLER MXATP-225 P.S.I.G. MNATT 40°F 2VHE31

GEAR OIL COOLER MXATP-225 P.S.I.G. MNATT 40°F 2CVE39

NO. 22 CHARGING PUMP

LUBE OIL COOLER MXATP-225 P.S.I.G. MNATT 40°F 2CVE40

NO. 22 CHARGING PUMP ROOM COOLER MXATP-225 P.S.I.G. MNATT 40°F 2VHE38

NO. 21 CONTAINMENT SPRAY PUMP ROOM COOLER MXATP-225 P.S.I.G. MNATT 40°F 2VHE40

NO. 21 COMPONENT COOLING PUMP ROOM COOLER MXATP-225 P.S.I.G. MNATT 40°F 2VHE33

NO. 2 AUXILIARY FEED WATER PUMP ROOM COOLER MXATP-225 P.S.I.G. MNATT 40°F 2VHE36

NO. 21 COMPONENT COOLING HEAT EXCHANGER MXATP-225 P.S.I.G. MNATT 40°F 2CCE5

NO. 2A DIESEL GENERATOR JACKET WATER COOLER MXATP-300 P.S.I.G. MNATT 40°F 2DAE58

NO. 2B DIESEL GENERATOR JACKET WATER COOLER MXATP-300 P.S.I.G. MNATT 40°F 2DAE59

NO. 2C DIESEL GENERATOR JACKET WATER COOLER MXATP-300 P.S.I.G. MNATT 40°F 2DAE60

NO. 2A DIESEL GEN. LUBE OIL COOLER MXATP-300 P.S.I.G. MNATT 40°F 2DAE1

NO. 2B DIESEL GEN. LUBE OIL COOLER MXATP-300 P.S.I.G. MNATT 40°F 2DAE2

NO. 2C DIESEL GEN. LUBE OIL COOLER MXATP-300 P.S.I.G. MNATT 40°F 2DAE3

YARD

REVISION					
0	SEE NOTE 'M' - REV. 2				
NO.	DATE	DESCRIPTION	BY	CHK'D	APP'D

NOTE 'M' - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80036803.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SERVICE WATER NUCLEAR AREA
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION SPONSOR _____ APPROVED _____
DATE _____

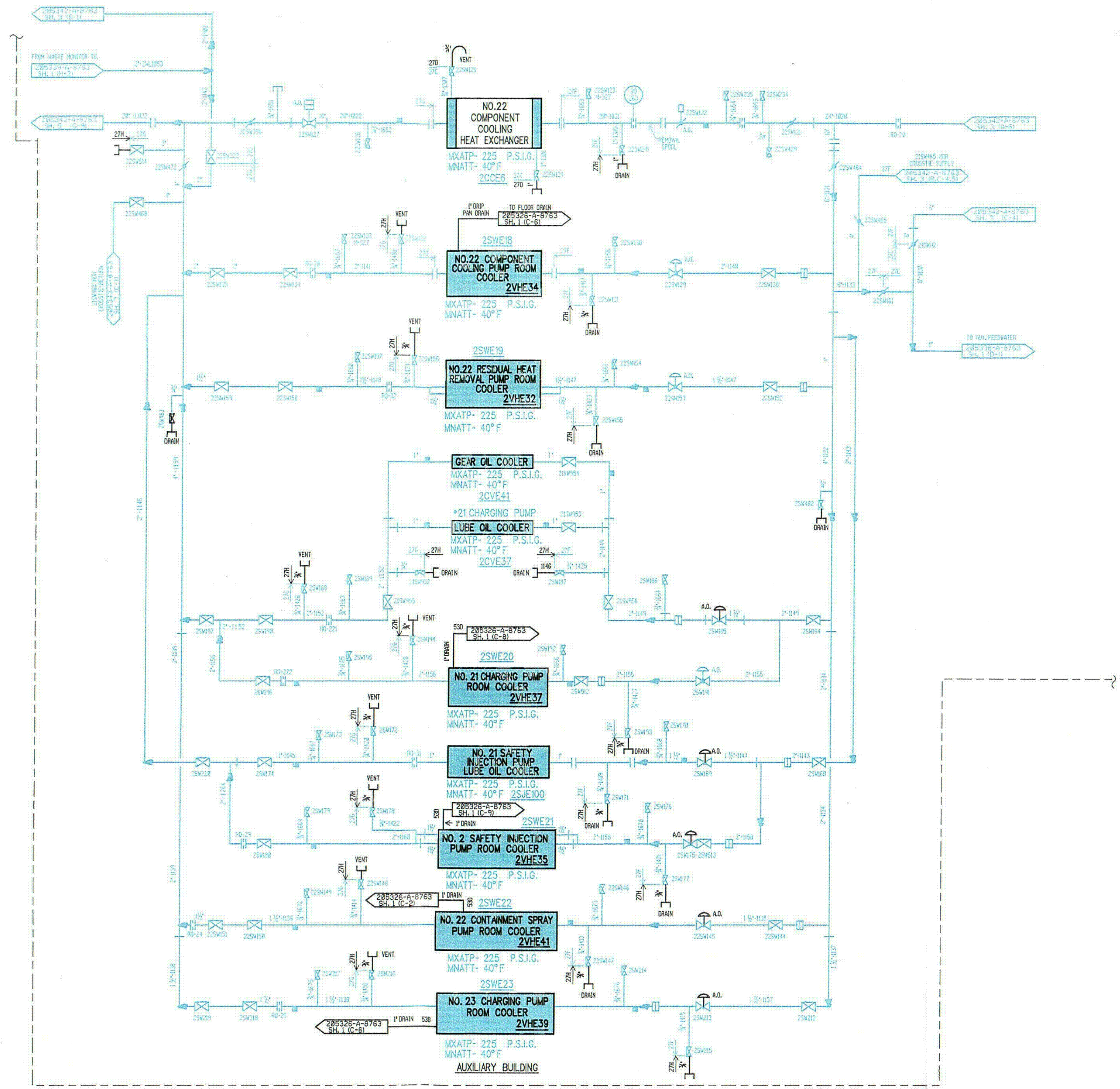
REFERENCED P & ID: 205342-A-8763, SH. 3 - REV. 65

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES
SEE SHEET 2

IS1342 -0

SH. 3

C40



NOTE "A" - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80038023.

NO	DATE	DESCRIPTION	BY	CHKD	APPD
0		SEE NOTE "A" - 10-11 SDB			

REVISION

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SERVICE WATER NUCLEAR AREA
IN-SERVICE INSPECT. BOUND. DIAG.
THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

REFERENCED P & ID: 205342-A-8763, SH. 4 - REV. 52

ISI342 -0

SH. 4

C41

ABANDONED IN PLACE

NO. 2B STEAM GENERATOR BLOWDOWN HEAT EXCHANGER
MXATP-300 P.S.I.G.
MNATT-40° F
2GBE4

NO. 2A STEAM GENERATOR BLOWDOWN HEAT EXCHANGER
MXATP-300 P.S.I.G.
MNATT-40° F
2GBE3

NO. 21 CHILLER CONDENSER
MXATP-300 P.S.I.G.
MNATT- 40° F
2CHE9

NO. 22 CHILLER CONDENSER
MXATP-300 P.S.I.G.
MNATT- 40° F
2CHE10

NO. 23 CHILLER CONDENSER
MXATP-300 P.S.I.G.
MNATT- 40° F
2CHE11

NO. 21 2SWE81 — 2CHE20 CHILL COND. WATER RECIRC. PUMP 198 G.P.M. - 95 FT. T.D.H.

NO. 22 2SWE82 — 2CHE21 CHILL COND. WATER RECIRC. PUMP 198 G.P.M. - 95 FT. T.D.H.

NO. 23 2SWE83 — 2CHE22 CHILL COND. WATER RECIRC. PUMP 198 G.P.M. - 95 FT. T.D.H.

TEMPORARY STRAINER SPOOL NOTE 7

10" BLOW DOWN LINE

EMERGENCY SUPPLY TO EMERGENCY CONTROL AIR COMPRESSOR 205215-H-1068 SH. 3 (F-5)

EMERGENCY RETURN FROM EMERGENCY CONTROL AIR COMPRESSOR 205215-H-1068 SH. 3 (F-5)

AUXILIARY BUILDING

NOTE "A" - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80030003.

NO	DATE	DESCRIPTION	BY	CHK	APVD
B		SEE NOTE "A" - IA-11 SOB			

REVISION

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

ISI GL 88-1 3

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAD

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SERVICE WATER NUCLEAR AREA
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION SPONSOR _____ APPROVED _____
DATE _____

REFERENCED P & ID: 205342-A-8763, SH. 5 - REV. 55

ISI342 -0

SH. 5

C4F2

CONTAINMENT AREA

2SWE24
NO. 21 CONTAINMENT FAN COIL UNIT
MXATP- 225 P.S.I.G.
MNATT- 40° F

2SWE29
MOTOR COOLER
MXATP- 225 P.S.I.G.
MNATT- 40° F

2SWE25
NO. 22 CONTAINMENT FAN COIL UNIT
MXATP- 225 P.S.I.G.
MNATT- 40° F

2SWE30
MOTOR COOLER
MXATP- 225 P.S.I.G.
MNATT- 40° F

2SWE26
NO. 23 CONTAINMENT FAN COIL UNIT
MXATP- 225 P.S.I.G.
MNATT- 40° F

2SWE31
MOTOR COOLER
MXATP- 225 P.S.I.G.
MNATT- 40° F

2SWE27
NO. 24 CONTAINMENT FAN COIL UNIT
MXATP- 225 P.S.I.G.
MNATT- 40° F

2SWE32
MOTOR COOLER
MXATP- 225 P.S.I.G.
MNATT- 40° F

2SWE28
NO. 25 CONTAINMENT FAN COIL UNIT
MXATP- 225 P.S.I.G.
MNATT- 40° F

2SWE33
MOTOR COOLER
MXATP- 225 P.S.I.G.
MNATT- 40° F

CONTAINMENT AREA

AUXILIARY BUILDING

NOTE 'M' - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 980303823.

NO.	DATE	DESCRIPTION	BY	CHK'D	APP'D
0		SEE NOTE 'M' - 11-11-98			

REVISION

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports installed within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
ISI CLASS 3	Nuclear Class 3, Safety Related components, piping, and component supports installed within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SERVICE WATER NUCLEAR AREA
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

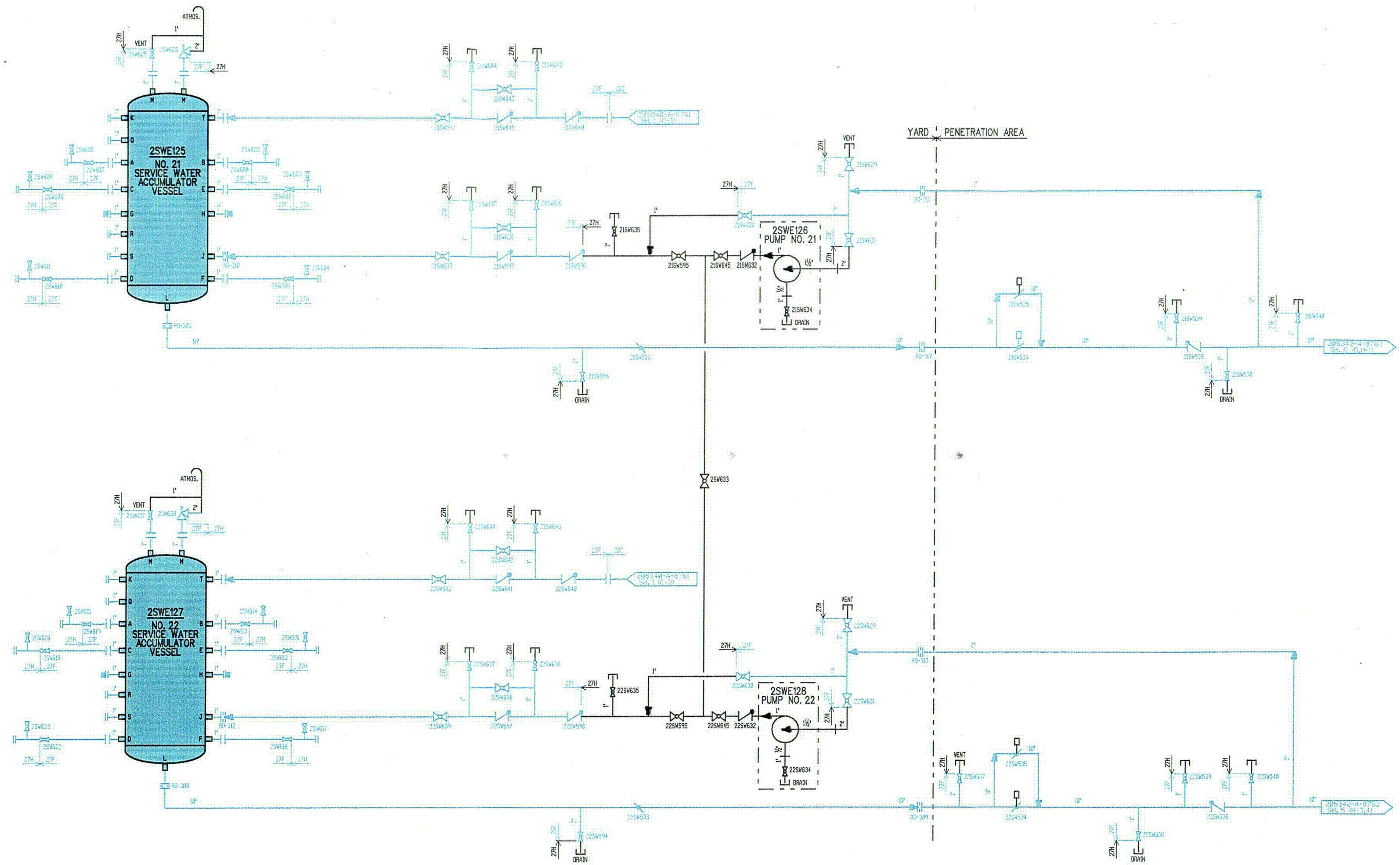
IN-SERVICE INSPECTION SPONSOR _____ APPROVED _____
DATE _____

REFERENCED P & ID: 205342-A-8763, SH. 6 - REV. 57

ISI342 -0

SH. 6

C43



NOTE "A" - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 80038023.

NO	DATE	DESCRIPTION	BY	SPON	APPD
0		SEE NOTE "A" - (A-1)	SDB		

REVISION

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

ISI CLASS 3

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SERVICE WATER NUCLEAR AREA
IN-SERVICE INSPECT. BOUND. DIAG.
THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

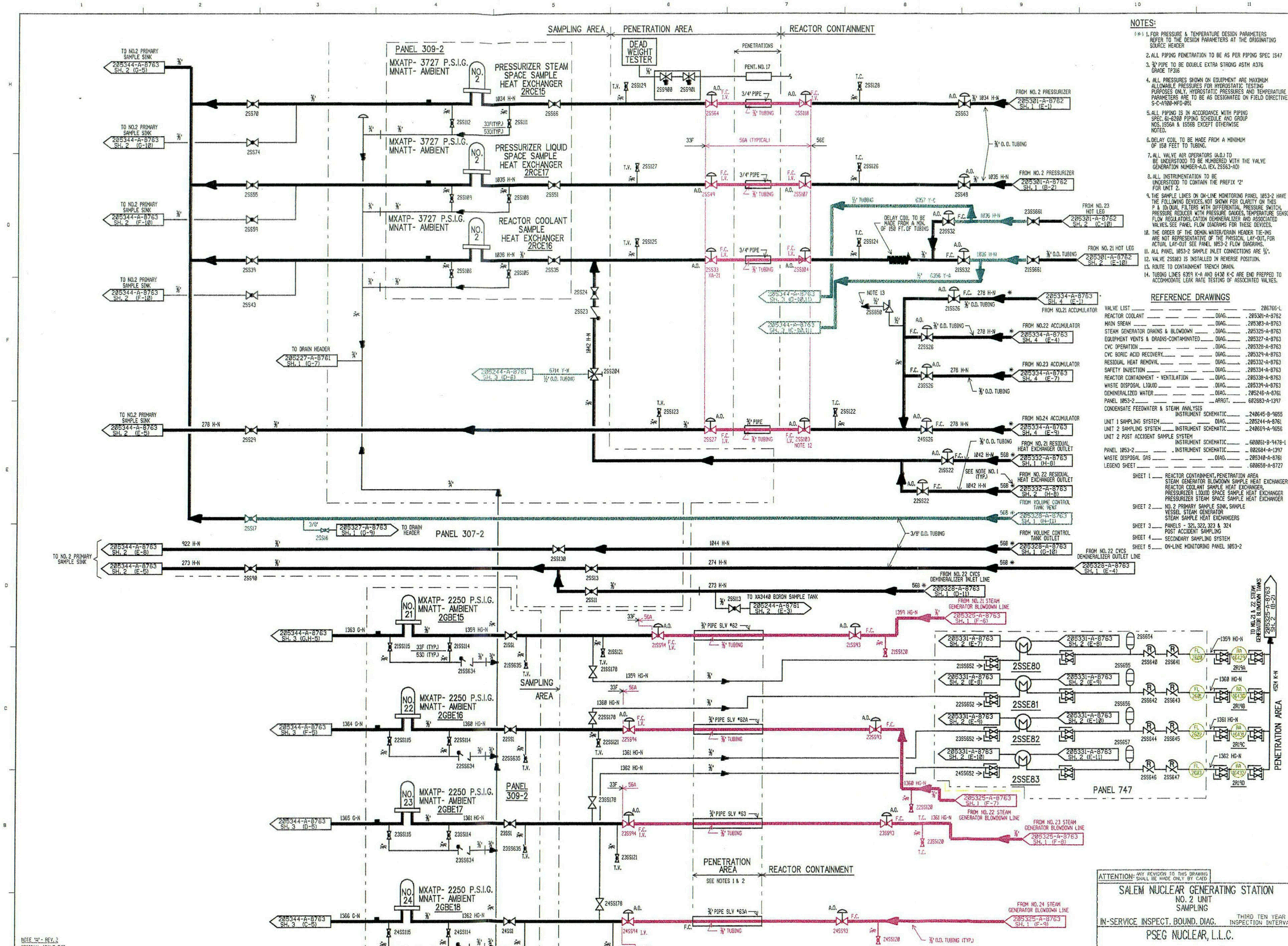
IN-SERVICE INSPECTION SPONSOR ____ APPROVED ____
DATE ____

REFERENCED P & ID: 205342-A-8763, SH. 7 - REV. 04

ISI342 -0

SH. 7

C44



NOTES:

1. FOR PRESSURE & TEMPERATURE DESIGN PARAMETERS REFER TO THE DESIGN PARAMETERS AT THE ORIGINATING SOURCE HEADER
2. ALL PIPING PENETRATION TO BE AS PER PIPING SPEC 1S47
3. ¾" PIPE TO BE DOUBLE EXTRA STRONG ASTM A376 GRADE TP316
4. ALL PRESSURES SHOWN ON EQUIPMENT ARE MAXIMUM ALLOWABLE PRESSURES FOR HYDROSTATIC TESTING PURPOSES ONLY. HYDROSTATIC PRESSURES AND TEMPERATURE PARAMETERS ARE TO BE AS DESIGNATED ON FIELD DIRECTIVE S-C-A900-MFD-051
5. ALL PIPING IS IN ACCORDANCE WITH PIPING SPEC. 61-6200 PIPING SCHEDULE AND GROUP NOS. 1S56A & 1S56B EXCEPT OTHERWISE NOTED.
6. DELAY COIL TO BE MADE FROM A MINIMUM OF 150 FEET TO TUBING.
7. ALL VALVE AIR OPERATORS (A.O.) TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.O. (EX. 2SS63-AO)
8. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX '2' FOR UNIT 2.
9. THE SAMPLE LINES ON ON-LINE MONITORING PANEL 1053-2 HAVE THE FOLLOWING DEVICES, NOT SHOWN FOR CLARITY ON THIS P & ID: DUAL FILTERS WITH DIFFERENTIAL PRESSURE SWITCH, PRESSURE REDUCER WITH PRESSURE GAUGES, TEMPERATURE SENSOR, FLOW REGULATORS, CATION DEMINERALIZER AND ASSOCIATED VALVES. SEE PANEL FLOW DIAGRAMS FOR THESE DEVICES.
10. THE ORDER OF THE DEMIN. WATER/DRAIN HEADER TIE-INS ARE NOT REPRESENTATIVE OF THE PHYSICAL LAY-OUT, FOR ACTUAL LAY-OUT SEE PANEL 1053-2 FLOW DIAGRAMS.
11. ALL PANEL 1053-2 SAMPLE INLET CONNECTIONS ARE ¼".
12. VALVE 2SS103 IS INSTALLED IN REVERSE POSITION.
13. ROUTE TO CONTAINMENT TRENCH DRAIN.
14. TUBING LINES 6359 K-A AND 6430 K-C ARE END PREPPED TO ACCOMMODATE LEAK RATE TESTING OF ASSOCIATED VALVES.

REFERENCE DRAWINGS

VALVE LIST		206766-L
REACTOR COOLANT	DIAG.	205301-A-8762
MAIN SREAM	DIAG.	205303-A-8763
STEAM GENERATOR DRAINS & BLOWDOWN	DIAG.	205325-A-8763
EQUIPMENT VENTS & DRAINS-CONTAMINATED	DIAG.	205327-A-8763
CVC OPERATION	DIAG.	205328-A-8763
CVC BORIC ACID RECOVERY	DIAG.	205329-A-8763
RESIDUAL HEAT REMOVAL	DIAG.	205332-A-8763
SAFETY INJECTION	DIAG.	205334-A-8763
REACTOR CONTAINMENT - VENTILATION	DIAG.	205338-A-8763
WASTE DISPOSAL LIQUID	DIAG.	205339-A-8763
DEMINERALIZED WATER	DIAG.	205246-A-8761
PANEL 1053-2	ARRGT.	602683-A-1397
CONDENSATE FEEDWATER & STEAM ANALYSIS	INSTRUMENT SCHEMATIC	240645-B-9655
UNIT 1 SAMPLING SYSTEM	DIAG.	205244-A-8761
UNIT 2 SAMPLING SYSTEM	INSTRUMENT SCHEMATIC	240669-A-9656
UNIT 2 POST ACCIDENT SAMPLE SYSTEM	INSTRUMENT SCHEMATIC	600061-B-9478-1
PANEL 1053-2	INSTRUMENT SCHEMATIC	602684-A-1397
WASTE DISPOSAL GAS	DIAG.	205340-A-8761
LEGEND SHEET		600658-A-8727

SHEET 1 — REACTOR CONTAINMENT, PENETRATION AREA STEAM GENERATOR BLOWDOWN SAMPLE HEAT EXCHANGERS, REACTOR COOLANT SAMPLE HEAT EXCHANGER, PRESSURIZER LIQUID SPACE SAMPLE HEAT EXCHANGER PRESSURIZER STEAM SPACE SAMPLE HEAT EXCHANGER

SHEET 2 — NO. 2 PRIMARY SAMPLE SINK, SAMPLE VESSEL STEAM GENERATOR STEAM SAMPLE HEAT EXCHANGERS

SHEET 3 — PANELS - 321, 322, 323 & 324 POST ACCIDENT SAMPLING

SHEET 4 — SECONDARY SAMPLING SYSTEM

SHEET 5 — ON-LINE MONITORING PANEL 1053-2

NOTE 'A' - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80038023.

NO	DATE	DESCRIPTION	BY	SHCK	APPD
0		SEE NOTE 'A' - (A-1)	SOB		

REVISION

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
AE/VT	Nuclear Class 2 & 3, non-Safety Related (NSR) components and piping, included within specific System Pressure Test (SPT) boundaries. These are largely extensions of the Section XI boundaries to isolation valves, or included per NUREG-0578. They are subject to VT-2 visual examination only.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SAMPLING

IN-SERVICE INSPECT. BOUND. DIAG.
THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

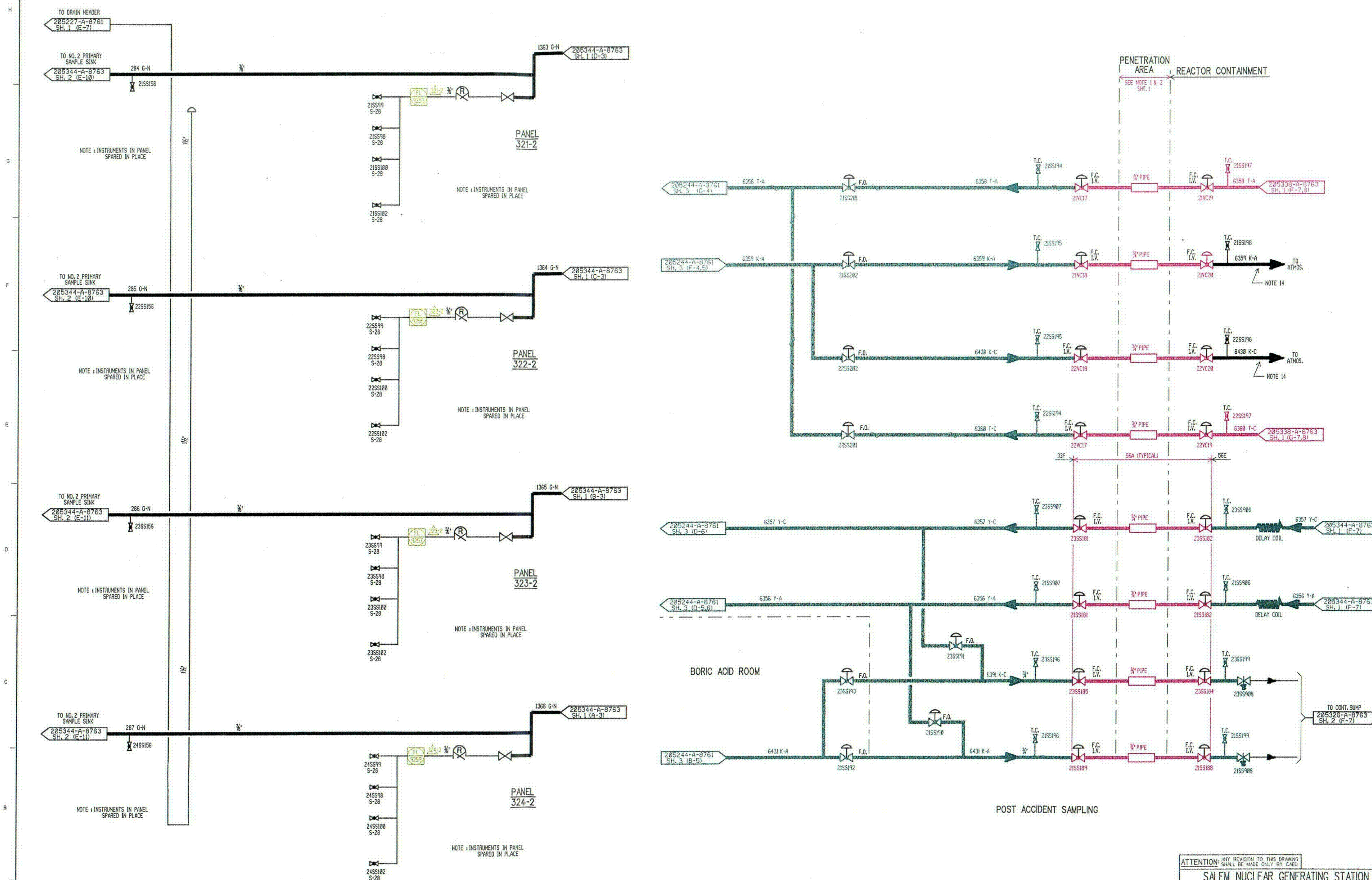
IN-SERVICE INSPECTION SPONSOR ____ APPROVED ____
DATE ____

REFERENCED P & ID: 205344-A-8763, SH. 1 - REV. 38

ISI344 -0

SH. 1

C45



NOTE "W" - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80030023.

0	SEE NOTE "W" - (A-1)	SDB		
	REVISION			

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES	
ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
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SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SAMPLING

IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

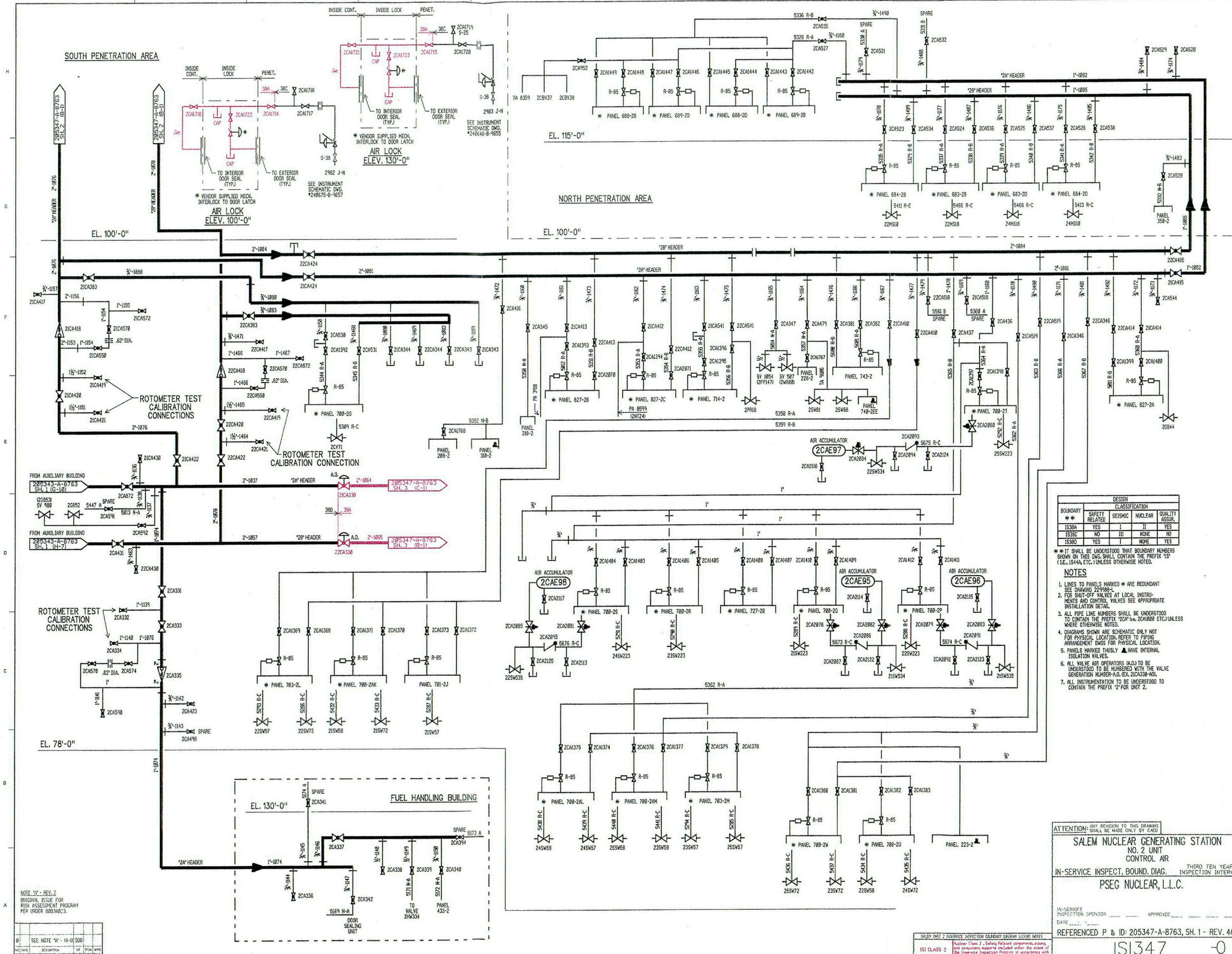
IN-SERVICE INSPECTION SPONSOR ____ APPROVED ____
DATE ____

REFERENCED P & ID: 205344-A-8763, SH. 3 - REV. 30

ISI344 -0

SH. 3

CH6



BOUNDARY **	DESIGN CLASSIFICATION: SAFETY RELATED	SEISMIC	NUCLEAR	QUALITY ASSUR.
1S38A	YES	I	II	YES
1S38C	NO	III	NONE	NO
1S38D	YES	I	NONE	YES

** IT SHALL BE UNDERSTOOD THAT BOUNDARY NUMBERS SHOWN ON THIS DWG. SHALL CONTAIN THE PREFIX '1S' (I.E., 1S44A, ETC.) UNLESS OTHERWISE NOTED.

NOTES

1. LINES TO PANELS MARKED * ARE REDUNDANT SEE DRAWING 229988-L
2. FOR SHUT-OFF VALVES AT LOCAL INSTRUMENTS AND CONTROL VALVES SEE APPROPRIATE INSTALLATION DETAIL.
3. ALL PIPE LINE NUMBERS SHALL BE UNDERSTOOD TO CONTAIN THE PREFIX '2CA' (ie. 2CA1000 ETC.) UNLESS WHERE OTHERWISE NOTED.
4. DIAGRAMS SHOWN ARE SCHEMATIC ONLY NOT FOR PHYSICAL LOCATION. REFER TO PIPING ARRANGEMENT DWGS FOR PHYSICAL LOCATION.
5. PANELS MARKED THUSLY ▲ HAVE INTERNAL ISOLATION VALVES.
6. ALL VALVE AIR OPERATORS (A.O.) TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.O. (EX. 21CA330-AO).
7. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX '2' FOR UNIT 2.

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
CONTROL AIR

IN-SERVICE INSPECT. BOUND. DIAG. — THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

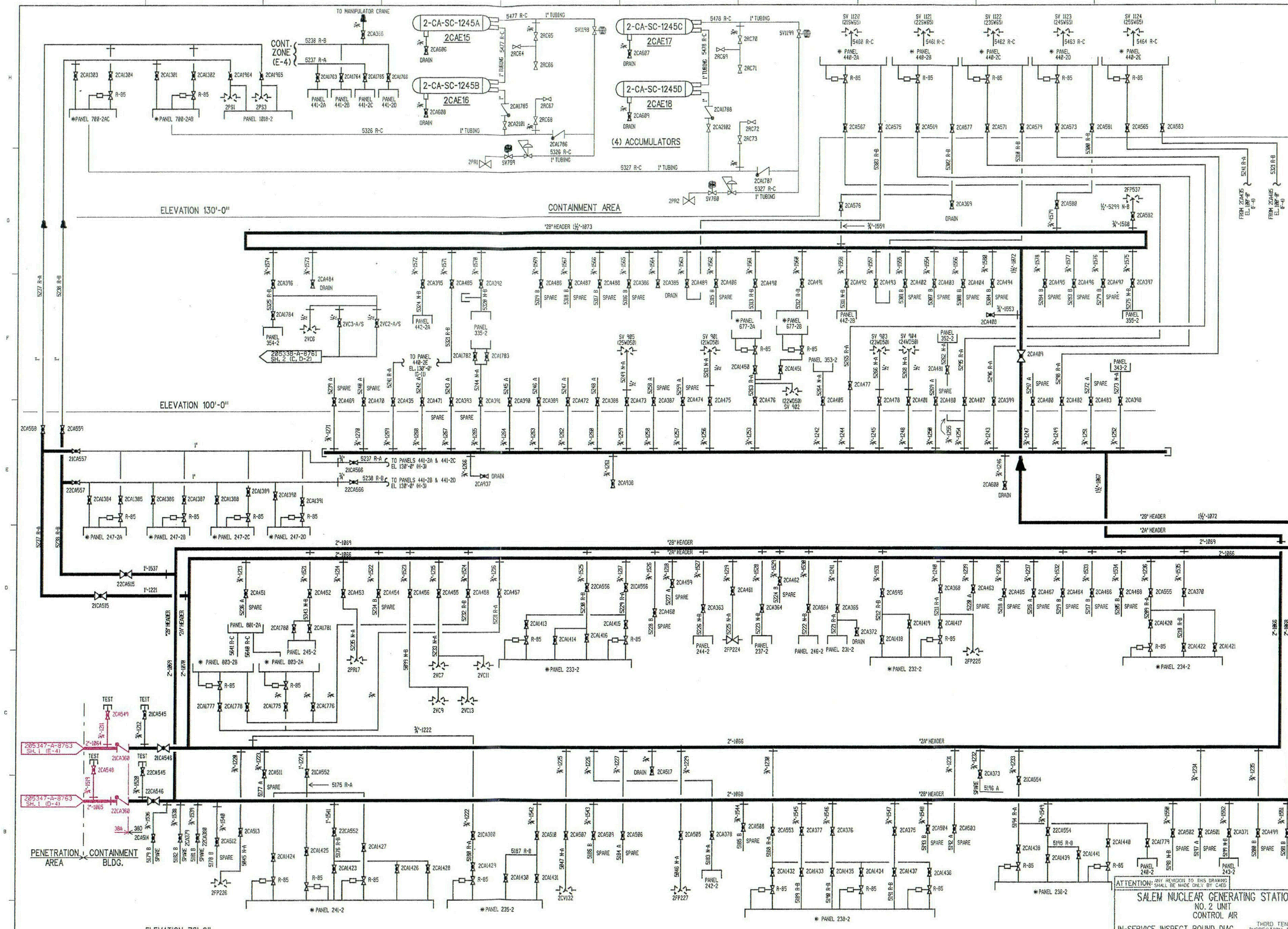
IN-SERVICE INSPECTION SPONSOR ____ APPROVED ____
DATE ____

REFERENCED P & ID: 205347-A-8763, SH. 1 - REV. 40

ISI347 -0

SH. 1

C47



NOTE 'A' - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80038023.

NO	DATE	DESCRIPTION	BY	SPON	APPD
0		SEE NOTE 'A' - (A-D)	SDB		

REVISION

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES	
ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
CONTROL AIR
IN-SERVICE INSPECT. BOUND. DIAG.
THIRD TEN YEAR INSPECTION INTERVAL

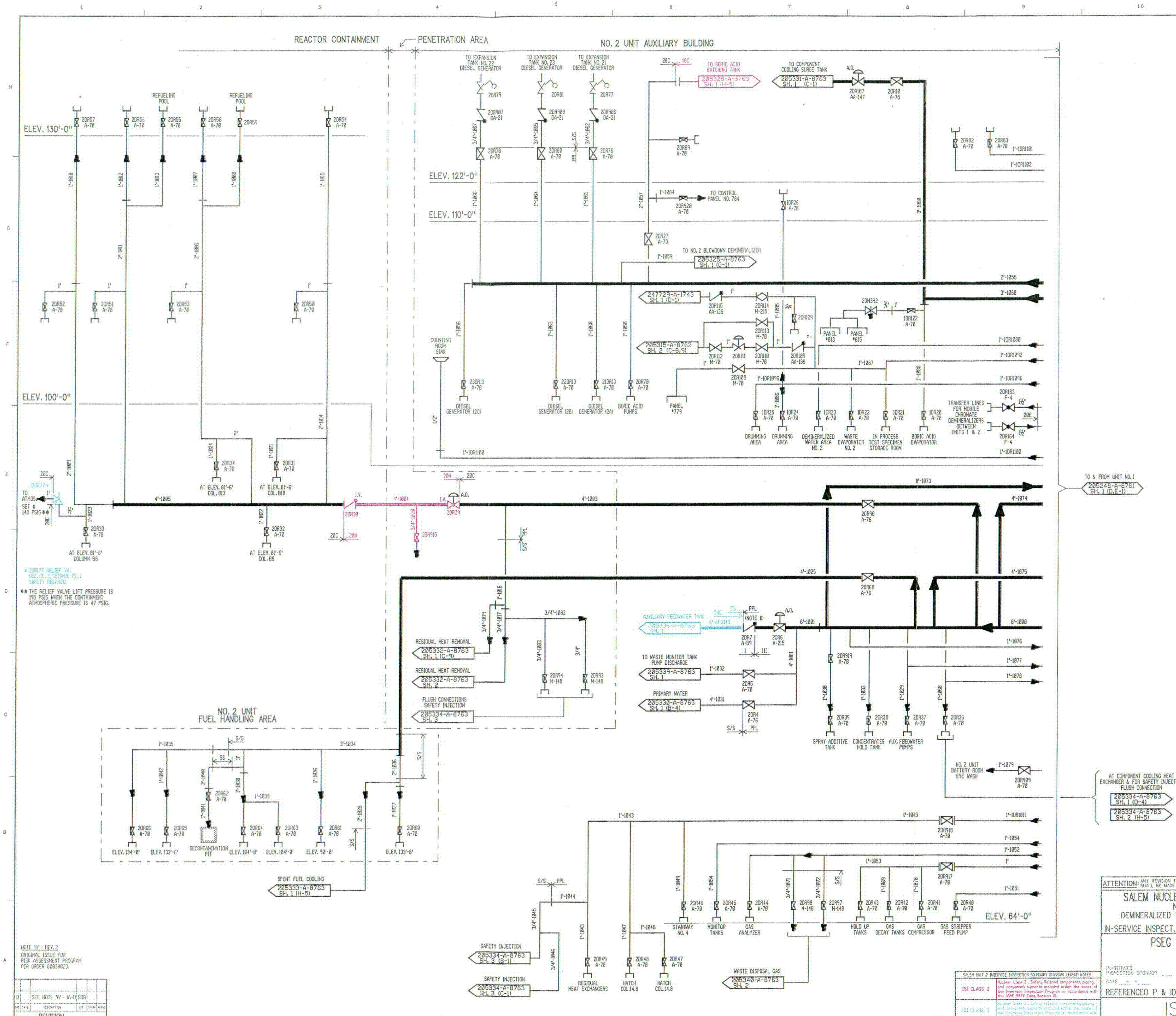
PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION SPONSOR ____ APPROVED ____
DATE ____

REFERENCED P & ID: 205347-A-8763, SH. 3 - REV. 33

ISI347 -0

SH. 3


REACTOR CONTAINMENT
PENETRATION AREA
NO. 2 UNIT AUXILIARY BUILDING
ELEV. 130'-0"
ELEV. 122'-0"
ELEV. 110'-0"
ELEV. 100'-0"
ELEV. 64'-0"
REFUELING POOL
TO EXPANSION TANK NO. 22 DIESEL GENERATOR
TO EXPANSION TANK NO. 23 DIESEL GENERATOR
TO EXPANSION TANK NO. 21 DIESEL GENERATOR
TO BORIC ACID BATCHING TANK
205328-A-8763 SH. 1 (H-9)
TO COMPONENT COOLING SURGE TANK
205331-A-8763 SH. 1 (C-1)
TO CONTROL PANEL NO. 704
TO NO. 2 BLOWDOWN DEMINERALIZER
205326-A-8763 SH. 1 (G-1)
247729-A-1743 SH. 1 (D-1)
205315-A-8762 SH. 2 (C-8,9)
COUNTING ROOM SINK
DIESEL GENERATOR (2C)
DIESEL GENERATOR (2B)
DIESEL GENERATOR (2A)
BORIC ACID PUMPS
PANEL #779
DRUMMING AREA
DEMINERALIZED WATER AREA NO. 2
WASTE EVAPORATOR NO. 2
IN PROCESS TEST SPECIMEN STORAGE ROOM
BORIC ACID EVAPORATOR
TRANSFER LINES FOR MOBILE CHROMATE DEMINERALIZERS BETWEEN UNITS 1 & 2
TO & FROM UNIT NO. 1
205246-A-8761 SH. 1 (D,E-1)
TO ATMOS.
SET @ 140 PSIG **
AT ELEV. 81'-6" COLUMN BB
AT ELEV. 81'-6" COL. BB
AT ELEV. 81'-6" COL. B13
AT ELEV. 81'-6" COL. B18
* QUALITY RELIEF VA. NUC. CL. 3 SEISMIC CL. 1 SAFETY RELATED
** THE RELIEF VALVE LIFT PRESSURE IS 145 PSIG WHEN THE CONTAINMENT ATMOSPHERIC PRESSURE IS 47 PSIG.
RESIDUAL HEAT REMOVAL
205332-A-8763 SH. 1 (C-9)
RESIDUAL HEAT REMOVAL
205332-A-8763 SH. 2
FLUSH CONNECTIONS SAFETY INJECTION
205334-A-8763 SH. 3
AUXILIARY FEEDWATER TANK
TO WASTE MONITOR TANK PUMP DISCHARGE
205339-A-8763 SH. 1
PRIMARY WATER
205330-A-8763 SH. 1 (B-4)
SPRAY ADDITIVE TANK
CONCENTRATES HOLD TANK
AUX. FEEDWATER PUMPS
NO. 2 UNIT BATTERY ROOM EYE WASH
AT COMPONENT COOLING HEAT EXCHANGER & FOR SAFETY INJECTION FLUSH CONNECTION
205334-A-8763 SH. 1 (D-4)
205334-A-8763 SH. 2 (H-5)
NO. 2 UNIT FUEL HANDLING AREA
DECONTAMINATION PIT
SPENT FUEL COOLING
205333-A-8763 SH. 1 (H-5)
SAFETY INJECTION
205334-A-8763 SH. 3 (B-1)
SAFETY INJECTION
205334-A-8763 SH. 3 (C-1)
RESIDUAL HEAT EXCHANGERS
HATCH COL. 14.8
STAIRWAY NO. 4
MONITOR TANKS
GAS ANALYZER
HOLD UP TANKS
GAS DECAY TANKS
GAS COMPRESSOR
GAS STRIPPER FEED PUMP
WASTE DISPOSAL GAS
205340-A-8763 SH. 2
NOTE 'W' - REV. 2
ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 80030223.
SEE NOTE 'W'
REVISION

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 1 & 2 UNITS
DEMINERALIZED WATER - RESTRICTED AREAS
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL

PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION SPONSOR ______ APPROVED ______
DATE ______

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES

ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.
ISI CLASS 3	Nuclear Class 3, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME B&PV Code, Section XI.

REFERENCED P & ID: 205246-A-8761, SH. 2 - REV. 36

ISI246 -0

SH. 2

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