DWG. NO. OFD-1210-1.5

SAMPLE TO CA
CA B-1 OFD-1109A-1.1

STEAM GENERATOR "1A" 1RC HX000A

1FDW-133 1FDW-134 1FDW-334 1FDW-138 1FDW-146 1FDW-137 1FDW-140 1FDW-139 1FDW-144 1FDW-148 1FDW-142 1FDW-143 1FDW-141

FDW LWD
CS C-7 OFD-107A-1.1 VENT TO QUENCH TANK

SAMPLE TO CA
CA E-1 OFD-1109A-1.1

OTSG RECIRC. TANK 1FDWTK0001

FILL 2" 1FDW-343

FDW DW 21

DW I-5 OFD-106E-1.1 FROM DEMINERALIZED WATER HEADER

1DW-237 1DW-236 1"

1FDW-342 1FDW-344 3/4" 1FDW-341 1FDW-340

1FDW-336 1FDW-339 1FDW-337

FDWFE 0156

BEARING COOLING RECIRC LINE

1FDW-446 1FDW-319 1FDW-429

OTSG RECIRC. PUMP 1FDWPU0006

1FDW-323 1FDW-322 1FDW-328 1FDW-320 1FDW-321

FDWPS 0244 FDWTH 0032 FDWPS 0245

1FDW-330 1FDW-201 1FDW-329

ESZ 1FDW-103 1FDW-104 ESZ

1FDW-331 1FDW-408 1FDW-215 1FDW-332 1FDW-333 1FDW-335

NOTE 8 NOTE 9

TO STEAM GEN. "B" EMERG. FEED HDR. FDW F-14 OFD-121D-1.1 1FDW-327 1FDW-326 1FDW-325 1FDW-324

TO D HEATER DRAIN PUMP BYPASS TO CONDENSER MD F-9 OFD-123A-1.5

TO CONDENSATE STORAGE TANK C F-13 OFD-121A-1.7

FILL 1FDW-302 1FDW-303 1FDW-306 1FDW-297 1FDW-298 1FDW-295 1FDW-296 1FDW-304

OTSG WET LAYUP CHEMICAL ADDITION TANK 1FDWTK0002

OTSG WET LAYUP RECIRC. PUMP 1FDWPU0007

1FDW-407 1FDW-305 1FDW-299

NOTE 2

TO STEAM GEN. "A" EMERG. FEED HDR. FDW E-11 OFD-1210-1.1

1FDW-301 1FDW-300 1FDW-446

GUARD PIPE AND VALVE ENCLOSURE COMPONENTS TO PROVIDE SECURITY BOUNDARY

TO STEAM GEN. "B" EMERG. FEED HDR. FDW C-18 OFD-1210-1.1

SAMPLE TO CA
CA F-1 OFD-1109A-1.1

STEAM GENERATOR "1B" 1RC HX000B

1FDW-135 1FDW-136 1FDW-208 1FDW-211 1FDW-203 1FDW-205 1FDW-204 1FDW-207 1FDW-209 1FDW-213 1FDW-208 1FDW-206

CA E-1 OFD-1109A-1.1 SAMPLE TO CA

1FDW-240 1FDW-241

"FOR INSPECTION PURPOSES ONLY"

"OE #2169"

"OE #2165"

8905250237

Docket # 50-269
Control # 8905230792
Date 5/15/89 of Document
REGULATORY DOCKET FILE

SI APERTURE CARD

DESIGN PARAMETERS

LINE NO.	DUKE CLASS	DESIGN PRESS	DESIGN TEMP	MATERIAL	PIPE SPEC. NO.	PIPE SCH. NO.	ISI CLASS
03	G	1275 PSIG	475°F	CS	600.5	NOTE 4	-
07	F	1050 PSIG	600°F	CS	600.4	NOTE 4	B
08	F	1050 PSIG	600°F	SS	601.4-TSE701.2	NOTE 5	B
09	F	1050 PSIG	600°F	CS	600.4	SCH-120	B
11	F	1275 PSIG	475°F	CS	600.5	NOTE 4	B
16	F	1050 PSIG	600°F	CS	600.4	NOTE 4	C
17	G	1050 PSIG	600°F	CS	600.4	NOTE 4	-
21	G	1050 PSIG	600°F	CS	600.4	NOTE 4	-
25	G	35 PSIG	110°F	CS	150.4	NOTE 6	-
27	G	150 PSIG	300°F	CS	150.4	NOTE 8	-
28	G	NOTE 11	NOTE 11	CS	600.4	SCH 80	-
29	G	135 PSIG	240°F	CS	600.4	SCH 80	-

DESIGN FLOW

NO.	FLOW
11.	1440 PSIG 80°F, 150 PSIG 300°F

NOTES:

1. OPERATING MODE REPRESENTED BY BOLD LINES: STEAM GENERATOR RECIRCULATION (NOTE: ONLY ONE STEAM GENERATOR IS RECIRCULATED AT A TIME).
2. OPEN SIDE OF SPECTACLE FLANGE (3/32" THICK) TO BE INSTALLED ONLY WHEN STEAM GENERATOR PRESSURE IS BELOW 35 PSIG. BLANK SIDE OF SPECTACLE FLANGE (3/32" THICK) TO BE INSTALLED WHEN STEAM GENERATOR PRESSURE IS ABOVE 35 PSIG.
3. OPEN SIDE OF SPECTACLE FLANGE (3/32" THICK) TO BE INSTALLED ONLY WHEN DRAINING SECONDARY SIDE TO CONTAINMENT DRAIN PUMP. BLANK SIDE OF SPECTACLE FLANGE (3/32" THICK) IS TO BE INSTALLED ONLY WHEN THE REACTOR IS IN OPERATION.
4. 1/2" THRU 24" SCH. STD
5. 1/2" THRU 2" SCH. 80
   THRU #64 1/4": .095" WALL
   3/8": .095" WALL
   1/2": .095" WALL
6. 1/2" THRU 10" SCH. 40
   12" THRU 16" STD

NO.	REVISIONS	DRAWN	CHKD	DATE	APPD	DATE
9	RSN PER OE-1267, IMP DATE 10/26/87	MJS	DHB	2-15-88	TDA	3/1/88
8.	RSN PER OE-1206, IMP DATE 10/26/87	MJS	DHB	2-15-88	TDA	3/1/88
7.	ADDED LINE SIZE & CONT. COORD. @J-6	MJS	SEF	12-4-86	TDA	12-4-86
6.	REV. PER NSM-1418, REV. 0, FOR A IMP. DATE 10/26/87 & CONT. COORD. @ J-6	MJS	DHB	2-15-88	TDA	3/1/88
5.	REV PER VALOE-04-84	MJS	DHB	2-15-88	TDA	3/1/88
4.	REV. PER VALOE-04-84, ADDED 3-1/2"x4" REDUCER @ N-6, 4"x3" REDUCER @ N-5, 3"x2" REDUCER @ N-4, 2" CAP @ N-3, 2" CAP @ N-2, 2" CAP @ N-1, 2" CAP @ M-1, 2" CAP @ L-1, 2" CAP @ K-1, 2" CAP @ J-1, 2" CAP @ H-1, 2" CAP @ G-1, 2" CAP @ F-1, 2" CAP @ E-1, 2" CAP @ D-1, 2" CAP @ C-1, 2" CAP @ B-1, 2" CAP @ A-1, 2" CAP @ A-2, 2" CAP @ A-3, 2" CAP @ A-4, 2" CAP @ A-5, 2" CAP @ A-6, 2" CAP @ A-7, 2" CAP @ A-8, 2" CAP @ A-9, 2" CAP @ A-10, 2" CAP @ A-11, 2" CAP @ A-12, 2" CAP @ A-13, 2" CAP @ A-14, 2" CAP @ A-15, 2" CAP @ A-16, 2" CAP @ A-17, 2" CAP @ A-18, 2" CAP @ A-19, 2" CAP @ A-20, 2" CAP @ A-21, 2" CAP @ A-22, 2" CAP @ A-23, 2" CAP @ A-24, 2" CAP @ A-25, 2" CAP @ A-26, 2" CAP @ A-27, 2" CAP @ A-28, 2" CAP @ A-29, 2" CAP @ A-30, 2" CAP @ A-31, 2" CAP @ A-32, 2" CAP @ A-33, 2" CAP @ A-34, 2" CAP @ A-35, 2" CAP @ A-36, 2" CAP @ A-37, 2" CAP @ A-38, 2" CAP @ A-39, 2" CAP @ A-40, 2" CAP @ A-41, 2" CAP @ A-42, 2" CAP @ A-43, 2" CAP @ A-44, 2" CAP @ A-45, 2" CAP @ A-46, 2" CAP @ A-47, 2" CAP @ A-48, 2" 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