DWG.NO. MC-ISIL-1572-03.00 REV 0

1BB-098L-B

1SM-006L-B

STEAM GENERATOR XX 1A

STEAM GEN. "1A" BLOWDOWN BB E-1 MC-ISIL-1580-01.00

1NM0495 1NM0186 1NM0189 1NM0424 1NM0187A 1NM0190A 1NM0255 SET AT 1300 PSIG 1NM0191B 1NM0192 1NM0193 1NM0228 1NM0229 1NM0259

CONT. FLOOR SUMP "1A" WL E-12 MCFD-1565-01.00

STEAM GENERATOR XX 1B

STEAM GEN. "1B" BLOWDOWN BB E-6 MC-ISIL-1580-01.00

1NM0496 1NM0196 1NM0199 1NM0425 1NM0197B 1NM0200B 1NM0256 SET AT 1300 PSIG 1NM0201A 1NM0202 1NM0203 1NM0232 1NM0233 1NM0260

STEAM GENERATOR XX 1C

STEAM GEN. "1C" BLOWDOWN BB E-14 MC-ISIL-1580-01.00

1NM0497 1NM0206 1NM0209 1NM0426 1NM0207A 1NM0210A 1NM0257 SET AT 1300 PSIG 1NM0211B 1NM0212 1NM0213 1NM0236 1NM0237 1NM0261

STEAM GENERATOR XX 1D

STEAM GEN. "1D" BLOWDOWN BB E-11 MC-ISIL-1580-01.00

1NM0498 1NM0216 1NM0219 1NM0427 1NM0217B 1NM0220B 1NM0258 SET AT 1300 PSIG 1NM0221A 1NM0250 1NM0222 1NM0240 1NM0241 1NM0262

WL D-2 MCFD-1565-01.00 CONT. FLOOR SUMP A

RMWST NM J-9 MCFD-1572-01.00

CONV. SAMPLING SYSTEM CT L-3 MCFD-1582-01.00 1NM0269 FC OS

CONV. SAMPLING SYSTEM CT L-4 MCFD-1582-01.00 1NM0270 FC OS

CONV. SAMPLING SYSTEM CT L-5 MCFD-1582-01.00 1NM0271 FC OS

CONV. SAMPLING SYSTEM CT L-6 MCFD-1582-01.00 1NM0272 FC OS

STEAM GENERATOR BLOWDOWN SAMPLE HX. 01 KC H-5 MCFD-1573-02.01 1A

STEAM GENERATOR BLOWDOWN SAMPLE HX. 02 KC E-5 MCFD-1573-02.01 1B

STEAM GENERATOR BLOWDOWN SAMPLE HX. 03 KC C-5 MCFD-1573-02.01 1C

STEAM GENERATOR BLOWDOWN SAMPLE HX. 04 KC C-10 MCFD-1573-02.01 1D

1NM0447 1NM0274 FC OS 1NM0448 1NM0275 FC OS 1NM0449 1NM0276 FC OS 1NM0450 1NM0277 FC OS

1NM0244 VS 1NM0194 VS NOTE 1 1NM0398 1NM0401 NOTE 1 1NM0402 1NM0399 NOTE 1 1NM0403 1NM0400 NOTE 1

WEFT SUMP NM B-9 MCFD-1572-02.00

PRIMARY SYSTEM SAMPLE SINK

STEAM GEN. BLOWDOWN TANK BB F-8 MCFD-1580-01.01

GROUNDWATER DRAINAGE SUMP A WZ H-5 MCFD-1581-01.00

1NM0278 1NM0279 1NM0246 1NM0245 1NM0409 RADIATION MONITOR 1EMF34 1NM0268 SET AT 150 PSIG 1NM0267 FC OS 1NM0488 1NM0227 1NM0226

MAKEUP DEMIN. WATER STORAGE TK. YM F-5 MCFD-1601-02.05

1NM0813 1NM0224 VS MAKEUP DEMIN. WATER STORAGE TANK YM F-4 MCFD-1601-02.05

PRIMARY CHEMISTRY AUTOMATION SYSTEM NM D-5 MCFD-1572-01.00

SAMPLE ROOM SINK WM 01

FDT SUMP A WM J-1 MCFD-1565-05.00

NOTE(S)

1. SHIELDED VALVE BAFFLE.
2. THIS SECTION OF PIPING IS NOT ACTUALLY ASME 3, CLASS 2. IT HAS BEEN EVALUATED AND FOUND ACCEPTABLE. (NSM MG-11711 AND MG-11287)
3. THIS PIPE WAS INSTALLED AS CLASS F AND WILL BE RECLASSIFIED AS CLASS B UNDER THE ASME SECTION XI RULES.
4. THE ISI EXEMPT BOUNDARIES SHOWN ON THIS DRAWING ARE EXEMPTED BECAUSE THEY SERVE NO SAFETY FUNCTION AS DETERMINED BY SITE ENGINEERING.

INSPECTION CRITERIA

COMPONENT	ZONE NUMBER	TYPE OF TEST	PLAN ADDENDUM NO	RI SEGMENT NO
CLASS B SYSTEM	1BB-098L-B	LEAKAGE	N/A	N/A
CLASS B SYSTEM	1SM-006L-B	LEAKAGE	N/A	N/A

DESIGN PARAMETERS

LINE LISTING	PIPE SPEC.	PRESSURE	TEMPERATURE	CLASS	MATERIAL
BB09	PS 151.4	10 PSIG	125 F	E	SS
CT07	TS 2701.1	1185 PSIG	200 F	H	ST
NM02	TS 2701.1	2485 PSIG	670 F	E	ST
NM20	PS 1501.2	1185 PSIG	567 F	B	SS
		1385 PSIG	250 F		
NM21	TS 2701.1	1185 PSIG	567 F	E	ST
NM22	TS 2701.1	150 PSIG	125 F	E	ST
NM23	TS 2701.1	150 PSIG	120 F	G	ST
NM24	TS 2701.1	50 PSIG	125 F	E	ST
NM34	PS 151.4	150 PSIG	125 F	E	SS
NM43	TS 2701.1	1185 PSIG	200 F	E	ST
NM44	PS 1501.4	1185 PSIG	200 F	E	SS
WL09	PS 151.4	50 PSIG	200 F	E	SS
WL11	PS 151.4	50 PSIG	200 F	E	SS
WM01	PS 151.4	50 PSIG	200 F	E	SS
YM30	TS 2701.1	150 PSIG	120 F	G	ST

LEGEND

- ISI CLASS 1
- ISI CLASS 2
- ISI CLASS 3
- ISI EXEMPT
- ZONE BOUNDARY

THIS DRAWING IS FOR INSERVICE INSPECTION ONLY AND SHALL NOT BE USED FOR OTHER PURPOSES SUCH AS MAINTENANCE, MODIFICATION, OR REPAIRS. THIS DRAWING SHALL BE REVISED WHEN AS-BUILT CHANGES AFFECT THE INSERVICE INSPECTION BOUNDARIES AND DETAILS OF THE COMPONENTS/SYSTEMS SHOWN.

NO.	REVISIONS	DRN	DATE	CHKD	DATE	APPR	DATE	CIVIL	ELEC.	MECH
ORIG	RELEASED FOR ISI USE ONLY	TDM	5-8-01	JMB	5-7-01	RKR	5-9-01	WAIVED		

INSPECTED

QA CONDITION 1,2 AND 4

DUKE POWER COMPANY

MCGUIRE NUCLEAR STATION UNIT 1

ASME SECTION XI

INSERVICE INSPECTION PRESSURE TEST BOUNDARY OF NUCLEAR SAMPLING SYSTEM (NM)

DESIGNER	TIM MYERS	DATE 5-8-01	INSP.	WAIVED	DATE —
DRAWN	TIM MYERS	DATE 5-8-01	INSP.	WAIVED	DATE —
CHECKED	JIM BOUGHMAN	DATE 5-7-01	APPR.	R. KEVIN RHYNE	DATE 5-9-01

SCALE — DWG.NO. MC-ISIL-1572-03.00 REV 0

REFERENCE FLOW DIAGRAM MCFD-1572-03.00 REV. 6

ERN: MC009AW4

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