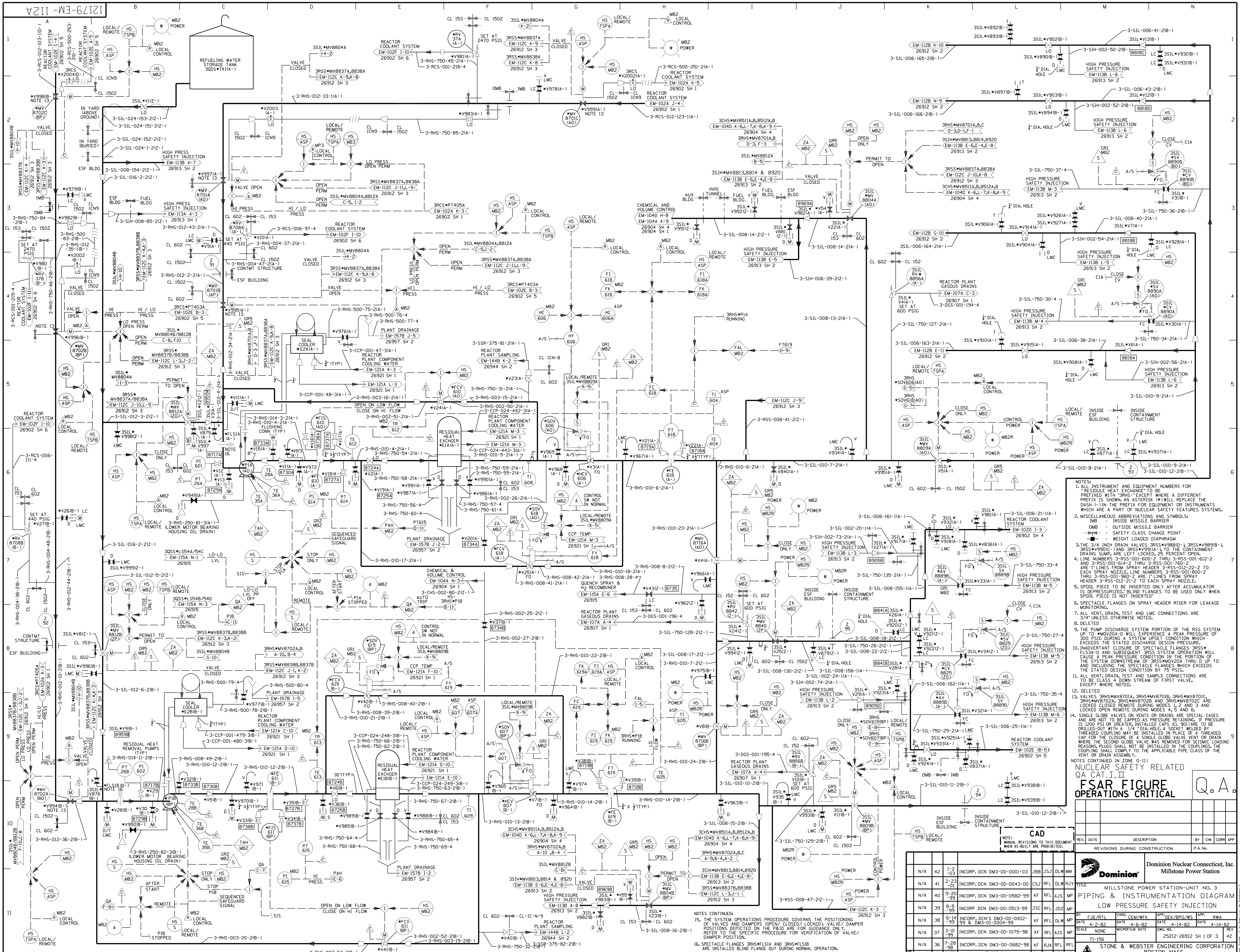
12179-EM-112A



NOTES:

1. ALL INSTRUMENT AND EQUIPMENT NUMBERS FOR "RESIDULE HEAT EXCHANGE" TO BE PREFIXED WITH "3RHS-" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN. AN ASTERISK (*) WILL REPLACE THE DASH (-) IN THE PREFIX FOR EQUIPMENT OR INSTRUMENTS WHICH ARE A PART OF NUCLEAR SAFETY FEATURES SYSTEMS.
2. MISCELLANEOUS ABBREVIATIONS AND SYMBOLS:
   - IMB - INSIDE MISSILE BARRIER
   - OMB - OUTSIDE MISSILE BARRIER
   - SAFETY CLASS CHANGE POINT
   - WEIGHT LOADED DIAPHRAGM
3. THE 3/4 INCH DRAIN VALVES 3RSS*V988(D-), 3RSS*V989(B-), 3RSS*V990(C-) AND 3RSS*V991(A-), TO THE CONTAINMENT DRAINS SUMP, ARE LEFT LOCKED, 25 PERCENT OPEN.
4. LINE NUMBERS 3-RSS-001-600-2 THRU 3-RSS-001-612-2 AND 3-RSS-001-614-2 THRU 3-RSS-001-760-2 ARE 1" LINES FROM SPRAY HEADER 3-RSS-012-22-2 TO EACH SPRAY NOZZLE. LINE NUMBERS 3-RSS-001-800-2 THRU 3-RSS-001-960-2 ARE 1" LINES FROM SPRAY HEADER 3-RSS-012-21-2 TO EACH SPRAY NOZZLE.
5. SPOOL PIECE TO BE INSERTED ONLY AFTER ACCUMULATOR IS DEPRESSURIZED." BLIND FLANGES TO BE USED ONLY WHEN SPOOL PIECE IS NOT INSERTED"
6. SPECTACLE FLANGES ON SPRAY HEADER RISER FOR LEAKAGE MONITORING.
7. ALL VENT, DRAIN, TEST AND LMC CONNECTIONS ARE 3/4" UNLESS OTHERWISE NOTED.
8. DELETED
9. THE PUMP DISCHARGE SYSTEM PORTION OF THE RSS SYSTEM UP TO *MOV20A-D WILL EXPERIENCE A PEAK PRESSURE OF 300 PSIG DURING A SYSTEM UPSET CONDITION WHICH EXCEEDS THE STATED DISCHARGE DESIGN PRESSURE.
10. INADVERTANT CLOSURE OF SPECTACLE FLANGES 3RSS* FLS3A-D AND SUBSEQUENT 3RSS SYSTEM OPERATION WILL CAUSE A PEAK PRESSURE CONDITION IN THE PORTION OF THE SYSTEM DOWNSTREAM OF 3RSS*MOV20A THRU D UP TO AND INCLUDING THE SPECTACLE FLANGES WHICH EXCEEDS THE STATED DESIGN CONDITION BY 75 PSIG.
11. ALL VENT, DRAIN, TEST AND SAMPLE CONNECTIONS ARE TO BE CLASS 4 DOWN STREAM OF FIRST VALVE, EXCEPT WHERE NOTED.
12. DELETED
13. VALVES 3RHS*MV8701A, 3RHS*MV8701B, 3RHS*MV8701C, 3RHS*MV8702A, 3RHS*MV8702B AND 3RHS*MV8702C ARE LOCKED CLOSED REMOTE DURING MODES 1, 2 AND 3 AND LOCKED OPEN REMOTE DURING MODES 4, 5 AND 6.
14. SINGLE GLOBE VALVES ON VENTS OR DRAINS ARE SPECIAL CASES AND ARE NOT TO BE CAPPED AS PRESSURE RETAINING. IF PRESSURE IS 1200 PSI OR GREATER, INSTALLED CAPS (CL 901) ARE TO BE DRILLED-OUT WITH A 1/4 " DIA. HOLE. A SOCKET WELDED BY THREADED COUPLING MAY BE INSTALLED IN PLACE OF A THREADED CAP FOR THE CLOSURE OF A SINGLE GLOBE VALVE VENT OR DRAIN WHERE THE SECOND GLOBE VALVE WAS REMOVED FOR SEISMIC LOADING REASONS. PLUGS SHALL NOT BE INSTALLED IN THE COUPLINGS. THE COUPLING SHALL COMPLY TO THE APPLICABLE PIPE CLASS OF THE VENT OR DRAIN ASSEMBLY.

NOTES CONTINUED IN ZONE (I-11)

NOTES CONTINUED:

15. THE SYSTEM OPERATIONS PROCEDURE GOVERNS THE POSITIONING OF VALVES AND DAMPERS (OPEN/ CLOSED/ LOCKED), VALVE/ DAMPER POSITIONS DEPICTED ON THE P&ID ARE FOR GUIDANCE ONLY. REFER TO THE SPECIFIC PROCEDURE FOR VERIFICATION OF VALVE/ DAMPER POSITION.
16. SPECTACLE FLANGES 3RHS*FLSIA AND 3RHS*FLSIB ARE INSTALLED BLIND FLANGE OUT DURING NORMAL OPERATION.

NUCLEAR SAFETY RELATED
QA CAT.I,II

FSAR FIGURE
OPERATIONS CRITICAL

Q.A.

CAD
NOTE: MANUAL REVISIONS TO THIS DOCUMENT WHEN AS-BUILT ARE PROHIBITED.

MF ✓	P.A.*	NO.	DATE	REVISIONS	BY	CHK.	CORR	APP.
	N/A	42	1-2-03	INCORP. DCN DM3-00-0001-03	JBB	JSJ	DLW	MM
	N/A	41	2-23-01	INCORP. DCN DM3-00-0043-00	CSJ	RFL	DLW	RJY
	N/A	40	9-20-99	INCORP. DCN DM3-00-0582-99	KF	RFL	AJS	MP
	N/A	39	8-5-99	INCORP DCN DM3-00-0513-99	JSC	RFL	JDZ	MP
	N/A	38	6-14-99	INCORP. DCN'S DM3-00-0002-99 & DM3-01-0004-99	KF	RFL	DLW	MP
	N/A	37	3-10-99	INCORP. DCN DM3-00-1075-98	KF	RFL	AJS	MP
	N/A	36	7-28-98	INCORP. DCN DM3-00-0682-98	KF	RJK	RFL	RFL

REV.	DATE	DESCRIPTION	BY	CHK	CORR	APP
		REVISIONS DURING CONSTRUCTION	P.A. No.			

Dominion Nuclear Connecticut, Inc.
Millstone Power Station

TITLE
MILLSTONE POWER STATION-UNIT NO. 3
PIPING & INSTRUMENTATION DIAGRAM
LOW PRESSURE SAFETY INJECTION

BY FJE/RTL	CHKD. CEM/WFK	APP. DEK/BPG/WS	APP. RWA
DATE 4-2-82	DATE 4-6-82	DATE 4-14-82	DATE 4-14-82
SCALE NONE	MICROFILM DATE	DWG. NO. 25212-26912 SH 1 OF 3	REV 42
71-156			

STONE & WEBSTER ENGINEERING CORPORATION
BOSTON, MASS.

RESP. ENGR: W.SHERMAN/F.FORTINI
DESN. ENGR: C.E.MIDDENDORF

S&W DWG. NO.12179-EM-112A