REVISIONS

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DRAWN BY: JLB
DATE: 1-26-07
PREPARED BY: MLR
DATE: 1-26-07
REVIEWED BY: SRM
DATE: 1-29-07

D5 ENG 1 HT EXPANSION TANK

D5 ENG 2 HT EXPANSION TANK

D5 ENG 1 RADIATOR

D5 ENG 2 RADIATOR

D5 ENG 1 RADIATOR FANS

D5 ENG 2 RADIATOR FANS

21 D5 HT/LT CLNT MAKEUP TNK (NON-SR)

21 D5 HT/LT CLNT MAKEUP PMP (NON-SR)

DEMINERALIZED MAKEUP WATER LR-39241

D5 ENG 1 L-O PREHTG HT EXGR

D5 ENG 2 L-O PREHTG HT EXGR

D5 ENG 1 HT CLNT PREHTR

D5 ENG 2 HT CLNT PREHTR

D5 ENG 1 HT PREHTR CIRCULATING PUMP

D5 ENG 2 HT PREHTR CIRCULATING PUMP

AUXILIARIES DESK 1

AUXILIARIES DESK 2

D5 ENGINE 01 CCW

D5 ENGINE 02 CW

D5 DIESEL GENERATOR

TURBOCHARGER UNIT

AIR COMPRESSOR

JACKET AND CYLINDER HEAD

SIDE "A"

SIDE "B"

D5 ENG 1 ENGINE DRIVEN HT PUMP

D5 ENG 2 ENGINE DRIVEN HT PUMP

THERMOSTATIC BYPASS VALVE

OUTLINE LIMIT OF SACM SUPPLY MANUFACTURERS BOUNDARY

6" ENGINE RECIRCULATION LINE

1" DRAIN & FILL VALVE (LOW POINT CONN.)

"Y" STRAINER

TO FLOOR DRAIN

ENGINE BOUNDARY

NOTES:

NUCLEAR SAFETY RELATED ITEMS ARE SHOWN ON THIS DRAWING.

LR - LEGEND

- IN SCOPE FOR LR PER 10 CFR 54.4(a)(1) 10 CFR 54.4(a)(3)
- IN SCOPE FOR LR PER 10 CFR 54.4(a)(2)
- OUT OF SCOPE
- XX/XX DENOTES SYSTEM BOUNDARY BREAK

LR - SYSTEMS

DE - WATER TREATMENT
DG - DIESEL GENERATOR & SUPPORT SYSTEMS

REFER TO SPECS:

HIAW - 02400-66	(ERECTION)
HIAW - 02400-79	(SUPPORTS)
HIAW - 02400-80	(MATERIAL)
HIAW - 02400-81	(VALVES)

LEGEND:

- ◈ DENOTES VALVES AND INSTRUMENTS FURNISHED WITH EQUIPMENT BY SACM PER HIAW-02610. (MANUFACTURER STANDARDS.
- (A+D) DENOTES ANALOG & DIGITAL COMPUTER INPUT.
- ---------- DENOTES SACM MANUFACTURERS STANDARDS.
- SR DENOTES SAFETY RELATED ASME III
- NON-SR DENOTES NON-SAFETY RELATED ANSI B31.1
- -·-·-·- INSTRUMENTATION BOUNDED BY AND ENCLOSED BY THIS LINE REPRESENTS SACM SUPPLIED INSTRUMENTATION.

REFERENCE NF-118242 REV. B

This map / document is a tool to assist employees in the performance of their jobs. Your personal safety is provided for by using safety practices, procedures and equipment as described in safety training programs, manuals and SPARs.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota. J.MACKEY — MINN. PENDING
Date 3/7/90 Reg. No. CA. 25495

D-098

LICENSE RENEWAL BOUNDARY DWG
FLOW DIAGRAM UNIT 2
HT WATER COOLING
DIESEL GENERATOR D5

NORTHERN STATES POWER COMPANY
Xcel Energy
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
RED WING, MINNESOTA

SCALE: NONE REV Ø

LR-118242

LR-118242.DGN MSP GENERATION CAD

$$USERNAME$$
$$$$$$$SYTIME$$$$$$$$$$$SYDATE$$$$$$
$$$$$$$$$DESIGNFILE$$$$$$$$$

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