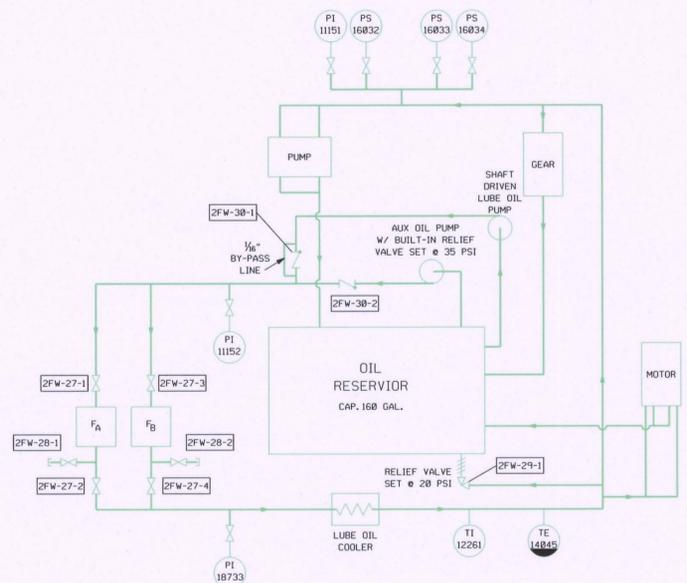
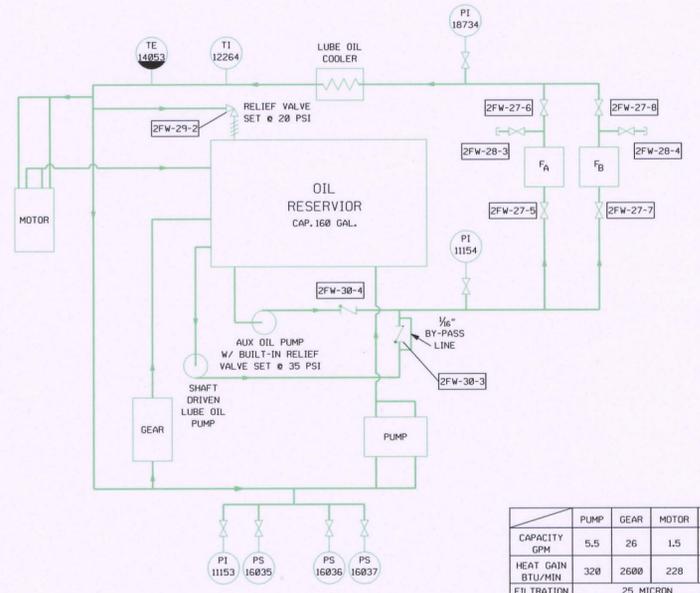


REVISIONS	
0	DRAWN BY: JLB DATE: 3-5-07 PREPARED BY: WDR DATE: 3-5-07 REVIEWED BY: SRM DATE: 3-5-07



21 FEEDWATER PUMP

FUNCTION AND INITIAL SETTING (SWITCHES ADJUSTABLE)	CONTACTS	TYPE	21 PUMP	22 PUMP
PERMITS START OF DRIVER ON PRESSURE RISE TO (8 PSI)	CLOSE ON RISE	MERCOID TYPE DA-34-103	PS-16833	PS-16836
STOPS DRIVER ON PRESSURE DROP TO (6 PSI)	CLOSE ON DROP	MERCOID TYPE DA-34-127	PS-16834	PS-16837
STARTS AUX. OIL PUMP ON PRESSURE DROP TO (8 PSI) OPENS AT 25 PSI TO STOP AUX. OIL PUMP	CLOSE ON DROP	MERCOID TYPE DA-34-127	PS-16832	PS-16835



22 FEEDWATER PUMP

	PUMP	GEAR	MOTOR	TOTAL
CAPACITY GPM	5.5	26	1.5	33
HEAT GAIN BTU/MIN	320	2600	228	3128
FILTRATION	25 MICRON			
GRADE	150-250 SSU AT 10MPF			
PRESS. PSI	10-15	5-20	10-15	

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
⬡	DENOTES SYSTEM BOUNDARY BREAK

LR - SYSTEM
FW - FEEDWATER

D-019

REFERENCE DWG NF-39223-1 REV. A

DATE	SIGNIFICANT NO.	8630	400	2	4410	1	7400
DRAWN BY:	ORCAIP	1	2	3	4	5	6
PREPARED BY:							
REVIEWED BY:							
PLM:							

LICENSE RENEWAL BOUNDARY MDWG
 FEEDWATER PUMP LUBE OIL
 FLOW SYSTEM - UNIT # 1

NORTHERN STATES POWER COMPANY
 Xcel Energy
 PRAIRIE ISLAND NUCLEAR GENERATING PLANT
 ROCHESTER, MINNESOTA
 SCALE: rev 0
 LR-39223-1