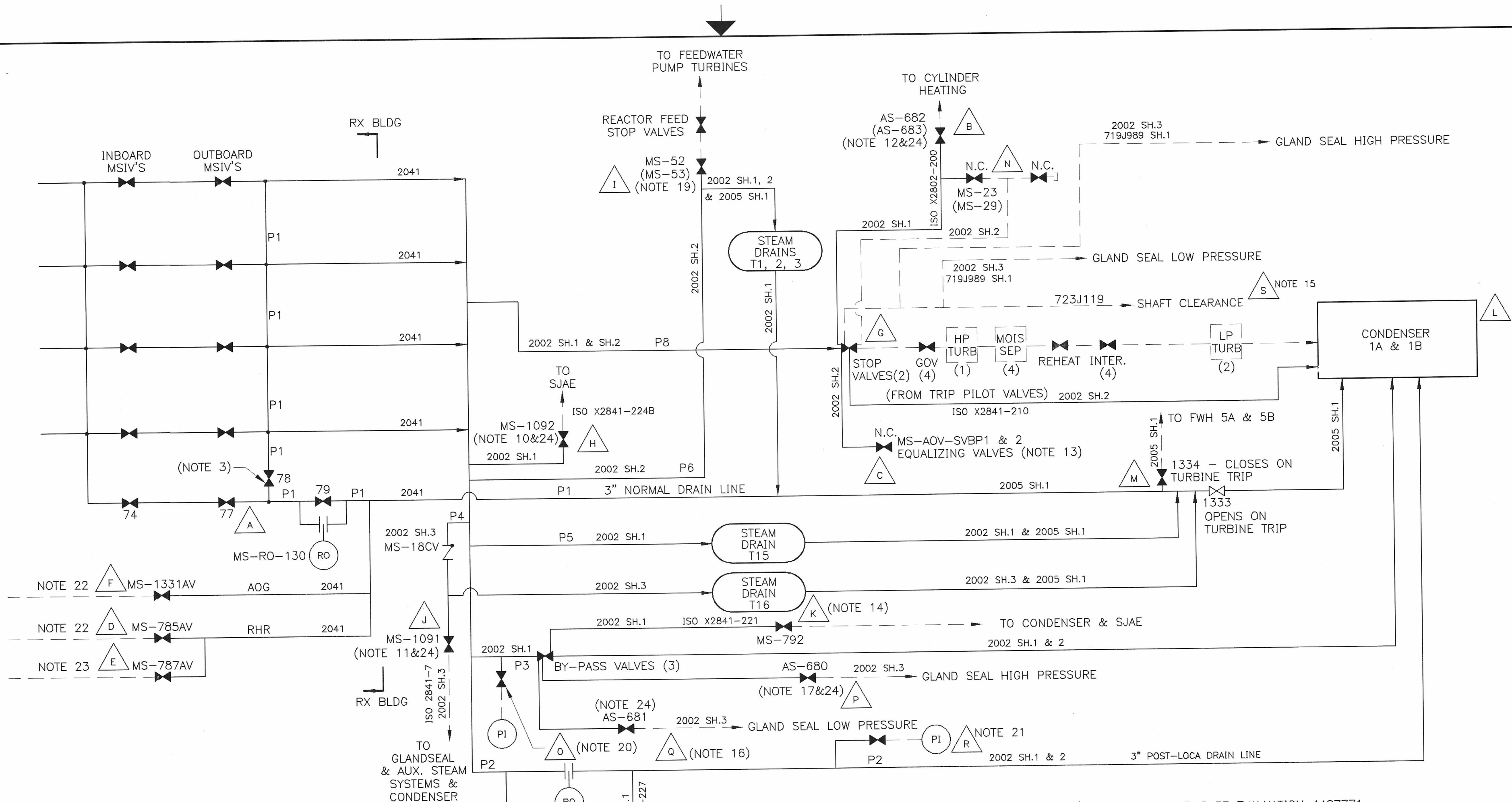




NOTES:

- SOLID LINE DEPICTS THE LEAKAGE PATH AND PRESSURE BOUNDARY FROM THE OUTBOARD MSIV's.
- DASHED LINE IS NOT A LEAKAGE PATH (NOT IN SCOPE).
- MAY BE OPEN OR CLOSED POST-LOCA. BOTH ARE ACCEPTABLE.
- POST-LOCA VALVE MANIPULATIONS ARE PER PROCEDURE 5.2 FUEL
- NOT ALL LINES SHOWN (e.g. INSTRUMENT AND SENSING LINES). VALVE ON THESE LINES NORMALLY CLOSED SEE NEDC 00-029 TABLE 2).
- FLOW DRAWING NUMBERS SHOWN ON LINE e.g.: 2041
- POTENTIAL LEAKAGE PATHS SHOWN WITH A "P" DESIGNATION, EXAMPLE: P1.
- BOUNDARY CONDITIONS SHOWN WITH A LETTER IN A TRIANGLE EXAMPLE: $\triangle A$.
- 2" NORMALLY CLOSED, OPEN POST-LOCA. (3 VALVES)
- ADDED 2" VALVE TO CLOSE POST-LOCA. (1 VALVE)
- ADDED 5" VALVE TO CLOSE POST-LOCA. (1 VALVE)

- ADDED 1 1/2" VALVES TO CLOSE POST-LOCA. (2 VALVES)
- 4" EQUALIZING VALVES NORMALLY CLOSED.
- 2" VALVE TO CLOSE POST-LOCA. (1 VALVE)
- INSTALL AND MANIPULATE SHAFT ADJUSTMENT SYSTEM POST-LOCA.
- ADDED 1 1/4" VALVE TO CLOSE POST-LOCA. (1 VALVE)
- ADDED 4" VALVE TO CLOSE POST-LOCA. (1 VALVE)
- VALVES SHOWN IN POST LOCA POSITION.

- 4" VALVES TO CLOSE POST-LOCA. (2 VALVES)

- REF. PART EVALUATION 4407771

- CLOSE ROOT VALVES POST LOCA (3 VALVES)
3/4" VALVE MS-158
3/4" VALVE MS-159
3/4" VALVE MS-160

- CLOSE ROOT VALVE POST LOCA
3/4" VALVE MS-180 (1 VALVE)

- 1" VALVE TO CLOSE POST-LOCA (2 VALVES)

- 1" VALVE MS-787AV IS NORMALLY CLOSED (1 VALVE)

- CED 6007261 INSTALLED THE FOLLOWING VALVES
AS-680 AS-682 MS-1091
AS-681 AS-683 MS-1092

REVISIONS BY N.P.P.D.					
NO.	REVISIONS	DFT	CKD	APP	DATE
N01	CED 6007261 (DCN 03-0983)	RGA	DLR	KG	7/15/03
N02	NEDC 00-029 (DCN 03-0765)	PAM	DJF	KG	3-1-04
N03	PE 4407771 (DCN 04-2903)	KPB	DJF	KG	7-29-05

SIGNIFICANT NUMBER	1	2	3	4	5	6
GROUP						
LEAKAGE PATHS FROM OUTBOARD MSIV's COOPER NUCLEAR STATION						

DRAWN RA/KJD	DATE 10/16/02
CHECKED PKA FOR RLY	DATE 10-28-02
APPROVED TPM FOR TDS	DATE 3-6-03
FILMED	
CNS-MS-43	
N03	

NON CONTROLLED PRINT

MAR 20 2007

N.P.P.D.. RIMS

AS BUILT
452244766

CADD DRAWING

DO NOT REVISE MANUALLY

CALC NEDC 00-029

Nebraska Public Power District

CADD FILE: C0043212