

REVISIONS

0	DRAWN BY: JLB DATE: 3-5-07 PREPARED BY: WJO DATE: 3-5-07 REVIEWED BY: SRM DATE: 3-5-07
1	ADDED (6)(3) LINES  DRAWN BY: JLB DATE: 9-7-07 PREPARED BY: WJI DATE: 9-7-07 REVIEWED BY: SRM DATE: 9-14-07

- ORIFICE BLOCK
- VALVE (NORMALLY OPEN)
- VALVE (NORMALLY CLOSED)
- MOTOR OPERATED VALVE
- RELIEF VALVE
- SWING CHECK VALVE
- PNEUMATICALLY OPERATED VALVE
- SOLENOID OPERATED VALVE
- FIXED ORIFICE
- FLOW ORIFICE WITH TEST CONN'S
- FLOW NOZZLE WITH TEST CONN'S
- STEAM STRAINER
- TRAP
- GAUGE CONNECTION
- TEST GAUGE CONN
- PURCHASER'S PIPE CONNECTION
- PURCHASER'S PIPING
- AIR LINE
- PRESSURE REDUCING VALVE
- CONTROL PILOT
- PRESSURE SWITCH
- TRIP PILOT VALVE
- PRESSURE TRANSMITTER

VALVES IN GLAND STEAM SEAL SYSTEM (BY WESTINGHOUSE)		
ITEM	NO. VALVES	DESCRIPTION
A	2	STEAM SEAL SUPPLY SHUT-OFF VALVES
B	1	STEAM SEAL SUPPLY BY-PASS VALVES
C	2	SPILLOVER SHUT-OFF VALVES
D	1	SPILLOVER BY-PASS VALVES
E	1	RELIEF VALVE
G	1	SAFETY HEAD

- TRANSUCER
- PRESSURE RECEIVER

NOTES

- FOR ENCIRCLED NUMBERS (2) OR (20) SEE TURBINE OUTLINE SUPPLEMENT (PURCHASER'S PIPE CONNECTIONS)
- REFER TO GLAND CONDENSER OUTLINE FOR LOCATION OF CONNECTIONS ON GLAND CONDENSER
- FOR OPERATING PRESSURES TEMPERATURES & QUANTITIES OF STEAM FLOW AT PURCHASER'S CONNECTIONS IN GLAND STEAM SEAL SYSTEM. SEE TURBINE OUTLINE SUPPLEMENT PURCHASER'S PIPE CONNECTIONS DATA SHEET
- REFER TO DRAIN VALVE (PNEU OPER) DWG 622 C 289

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 - SYSTEMS  
TB - TURBINE AND SUPPORT SYSTEMS  
WESTINGHOUSE ELECTRIC CORP.  
VENDOR No. 719J856

REFERENCE XH-1002-43 REV. D

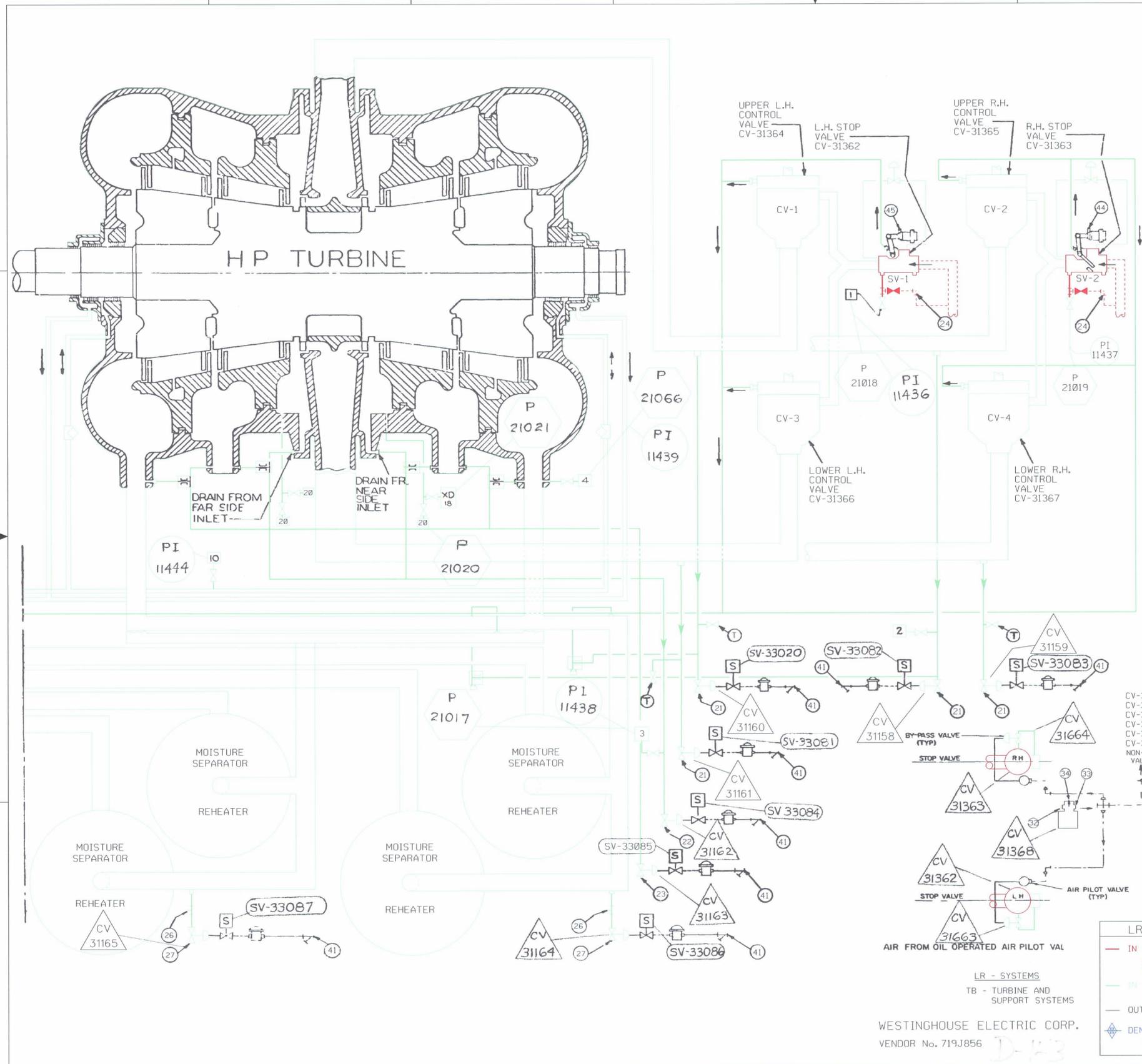
This map / document is a tool to assist employees in the performance of their jobs. Your personal safety is provided for by using safety practices, procedures and equipment as described in safety training programs, manuals and SPAR's.

OWN	DATE	SIGNIFICANT NO.	8630	2	M430	1
CHECKED		GROUP	1	2	3	4
PROJECT NO.						
APP'D & CERT.						
FILED						

LICENSE RENEWAL BOUNDARY DWG  
STEAM DRAIN & GLAND  
FLOW DIAGRAM

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

SCALE NONE REV 1  
LR-XH-1002-43



1 2 3 4 5 6 7 8

A B C D

UPPER L.H. CONTROL VALVE CV-31364 L.H. STOP VALVE CV-31362 UPPER R.H. CONTROL VALVE CV-31365 R.H. STOP VALVE CV-31363

CV-1 CV-2 CV-3 CV-4

PI 11437 PI 21018 PI 11436 PI 21019

LOWER L.H. CONTROL VALVE CV-31366 LOWER R.H. CONTROL VALVE CV-31367

P 21066 PI 11439 P 21021 P 21020 P 21017 P1 11438

MOISTURE SEPARATOR REHEATER

CV 31165 SV-33087

CV 31164 SV-33086

CV 31163 SV-33085

CV 31162 SV-33084

CV 31161 SV-33083

CV 31158 SV-33082

CV 31159 SV-33081

CV 31159 SV-33083

CV 31664

CV 31363

CV 31362

CV 31368

CV 31663

STOP VALVE

AIR FROM OIL OPERATED AIR PILOT VAL

STOP VALVE

AIR PILOT VALVE (TYP)

CV-31110  
CV-31111  
CV-31143  
CV-31144  
CV-31145  
CV-31146  
NON-RET VALVE

PI 11444 P 21020 XD 18

DRAIN FROM FAR SIDE INLET DRAIN FR. NEAR SIDE INLET