



Interoffice Communication

To : Distribution
From : Dave Mahler
Date : October 18, 1983
Subject : 1983 COMPREHENSIVE VCM LEAK SURVEY

Attached are the results of the 1983 Comprehensive VCM Leak Survey. A total of sixty-three (63) leaks were found. Sixty-two of these leaks have been repaired to date; the one remaining leak (903 compressor seal water valve) will be repaired when a spare valve is received at the Plant.

Dave Mahler

Dave Mahler
Environmental Engineer

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Attachments

c: JF, CRM, PEM, CRS, AHS, DJM, JLH, RAF, VEM, VLT

1983 COMPREHENSIVE VCM LEAK SURVEY

LEAK SUMMARY

<u>Leak No.</u>	<u>HNU Reading, PPM</u>	<u>Location</u>	<u>Leak Source</u>
1	50	New module; West RVCM Receiver high level capacitance probe	Probe Fitting
2	50	New module; East RVCM Receiver high level capacitance probe	Probe Fitting
3	200	New module; 903 compressor seal water control valve	Valve Stem
4	200	New module; D-741 reactor evacuation valve	Valve Stem
5	80	New module; D-741 reactor automated inert vent valve	Valve Stem
6	100	New module; D-741 reactor atmospheric vent	Vent Pipe
7	500	New module; D-742 reactor recovery valve	Valve Stem
8	50	New module; D-742 reactor condenser pressure guage	Pipe Fitting
9	150	New module; D-742 reactor atmospheric vent	Vent Pipe
10	800	New module; D-743 reactor condenser pressure gauge	Pipe Fitting
11	100	Tank Farm; South VCM transfer pump pressure gauge isolation valve	Valve Stem
12	1,000	Tank Farm; North VCM transfer pump piping	Valve Packing
13	500	Tank Farm; West bullet VCM pump seal fluid sight glass	Pipe Fitting
14	800	Tank Farm; West bullet float level gauge	Flange
15	300	Tank Farm; No. 3 unloading spot	Unloading Hose

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16	500	Tank Farm; No. 9 unloading spot	Unloading Hose
17	70	Tank Farm; No. 9 unloading spot	Unloading Hose
18	600	Tank Farm; No. 2 unloading spot	Unloading Hose
19	50	Tank Farm; No. 3 unloading spot	Flexline Flange
20	500	Tank Farm; No. 3 unloading spot	Unloading Hose
21	100	Tank Farm; No. 7 unloading spot	Unloading Hose
22	1,000	Tank Farm; No. 7 unloading spot	Unplugged bleeder
23	500	Tank Farm; No. 6 unloading spot	Unloading hose
24	100	Tank Farm; No. 6 unloading spot	Unloading hose
25	500	Tank Farm; No. 5 unloading compressor	Head gasket, bottom gasket, oil filler hole, suction piping gasket
26	500	Tank Farm; No. 4 unloading compressor	Head gasket
27	1,000	Tank Farm; No. 4 unloading compressor ERS piping	Tube fitting
28	1,000	Tank Farm; No. 4 unloading compressor ERS piping	Tube fitting
29	1,000	Tank Farm; No. 3 unloading compressor liquid k.o. pot	Pipe flange
30	50	Tank Farm; No. 3 unloading compressor	Head gasket

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31	1,000	Tank Farm; No. 3 unloading compressor pressure gauge bleeder	Pipe fitting
32	1,100	Tank Farm; No. 2 unloading compressor liquid k.o.pot	Bleeder plug
33	200	Tank Farm; No. 2 unloading compressor pressure gauge bleeder	Bleeder plug
34	100	Tank Farm; No. 2 unloading compressor suction line	Pipe flange
35	1,000	Tank Farm; No. 2 unloading compressor pressure gauge bleeder	Bleeder plug
36	500	Tank Farm; Liquid unload- ing line, west of compres- sors	Valve flange
37	900	Tank Farm; ERS k.o. pot level gauge	Pipe union
38	100	Tank Farm; ERS k.o. pot level gauge isolation valve	Pipe fitting
39	1,000	Tank Farm; Liquid unload- ing line, west of compres- sors	Check valve flange
40	500	Tank Farm; liquid unload- ing line, west of compres- sors	Check valve flange
41	150	Tank Farm; liquid unload- ing line pressure gauge, east of compressors	Pressure gauge fitting
42	500	Tank farm, vapor line, east of compressors	Valve flange
43	100	Old module; south RVC receiver recovery valve	Valve packing

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44	1,000	Old module; north FVCM filterpak pressure gauge	Pipe fitting
45	500	Old module; south FVCM filterpak pressure gauge	Pipe fitting
46	100	Old module; south FVCM filterpak pressure gauge	Pipe fitting
47	800	Old module; south FVCM filterpak suction piping	Pipe flange
48	1,000	Old module; D-400 Reactor atmospheric vent valve	Valve stem
49	100	Old module; D-400 Reactor inert vent isolation valve	Valve flange
50	1,000	Old module; D-400 Reactor inert vent automated valve	Valve stem
51	100	Old module; D-400 Reactor rinse water valve (top)	Valve stem
52	100	Old module; D-600 Reactor Lanape manway	O-Ring
53	1,000	Old module; D-600 Reactor vacuum manometer isolation valve	Tube fitting
54	200	Old module; D-600 Reactor vacuum manometer	Tube fitting
55	200	Old module; D-600 Reactor atmospheric vent valve	Valve stem
56	50	Old module; D-300 Reactor main dump valve	Valve stem
57	100	Old module; ERS south seal water separator level gauge	Valve stem
58	50	Old module; D-500 Reactor Lenape manway	O-ring

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59	100	Old module; D-700 Reactor chem wash valve (top of condenser)	Valve stem
60	100	Old module; D-700 Reactor automated inert vent valve	Valve stem
61	100	Old module; east recovery compressor (south seal)	Shaft seal
62	1,000	Old module; LRS k.o. scrubber water filter	Filter head
63	100	Old module; west RVCM transfer pump seal	Shaft seal