

ANNUAL VCM SURVEY
1988

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ANNUAL VCM SURVEY

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Part One

The New Module

** ### This component was bagged for the survey

LEAK #	COMPONENT TYPE	PPM	LOCATION
001	V(G)	300	Reactor 741, Shell level, East side evacuation valve stem
** 002	F(G)	300	Reactor 741, Condenser level, Northwest side tee to pressure gauge
003	F(G)	50	Reactor 741, Condenser level, Flange on small vent line
004	F(G)	1000	Reactor 741, Condenser level, South side of condenser, pressure transmitter fitting
** 005	F(G)	1000	Reactor 744, Condenser level, Flange for Chem Wash, Rinse nozzle closest to reactor
006	F(G)	1000	Reactor 745, Condenser level, Second vent valve, Flange on top
007	F(G)	350	Reactor 745, Condenser level, East side of reactor flange, Bolt #11
008	F(G)	100	Reactor 745, Shell level, Southeast side of reactor, Vacuum gau fitting
009	F(G)	70	Reactor 745, Shell level, Northwest side evacuation valve flang (along siderail)
010	V(L)	1000	Reactor 743, Bottom level, Second VCM valve
011	F(G)	150	West RVCM receiver, Top level, North side pressure gauge
012	F(L)	200	West RVCM receiver, Middle level, North side elbow in insulated line

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013	F(L)	20	FVCM receiver, Middle level, North side manway
** 014	V(L)	500	North FVCM filter, Supply line, Diaphragm valve
015	V/F(L)	20	RVCM charge piping, Supply side, Equilibrium valve between RVCM charge pumps
- A	V(L)		Zero
** 016	V(L)	20	Top of RVCM filter, Bleeder valve
-A	F(L)		Zero
** 017	V(L)	700	Top of RVCM filter, Bleeder valve
-A	V(L)		Zero
018	V(L)	40	RVCM charge line, just before tie in to FVCM piping, Valve 019 V/F(L) 50 N FVCM filter, Discharge valve
019	V/F(L)	50	North FVCM filter, Discharge valve
-A	F(L)		Zero
020	V/F(L)	50	Bottom of FVCM receiver, East side, Valve and/or flange
021	V(L)	1500	Bottom of FVCM receiver, Charge valve
022	V/F(L)	50	Bottom of FVCM receiver, West side, Valve and/or flange
** 023	F(G)	250	South seal water seperator, Top level Northeast side pressure gauge
-A	F(G)		Zero
** 024	F(G)	50	Recovery building, Second floor, East VCM condenser, Top pressure gaug Fitting
-A	F(G)		Zero
025	F(G)	20	North seal water seperater, Rupture disk
** 026	V(G)	100	South vacuum pump, Discharge valve
-A	V(G)		Zero
-B	V(G)		Zero
-C	F(G)		Zero
-D	F(G)		Zero
-E	F(G)		Zero
** 027	V(G)	150	West of south compressor, Equilibrium valve, CV-854
028	V(G)	200	Recovery building, Ground floor, Middle of the east side, North/south transfer lines along ceiling, Bleeder valve

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Part Two

The VCM Tank Farm

** ### This component was bagged for the survey

LEAK #	COMPONENT TYPE	PPM	LOCATION
100	V(G)	500	North VCM unload station, North of bridge, East side valve
101	V(L)	150	North VCM unload station, South of bridge, East side valve
102	F(L)	500	Middle north VCM unload station, South of bridge, VCM tank car connecting line
103	F(G)	500	Middle north VCM unload station, South of bridge, West side flange
104	F(L)	700	Middle south VCM unload station, East side, Plug on line south of VCM car
105	F(G)	50	Middle south VCM unload station, East side, Union on west side of VCM tank car
106	F(L)	70	Middle south VCM unload station, West side, North of bridge, Next to handrail, Flange
107	F(L)	50	South VCM unload station, East side North of bridge, Next to handrail, Flange below valve
108	F(G)	70	South VCM unload station, East side, Union on west side of VCM tank car
109	F(L)	500	South VCM unload station, East side, Union on south side of VCM tank car
110	V/F(L)	200	South VCM unload station, West side, North VCM railcar unloading line, Check valve

111	V(L)	200	South of VCM sphere, VCM transfer pum Recycle valve to VCM sphere
112	V(L)	50	Compressor shed, East pipe rack, Fourth vertical line from north, Horizontal valve, Stem
** 113	F(L)	50	Compressor shed, East pipe rack, Third vertical line from north, Flange to sensall control
** 114	V(L)	700	Compressor shed, East pipe rack, Second vertical line from north, Horizontal valve, Stem
-A	F(L)		Zero
-B	F(L)		Zero
-C	V(L)		Zero
-D	V(L)		Zero
** 115	F(L)	30	Compressor shed, First compressor from south, South flange
** 116	F(L)	100	Compressor shed, Second compressor from south, Pressure gauge fitting
117	V(G)	20	Compressor shed, West pipe rack, Fourth vertical line from north, Check valve
** 118	V(L)	750	Compressor shed, West pipe rack, Sixth vertical line from north, East vertical valve
119	F(G)	30	South of VCM sphere, Relief valve, Discharge flange
120	F(L)	100	South of VCM sphere, Middle of pipera Flange

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Part Three

The Old Module

** ### This component was bagged for the survey

LEAK #	COMPONENT TYPE	PPM	LOCATION
** 200	V(L)	70	North RVCM receiver, Bottom level, Valve stem under receiver
** 201	V(G)	200	South RVCM receiver, Top level, North side, Valve on receiver
202	F(L)	30	South RVCM receiver, Between levels, West side, Grade level connection, Fl
203	F(L)	700	FVCM receiver, Second level, North side, Pressure gauge plug
** 204	F(L)	1000	FVCM receiver, Ground level, Charge line flange
** 205	F(L)	100	North FVCM filter, South side, Pressure gauge connection
206	V(L)	100	RVCM filter, East end, Top side, Valve
207	V(L)	80	Reactor 500, Bottom level, Main dump valve
208	V/F(G)	150	Reactor 500, Shell level, Northeast side, Auto AMS injection valve
** 209	F(G)	500	Reactor 600, Shell level, North side, Vacuum gauge tubing
210	V/F(G)	100	Reactor 600, Shell level, Northeast side, Auto AMS injection valve
211	F(G)	50	Reactor 400, Condenser level, North side, Thermowell stuck in flang

212	V(G)	70	Reactor 400, Condenser level, West side, Main recovery valve
213	V/F(G)	100	Reactor 600, Shell level, West side, Secondary recovery valve
** 214	V(G)	100	Reactor 700, Shell level, Southeast side, Valve off of 12 inch flange
215	V(G)	500	Reactor 700, Condenser level, Southwest side, Secondary vent valve
216	F(G)	1000	Reactor 700, Condenser level, Southwest side, Rupture disk flange
** 217	F(G)	600	Reactor 700, Condenser level, Northwest side, Rupture disk flange
-A	F(G)		Zero
218	F(G)	200	Reactor 300, Shell level, Manway O-ring
219	V(G)	1000	Reactor 300, Condenser level, Chem wash/rinse valve
220	V(L)	500	Reactor 600, Ground level, Secondary VCM valve, Stem
221	V(L)	700	Reactor 700, Ground level, Main VCM charge valve, Stem

		FLANGE			VALVE			UNDETERMINED			SUBTOTAL			TOTAL
		20 ≤ X < 100	100 ≤ X < 1000	1000 ≤ X	20 ≤ X < 100	100 ≤ X < 1000	1000 ≤ X	20 ≤ X < 100	100 ≤ X < 1000	1000 ≤ X	Flange	Valve	Undetermined	
GAS	NEW MODULE	5	4	3	0	4	0	0	0	0	12	4	0	16
	VCM TANK FARM	3	1	0	1	1	0	0	0	0	4	2	0	6
	OLD MODULE	1	3	1	1	3	1	0	3	0	5	5	3	13
LIQUID	NEW MODULE	1	1	0	2	2	2	4	0	0	2	6	4	12
	VCM TANK FARM	4	5	0	1	4	0	0	1	0	9	5	1	15
	OLD MODULE	1	2	1	3	2	0	0	0	0	4	5	0	9
SUBTOTAL	GAS	9	8	4	2	8	1	0	3	0	21	11	3	35
	LIQUID	6	8	1	6	8	2	4	1	0	15	16	5	36
TOTAL		15	16	5	8	16	3	4	4	0	36	27	8	71

		FLANGE			VALVE			UNDETERMINED			SUBTOTAL			TOTAL
		20 ≤ X < 100	100 ≤ X < 1000	1000 ≤ X	20 ≤ X < 100	100 ≤ X < 1000	1000 ≤ X	20 ≤ X < 100	100 ≤ X < 1000	1000 ≤ X	Flange	Valve	Undetermined	
GAS	NEW MODULE	5	4	3	0	4	0	0	0	0	12	4	0	16
	VCM TANK FARM	3	1	0	1	1	0	0	0	0	4	2	0	6
	OLD MODULE	1	3	1	1	3	1	0	3	0	5	5	3	13
LIQUID	NEW MODULE	1	1	0	2	2	2	4	0	0	2	6	4	12
	VCM TANK FARM	4	5	0	1	4	0	0	1	0	9	5	1	15
	OLD MODULE	1	2	1	3	2	0	0	0	0	4	5	0	9
SUBTOTAL	GAS	9	8	4	2	8	1	0	3	0	21	11	3	35
	LIQUID	6	8	1	6	8	2	4	1	0	15	16	5	36
TOTAL		15	16	5	8	16	3	4	4	0	36	27	8	71

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Part One

The New Module

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LEAK #	COMPONENT TYPE	PPM	LOCATION
001	V(G)	300	Reactor 741, Shell level, East side evacuation valve stem
** 002	F(G)	300	Reactor 741, Condenser level, Northwest side tee to pressure gauge
003	F(G)	50	Reactor 741, Condenser level, Flange on small vent line
004	F(G)	1000	Reactor 741, Condenser level, South side of condenser, pressure transmitter fitting
** 005	F(G)	1000	Reactor 744, Condenser level, Flange for Chem Wash, Rinse nozzle closest to reactor
006	F(G)	1000	Reactor 745, Condenser level, Second vent valve, Flange on top
007	F(G)	350	Reactor 745, Condenser level, East side of reactor flange, Bolt #11
008	F(G)	100	Reactor 745, Shell level, Southeast side of reactor, Vacuum gauge fitting
009	F(G)	70	Reactor 745, Shell level, Northwest side evacuation valve flange (along siderail)
010	V(L)	1000	Reactor 743, Bottom level, Second VCM valve
011	F(G)	150	West RVCM receiver, Top level, North side pressure gauge
012	F(L)	200	West RVCM receiver, Middle level, North side elbow in insulated line

013	F(L)	20	FVCM receiver, Middle level, North side manway
** 014	V(L)	500	North FVCM filter, Supply line, Diaphragm valve
015	V/F(L)	20	RVCM charge piping, Supply side, Equilibrium valve between RVCM charge pumps
- A	V(L)		Zero
** 016	V(L)	20	Top of RVCM filter, Bleeder valve
-A	F(L)		Zero
** 017	V(L)	700	Top of RVCM filter, Bleeder valve
-A	V(L)		Zero
018	V(L)	40	RVCM charge line, just before tie in to FVCM piping, Valve 019 V/F(L) 50 North FVCM filter, Discharge valve
019	V/F(L)	50	North FVCM filter, Discharge valve
-A	F(L)		Zero
020	V/F(L)	50	Bottom of FVCM receiver, East side, Valve and/or flange
021	V(L)	1500	Bottom of FVCM receiver, Charge valve
022	V/F(L)	50	Bottom of FVCM receiver, West side, Valve and/or flange
** 023	F(G)	250	South seal water seperator, Top level, Northeast side pressure gauge
-A			Zero
** 024	F(G)	50	Recovery building, Second floor, East VCM condenser, Top pressure gauge, Fitting
-A	F(G)		Zero
025	F(G)	20	North seal water seperater, Rupture disk
** 026	V(G)	100	South vacuum pump, Discharge valve
-A	V(G)		Zero
-B	V(G)		Zero
-C	F(G)		Zero
-D	F(G)		Zero
-E	F(G)		Zero
** 027	V(G)	150	West of south compressor, Equilibrium valve, CV-854
028	V(G)	200	Recovery building, Ground floor, Middle of the east side, North/south transfer lines along ceiling, Bleeder valve

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Part Two

The VCM Tank Farm

** ### This component was bagged for the survey

LEAK #	COMPONENT TYPE	PPM	LOCATION
100	V(G)	500	North VCM unload station, North of bridge, East side valve
101	V(L)	150	North VCM unload station, South of bridge, East side valve
102	F(L)	500	Middle north VCM unload station, South of bridge, VCM tank car connecting line
103	F(G)	500	Middle north VCM unload station, South of bridge, West side flange
104	F(L)	700	Middle south VCM unload station, East side, Plug on line south of VCM tank car
105	F(G)	50	Middle south VCM unload station, East side, Union on west side of VCM tank car
106	F(L)	70	Middle south VCM unload station, West side, North of bridge, Next to handrail, Flange
107	F(L)	50	South VCM unload station, East side North of bridge, Next to handrail, Flange below valve
108	F(G)	70	South VCM unload station, East side, Union on west side of VCM tank car
109	F(L)	500	South VCM unload station, East side, Union on south side of VCM tank car
110	V/F(L)	200	South VCM unload station, West side, North VCM railcar unloading line, Check valve

111	V(L)	200	South of VCM sphere, VCM transfer pumps, Recycle valve to VCM sphere
112	V(L)	50	Compressor shed, East pipe rack, Fourth vertical line from north, Horizontal valve, Stem
** 113	F(L)	50	Compressor shed, East pipe rack, Third vertical line from north, Flange to sensall control
** 114	V(L)	700	Compressor shed, East pipe rack, Second vertical line from north, Horizontal valve, Stem
-A	F(L)		Zero
-B	F(L)		Zero
-C	V(L)		Zero
-D	V(L)		Zero
** 115	F(L)	30	Compressor shed, First compressor from south, South flange
** 116	F(L)	100	Compressor shed, Second compressor from south, Pressure gauge fitting
117	V(G)	20	Compressor shed, West pipe rack, Fourth vertical line from north, Check valve
** 118	V(L)	750	Compressor shed, West pipe rack, Sixth vertical line from north, East vertical valve
119	F(G)	30	South of VCM sphere, Relief valve, Discharge flange
120	F(L)	100	South of VCM sphere, Middle of piperack, Flange

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Part Three

The Old Module

** ### This component was bagged for the survey

LEAK #	COMPONENT TYPE	PPM	LOCATION
** 200	V(L)	70	North RVCM receiver, Bottom level, Valve stem under receiver
** 201	V(G)	200	South RVCM receiver, Top level, North side, Valve on receiver
202	F(L)	30	South RVCM receiver, Between levels, West side, Grade level connection, Flange
203	F(L)	700	FVCM receiver, Second level, North side, Pressure gauge plug
** 204	F(L)	1000	FVCM receiver, Ground level, Charge line flange
** 205	F(L)	100	North FVCM filter, South side, Pressure gauge connection
206	V(L)	100	RVCM filter, East end, Top side, Valve
207	V(L)	80	Reactor 500, Bottom level, Main dump valve
208	V/F(G)	150	Reactor 500, Shell level, Northeast side, Auto AMS injection valve
** 209	F(G)	500	Reactor 600, Shell level, North side, Vacuum gauge tubing
210	V/F(G)	100	Reactor 600, Shell level, Northeast side, Auto AMS injection valve
211	F(G)	50	Reactor 400, Condenser level, North side, Thermowell stuck in flange

212	V(G)	70	Reactor 400, Condenser level, West side, Main recovery valve
213	V/F(G)	100	Reactor 600, Shell level, West side, Secondary recovery valve
** 214	V(G)	100	Reactor 700, Shell level, Southeast side, Valve off of 12 inch flange
215	V(G)	500	Reactor 700, Condenser level, Southwest side, Secondary vent valve
216	F(G)	1000	Reactor 700, Condenser level, Southwest side, Rupture disk flange
** 217	F(G)	600	Reactor 700, Condenser level, Northwest side, Rupture disk flange
-A	F(G)		Zero
218	F(G)	200	Reactor 300, Shell level, Manway O-ring
219	V(G)	1000	Reactor 300, Condenser level, Chem wash/rinse valve
220	V(L)	500	Reactor 600, Ground level, Secondary VCM valve, Stem
221	V(L)	700	Reactor 700, Ground level, Main VCM charge valve, Stem

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Part Four

Summary

# of Leaks >1000	8
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# of Leaks >100 but <1000	28
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# of Leaks <100	34
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Total # of Leaks	70
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# of Leaks Bagged	21
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# of Zeros Bagged	16
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Total # of Components Bagged	37
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** ###	This component was bagged for the survey
0##	This component is in the new modual
1##	This component is in the VCM tank farm
2##	This component is in the old modual

ANNUAL VCM SURVEY

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Part One

The New Module

** ### This component was bagged for the survey

LEAK #	COMPONENT TYPE	PPM	LOCATION
001	V(G)	300	Reactor 741, Shell level, East side evacuation valve stem
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003	F(G)	50	Reactor 741, Condenser level, Flange on small vent line
004	F(G)	1000	Reactor 741, Condenser level, South side of condenser, pressure transmitter fitting
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006	F(G)	1000	Reactor 745, Condenser level, Second vent valve, Flange on top
007	F(G)	350	Reactor 745, Condenser level, East side of reactor flange, Bolt #11
008	F(G)	100	Reactor 745, Shell level, Southeast side of reactor, Vacuum gauge fitting
009	F(G)	70	Reactor 745, Shell level, Northwest side evacuation valve flange (along siderail)
010	V(L)	1000	Reactor 743, Bottom level, Second VCM valve
011	F(G)	150	West RVCM receiver, Top level, North side pressure gauge
012	F(L)	200	West RVCM receiver, Middle level, North side elbow in insulated line

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019	V/F(L)	50	North FVCM filter, Discharge valve
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020	V/F(L)	50	Bottom of FVCM receiver, East side, Valve and/or flange
021	V(L)	1500	Bottom of FVCM receiver, Charge valve
022	V/F(L)	50	Bottom of FVCM receiver, West side, Valve and/or flange
** 023	F(G)	250	South seal water seperator, Top level, Northeast side pressure gauge
-A			Zero
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-A	F(G)		Zero
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** 026	V(G)	100	South vacuum pump, Discharge valve
-A	V(G)		Zero
-B	V(G)		Zero
-C	F(G)		Zero
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** 027	V(G)	150	West of south compressor, Equilibrium valve, CV-854
028	V(G)	200	Recovery building, Ground floor, Middle of the east side, North/south transfer lines along ceiling, Bleeder valve

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Part Two

The VCM Tank Farm

** ### This component was bagged for the survey

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106	F(L)	70	Middle south VCM unload station, West side, North of bridge, Next to handrail, Flange
107	F(L)	50	South VCM unload station, East side North of bridge, Next to handrail, Flange below valve
108	F(G)	70	South VCM unload station, East side, Union on west side of VCM tank car
109	F(L)	500	South VCM unload station, East side, Union on south side of VCM tank car
110	V/F(L)	200	South VCM unload station, West side, North VCM railcar unloading line, Check valve

111	V(L)	200	South of VCM sphere, VCM transfer pumps, Recycle valve to VCM sphere
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** 113	F(L)	50	Compressor shed, East pipe rack, Third vertical line from north, Flange to sensall control
** 114	V(L)	700	Compressor shed, East pipe rack, Second vertical line from north, Horizontal valve, Stem
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** 115	F(L)	30	Compressor shed, First compressor from south, South flange
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117	V(B)	20	Compressor shed, West pipe rack, Fourth vertical line from north, Check valve
** 118	V(L)	750	Compressor shed, West pipe rack, Sixth vertical line from north, East vertical valve
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** 204	F(L)	1000	FVCM receiver, Ground level, Charge line flange
** 205	F(L)	100	North FVCM filter, South side, Pressure gauge connection
206	V(L)	100	RVCM filter, East end, Top side, Valve
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216	F(G)	1000	Reactor 700, Condenser level, Southwest side, Rupture disk flange
** 217	F(G)	600	Reactor 700, Condenser level, Northwest side, Rupture disk flange
-A	F(G)		Zero
218	F(G)	200	Reactor 300, Shell level, Manway O-ring
219	V(G)	1000	Reactor 300, Condenser level, Chem wash/rinse valve
220	V(L)	500	Reactor 600, Ground level, Secondary VCM valve, Stem
221	V(L)	700	Reactor 700, Ground level, Main VCM charge valve, Stem

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Part Four
Summary

# of Leaks >1000	8
# of Leaks >100 but <1000	28
# of Leaks <100	34
Total # of Leaks	70
# of Leaks Bagged	21
# of Zeros Bagged	16
Total # of Components Bagged	37

** ###	This component was bagged for the survey
0##	This component is in the new modual
1##	This component is in the VCM tank farm
2##	This component is in the old modual