United States
Environmental Protection
Agency

Office of Air Quality
Planning and Standards
Research Triangle Park NC 27711

EMB Report No. 80-OSP-1
June 1981

EPA

On-Shore Production of Crude Oil and Natural Gas

Fugitive Volatile Organic Compound Emission Sources

Emission Test Report Houston Oil and Minerals Co. Smith Point Plant Chambers County, Texas

DCN 81-222-018-04-39 EMB Report No. 80-OSP-1

EMISSION TEST REPORT

FUGITIVE VOC TESTING
AT
HOUSTON OIL AND MINERALS
SMITH POINT PLANT

Prepared by:

G. E. Harris
Radian Corporation
8501 Mo-Pac Boulevard
Austin, Texas 78759

Prepared for:

Winton Kelly
U. S. Environmental Protection Agency
ESED/EMB (MD-13)
Research Triangle Park, North Carolina 27711

EPA Contract No. 68-02-3542
Work Assignment No. 4

17 October 1981

CONTENTS

FIGURES

TABLES

SECTION 1

INTRODUCTION

This report presents the results of testing for fugitive VOC (Volatile Organic Compounds) emissions at the Houston Oil and Minerals gas plant near Smith Point, Texas. The testing was performed by Radian Corporation on October 6 through October 8, 1980. This work was funded and administered by the Emission Measurement Branch of the U.S. Environmental Protection Agency. The purpose of this testing was to develop data to be used in support of New Source Performance Standards for onshore production facilities.

The testing described in this report consisted of a screening survey using two fugitive emission detection methods, EPA Method 21 using portable analyzers and soap scoring. The objectives of this testing were to:

1) Determine leak frequency by each method, and

2) Collect comparative data on each method so that emission data from other sources could be used to support New Source Performance Standards.

The following sections present a summary of results, a description of the process configuration, and the testing methodology. A full listing of the data and other supplemental information are included in the appendices.

SECTION 2

SUMMARY OF RESULTS

This section presents a summary of the screening data. A full data listing is included as Appendix A.

The gas plant screening results are summarized in Tables 2-1 and 2-2. Table 2-1 presents the distribution of VOC concentration readings for each source type, while Table 2-2 presents similar data on soap scores.

The screening results for the production tank battery are presented separately, since this facility is not part of the gas plant. The limited screening data obtained for the tank battery are presented in Table 2-3 and 2-4 for VOC concentrations and soap scores, respectively. Table 2-5 presents a complete inventory of fittings on the tank battery.

It should be noted that the source type called flanges actually includes a variety of pipe-to-pipe connections including threaded fittings, unions, and compression-type tubing fittings. Welded joints were not included in this survey. The "other" category represents a group of sources that were too few in number to warrant separate listing. Included in the "other" category were sight glasses, vacuum breakers, meters, pig traps, control valve diaphragm vents, and thermowells.

TABLE 2-1

SUMMARY OF RESULTS:
VOC CONCENTRATION OCCURRENCE DISTRIBUTION
HOUSTON OIL AND MINERALS
SMITH POINT GAS PLANT

Screening Value (ppmv)	Source Type: FLANGES #	FLANGES %	PROCESS DRAINS #	PROCESS DRAINS %	OPEN ENDED LINES #	OPEN ENDED LINES %	RELIEF VALVES #	RELIEF VALVES %	VALVES #	VALVES %	PUMP SEALS #	PUMP SEALS %	COMPRESSORS #	COMPRESSORS %	OTHER #	OTHER %
0 TO 199	180	80.7	0	--	28	62.2	1	10.0	197	59.5	0	0.0	0	--	18	39.1
200 TO 9,999	31	13.9	0	--	10	22.2	0	0.0	56	16.9	1	100.0	0	--	14	30.4
>= 10.000	12	5.4	0	--	7	15.6	9	90.0	78	23.6	0	0.0	0	--	14	30.4
TOTAL SOURCES SCREENED	223	19.8	0	--	45	95.7	10	90.9	331	97.1	1	100.0	0	--	46	100.0
SOURCES NOT SCREENED	902*	80.2	0	--	2	4.3	1	9.1	10	2.9	0	0.0	0	--	0	0.0
TOTAL SOURCES	1125*		0		47		11		341		1		0		46	

- NUMBER OF SOURCES
% - PERCENT OF TOTAL SOURCES SCREENED

* ESTIMATED VALUE - EVERY FIFTH FLANGE WAS SURVEYED

TABLE 2-2

SUMMARY OF RESULTS:
SOAP SCORING OCCURRENCE DISTRIBUTION
HOUSTON OIL AND MINERALS
SMITH POINT GAS PLANT

	SOURCE TYPE															
	FLANGES		PROCESS DRAINS		OPEN ENDED LINES		RELIEF VLAVES		VALVES		PUMP SEALS		COMPRESSORS		OTHER	
SOAP SCORE	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
0	205	91.5	0	--	9	60.0	7	77.8	235	71.0	1	100.0	0	--	20	55.6
1	6	2.7	0	--	2	13.3	1	11.1	10	3.0	0	0.0	0	--	5	13.9
2	2	0.9	0	--	3	20.0	0	0.0	15	4.5	0	0.0	0	--	1	2.8
3	6	2.7	0	--	0	0.0	0	0.0	16	4.8	0	0.0	0	--	0	0.0
4	5	2.2	0	--	1	6.7	1	11.1	55	16.6	0	0.0	0	--	10	27.8
TOTAL SOURCES SOAPED	224	19.9	0	--	15	31.9	9	81.8	331	97.1	1	100.0	0	--	36	78.3
SOURCES NOT SOAPED	901*	80.1	0	--	32	68.1	2	18.2	10	2.9	0	0.0	0	--	10	21.7
TOTAL SOURCES	1125*		0		47		11		341		1		0		46	

- Number of Sources
% - Percent of Total Sources Soaped
* - Estimated Value - Every fifth flange was surveyed

TABLE 2-3

SUMMARY OF RESULTS:
VOC CONCENTRATION OCCURRENCE DISTRIBUTION
HOUSTON OIL AND MINERALS
SMITH POINT TANK BATTERY

SCREENING VALUE (PPMV)	SOURCE TYPE: FLANGES #	FLANGES %	PROCESS DRAINS #	PROCESS DRAINS %	OPEN ENDED LINES #	OPEN ENDED LINES %	RELIEF VALVES #	RELIEF VALVES %	VALVES #	VALVES %	PUMP SEALS #	PUMP SEALS %	COMPRESSORS #	COMPRESSORS %	OTHER #	OTHER %
0 TO 199	7	100.0	0	--	5	83.3	2	33.3	41	97.6	0	--	0	--	1	100.0
200 TO 9,999	0	0.0	0	--	1	16.7	3	50.0	0	0.0	0	--	0	--	0	0.0
>= 10,000	0	0.0	0	--	0	0.0	1	16.7	1	2.4	0	--	0	--	0	0.0
TOTAL SOURCES SCREENED	7	100.0	0	--	6	100.0	6	85.7	42	100.0	0	--	0	--	1	100.0
SOURCES NOT SCREENED	0*	0.0	0	--	0	0.0	1	14.3	0	0.0	0	--	0	--	0	0.0
TOTAL SOURCES	7*	100.0	0		6		7		42		0		0		1	
		0.0														

- NUMBER OF SOURCES
% - PERCENT OF TOTAL SOURCES SCREENED

* ESTIMATED VALUE - EVERY FIFTH FLANGE WAS SURVEYED

TABLE 2-4

SUMMARY OF RESULTS:
SOAP SCORING OCCURRENCE DISTRIBUTION
HOUSTON OIL AND MINERALS
SMITH POINT TANK BATTERY

SOAP SCORE	Source Type															
	FLANGES		PROCESS DRAINS		OPEN ENDED LINES		RELIEF VALVES		VALVES		PUMP SEALS		COMPRESSORS		OTHER	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
0	7	100.0	0	--	3	100.0	4	100.0	41	97.6	0	--	0	--	0	--
1	0	0.0	0	--	0	0.0	0	0.0	0	0.0	0	--	0	--	0	--
2	0	0.0	0	--	0	0.0	0	0.0	0	0.0	0	--	0	--	0	--
3	0	0.0	0	--	0	0.0	0	0.0	0	0.0	0	--	0	--	0	--
4	0	0.0	0	--	0	0.0	0	0.0	1	2.4	0	--	0	--	0	0.0
TOTAL SOURCES SOAPED	7	100.0	0	--	3	50.0	4	57.1	42	100.0	0	--	0	--	0	0.0
SOURCES NOT SOAPED	0*	0.0	0	--	3	50.0	3	42.9	0	0.0	0	--	0	--	1	100.0
TOTAL SOURCES	7*		0		6		7		42		0		0		1	

- NUMBER OF SOURCES
% - PERCENT OF TOTAL SOURCES SOAPED

* ESTIMATED VALUE - EVERY FIFTH FLANGE WAS SURVEYED

TABLE 2-5

SUMMARY OF RESULTS:
COMPONENT INVENTORY
HOUSTON OIL AND MINERALS
SMITH POINT TANK BATTERY

Component Type	Service	Population
Valves - block/gate	Gas	68
	Liquid	16
- block/plug	Gas	51
	Liquid	15
- block/ball	Gas	6
	Liquid	16
- control/globe	Gas	5
- control/plug	Liquid	2
Flanges	Gas	708
	Liquid	263
Open-ended lines	Gas	3
	Liquid	10
Relief valves	Gas	9

SECTION 3

PROCESS DESCRIPTION

The Houston Oil and Minerals Smith Point Plant is located on the upper Texas Gulf Coast. This gas plant uses the solid bed adsorption principle to partially remove ethane and heavier hydrocarbons from natural gas before routing it to a sales gas pipeline.

Natural gas liquids are removed by adsorption onto silica gel in a set of swing adsorbers. The treated natural gas goes to a pipeline for sale with custody transfer taking place before the metering station. The natural gas liquids are stripped from a spent bed with hot regeneration gas and then condensed. The condensed liquids are routed to on-site tankage, from which they are periodically off-loaded into tank trucks for sales.

This site had three separate adsorption units (Units A, B, and C). Adsorption Unit A was the largest of the three with a capacity of 60 MMSCFD (million standard cubic feet per day). During the testing, the charge rate to Unit A varied from 55 MMSCFD to 33 MMSCFD. Unit B (capacity 20 MMSCFD) was shut down and depressured, so no survey was conducted there. Unit C (capacity of 30 to 60 MMSCFD) was not operating, but it was under pressure with natural gas. A survey of Unit C was, therefore, performed. There was also an oil production tank battery at this site, so a limited survey was made of that area. The results sections are coded as follows to distinguish between sources:

Unit No.	Description
1	Adsorption Unit A and the storage and loading facilities
2	Adsorption Unit C
3	Tank Battery

Figure 3-1 presents a simplified schematic diagram of one cycle of operation of Adsorption Unit A. The inlet gas flows through a liquid knock-out drum and into a manifold of time-cycled three-way valves. In the cycle shown in the drawing, the feed gas is routed through adsorbers #1 and #2 and out to sales. A slipstream of the treated gas is heated and routed to adsorber #3 for regeneration. The rich outlet from adsorber #3 is condensed and the liquids routed to storage. The noncondensibles are used as fuel in the regeneration gas heater. Adsorber #4 is cooling prior to return to adsorption service.

In the next cycle, adsorbers #1 and #4 would be in adsorption service, adsorber #2 would be regenerating, and adsorber #3 would be cooling. Four such consecutive cycles would return the unit to the starting point.

Adsorption Units B and C were quite similar, except that they had only three adsorbers each. With only one vessel in adsorption service, these units would finish a complete loop in only three cycles.

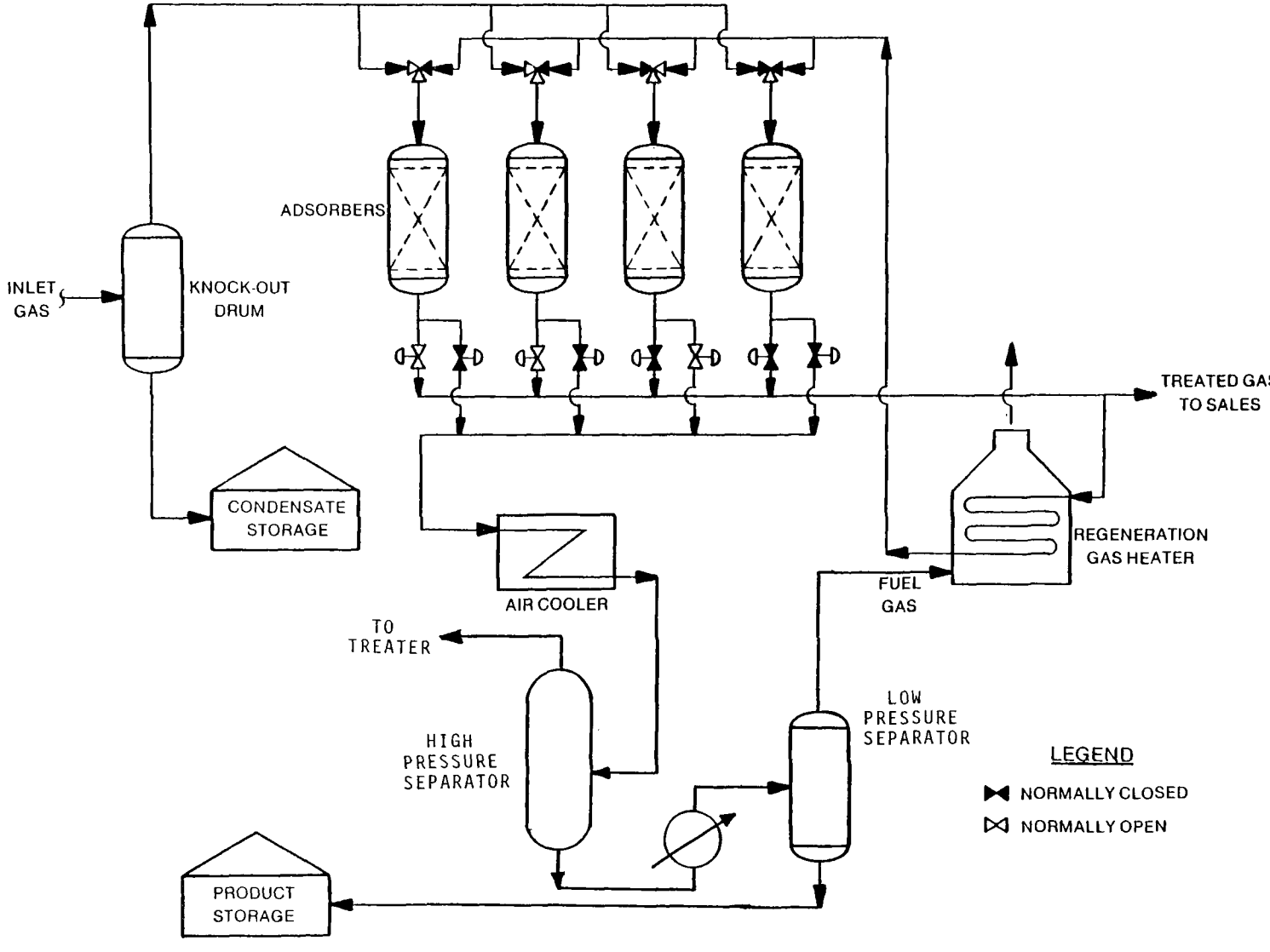

Figure 3-1. Simplified flow diagram for adsorption Unit A. (Shown in one of four possible cycles)

SECTION 4

TESTING METHODOLOGY

The fugitive emissions testing at this site was limited to "screening." Screening is a generic term covering any quick, portable method of detecting fugitive emissions. Two screening methods were used in parallel on this task, instrumental screening (using the Century Systems OVA-108) and soap scoring.

The instrumental screening was done according to the procedures specified in EPA Proposed Method 21.[1] The instrument performance evaluations are included as Tables 4-1 and 4-2. Method 21 only requires the exact concentration to be recorded if it is over the leak definition specified in the applicable standard, but since this effort was more oriented to standards support than to regulatory monitoring, the maximum screening value was recorded for all sources.

The soap scoring method was modeled after a method used in screening fugitive emissions from petroleum production facilities.[2] The soap solution was prepared from 100 ml. of rug shampoo (HR Professional Formula) mixed with a gallon of either distilled water or a mixture of distilled water and ethylene glycol. The solution was applied using a common garden sprayer.

Each source was sprayed with soap solution, being sure to coat all areas of potential leakage. A careful inspection was then conducted to detect any bubble formation. A soap score was then assigned based on the estimated bubble volume generated in a six-second observation:

[1] Federal Register, v46 n2 Monday Jan. 5, 1981, pp. 1160.

[2] Eaton, W.S., et al. "Fugitive Hydrocarbon Emissions from Petroleum Production Operations." API Publication No. 4322, American Petroleum Institute (1980).

TABLE 4-1

CALIBRATION ERROR DETERMINATION

Instrument ID Century Systems OVA-108

Serial Number: 2158

Calibration Gas Data 1-9-81

Calibration = 7990 ppmv

Run No.	Instrument Meter Reading, ppm	Difference[1] ppm
1.	8000	-10
2.	8200	-210
3.	8000	-10
4.	8000	-10
5.	8000	-10
6.	8400	-410
7.	8100	-110
8.	8500	-510
9.	8200	-210

Mean Difference -166

$$\text{Calibration Error} = \frac{\text{Mean Difference}^{(2)}}{\text{Calibration Gas Concentration}} \times 100 \qquad -2.1$$

[1] Calibration Gas Concentration - Instrument Reading

TABLE 4-2

RESPONSE TIME DETERMINATION

Instrument ID: Century Systems OVA-108 Serial Number: 2158

Calibration Gas Concentration: 7990 ppmv

1-9-81

90% Response Time:

	Without Dilution Probe	With Dilution Probe
1.	5.8 Seconds	7.1 Seconds
2.	7.0 Seconds	9.5 Seconds
3.	5.5 Seconds	7.0 Seconds
Mean Response Time	6.1 Seconds	7.8 Seconds

Soap Score	Estimated Bubble Volume
0	No detectable bubbles
1	0 to 1 cc/6 sec
2	1 to 10 cc/6 sec.
3	10 to 100 cc/6 sec.
4	>100 cc/6 sec.

The screening methods outlined above were used on every accessible source except for flanges. Approximately 20 percent of the flanges were screened because of their large population. Sources screened included valves, flanges, pumps, compressors, open-ended lines, drains, relief valves, and other miscellaneous sources. The survey was conducted on a line-by-line basis to minimize the time required to obtain process data, such as the composition and phase of the material in the line. For those sources that were not screened due to either physical inaccessibility or safety problems which prevented close approach, entries were recorded on the data sheets to insure that a complete source inventory was obtained.

APPENDIX A

TABLE A-1: Full Data Listing

TABLE A-2: Listing of Coding Conventions

TABLE A-3: Material Coding Sheets

TABLE A-4: QA/QC Data

TABLE A-1.

FULL DATA LISTING

Screening Data Sheet

NRH - 1
MAC = 2
GEH = 3
FAS - 4

Date 10 44 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 1 2 3 (11 12 13) 5 C 0 Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
1	4.0	1 3	1	1	1		0	1	
2	5.0	1 3	1	1	1		0	1	
3	10.0	1	1	1	1		0	2	
4	3.0	1 2	1	1	1		0	2	
5	.0	1	1	1	1		1	1	TAPED
6	.0	3	1	1	1		–	2	
7	—	3	1	1	2	1	–	1	
8	.0	1 2	1	1	1		0	2	
9	.0	1	1	1	1		0	2	PIG TRAP HATCH
10	.0	1	1	1	1		0	2	SIGHT GLASS

Raw Gas Inlet

Screening Data Sheet

Date 4 9 8 0 (1 2 3 4 5 6) Plant i (7 8) Process Unit 1 (9 10) Screening Team 1 2 3 (11 12 13) Instrument I.D. 1 (14 15)

16 Source I.D.	22 Screening Value	29 Source Type	31 Service	32 Material Code	36 Elevation	37 Accessibility	38 Soap Score	39 Orientation	40/60 Comments 59/79
1 1	0	1 0	1	1	1		0	2	
1 2	0	1 0	1	1	1		0	2	
1 3	0	2 1	1	1	1		0	1	
1 4	0	1 1	1	1	1		0	2	
1 5	0	1 0	1	1	1		0	1	
1 6	0	1 0	1	1	1		0	1	
1 7	0	1 0	1	1	1		0	1	
1 8	1 0	1 0	1	1	1		0	2	
1 9	0	1 1	1	1	1		0	1	
2 0	0	1 1	1	1	1		0	1	

Raw Gas Inlet

Screening Data Sheet

Date 1 2 3 4 5 6: 4 6 8 0 | Plant 7 8: | Process Unit 9 10: 1 | Screening Team 11 12 13: 1 2 3 | Instrument I.D. 14 15:

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
211	1,000	1	1	1	1		0	2	
212	0	2	1	1	1		0	1	
213	50	1,0	1	1	1		0	3	
214	0	1,0	1	1	1		0	3	
215	0	1,0	1	1	1		0	3	
216	20	1	1	1	1		1	2	
217	0	1,2	1	1	1		0	1	
218	20	1	1	1	1		0	2	
219	0	1	1	1	1		0	2	
310	0	1	1	1	1		0	2	

Gas Inlet

Screening Data Sheet

Date 10 04 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 1 2 3 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
31	0	12	1	1	1		0	1	
32	0	1	1	1	1		0	2	
33	10000.1	1	1	1	1		3	1	
34	200.0	10	1	1	1		0	2	
35	450	10	1	1	1		2	2	
36	0	10	1	1	1		0	2	
37	0	1	1	1	1		0	2	SIGHT GLASS
38	1000	1	1	1	1		0	1	
39	0	10	2	8	1		0	2	
40	0	3	2	8	1		–	1	

23

QC

Raw Gas Inlet

Drip Condensate

Screening Data Sheet

Date 11 | 6 | 8 0 (1 2 3 4 5 6) Plant | 1 (7 8) Process Unit | 1 (9 10) Screening Team 1 2 3 (11 12 13) Instrument I.D. | 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
4 1	0	1 2	2	8	1		0	1	
4 2	0	1	2	8	1		0	2	
4 3	0	1 2	2	8	1		1	1	
4 4	0	1 2	2	8	1		0	1	
4 5	1 0 0 0 0	1 0	2	8	1		3	1	
4 6	0	1 2	2	8	1		0	3	
4 7	0	1 2	2	8	1		0	1	
4 8	0	1 2	1	1	1		0	1	
4 9	0	1	1	1	1		0	2	
5 0	1 0 0 0 0	1 0	1	1	1		4	2	

Drip Condensate

Raw Gas Inlet

10-80-0083

Screening Data Sheet

Date 10/06/80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 1 2 3 (11 12 13) Instrument I.D. 11 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
51	400	10	1	1	1		0	1	
52	0	10	1	1	1		0	1	
53	0	10	1	1	1		0	1	
54	0	01	1	1	1		0	2	
55	0	10	1	1	1		0	1	
56	1000001	10	1	1	1		4	2	
57	800	01	1	1	1		0	2	
58	0	01	1	1	1		0	1	
59	600	01	1	1	1		0	2	TAPED
60	0	10	1	1	1		0	2	

Raw Gas Inlet

10-80-0083

Screening Data Sheet

Date 4 4 80 (1 2 3 4 5 6) Plant (7 8) Process Unit 1 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
61	0	10	2	7	1		0	1	
62	0	10	2	7	1		0	1	
63	0	01	2	7	1		0	2	
64	0	01	2	7	1		0	2	
65	0	10	2	7	1		0	1	
66	0	01	2	7	1		0	2	
67	10000	40	2	7	1		0	4	
68	0	10	2	7	1		1	1	
69	0	01	2	7	1		0	2	
70	0	10	2	7	1		0	2	

Nat. Gasoline loading line

Screening Data Sheet

Date 4 9 8 0 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
71	7000	10	2	7	1		0	1	
72	0	01	2	7	1		0	2	
73	0	10	2	7	1		0	1	
74	0	10	2	7	1		1	1	
75	0	01	2	7	1		0	2	
76	0	10	2	7	1		0	2	
77	0	01	2	7	1		0	2	
78	0	10	2	7	1		0	2	
79	0	01	2	7	1		0	1	
80	0	10	2	7	1		0	2	

Nat Gasoline loading line

10-80-0083

Screening Data Sheet

Date 8 0 (1 2 3 4 5 6) Plant (7 8) Process Unit 1 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
81	0	3	2	7	1		2	1	
82	10000	03	2	7	1		-	2	LIQUID
83	0	12	2	7	1		0	1	
84	10001	03	2	7	1		-	2	
85	0	12	2	7	1		0	1	HIGH BACKGROUND
86	0	12	2	7	1		0	2	
87	0	01	2	7	1		0	2	
88	0	12	2	7	1		0	1	
89	100	10	2	7	1		0	2	
90	4000	03	2	7	1		-	2	

Nat. Gasoline loading line

Screening Data Sheet

Date 10 06 80 (1 2 3 4 5 6) Plant 01 (7 8) Process Unit 01 (9 10) Screening Team 321 (11 12 13) Instrument I.D. 01 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
91	0	03	2	7	1		-2		
92	0	01	2	7	1		01		
93	0	01	2	7	1		01		
94	0	12	2	7	1		02		
95	0	03	2	7	1		-2		
96	[illegible]	01	1	1	1		02		HIGH BACKGRN 200 PPM
97	4,000	10	1	1	1		31		
98	0	01	1	1	1		01		
99	1,000,001	10	1	1	1		41		
100	0	01	1	1	1		01		

Nat. Gasoline loading line

Raw Gas into "A"

qc

29

10-80-0083

Screening Data Sheet

Date 10 84 80 (1 2 3 4 5 6) Plant (7 8) Process Unit 01 (9 10) Screening Team 321 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
101	0	01	1	1	1		0	1	
102	10000	10	1	1	1		4	2	
103	0	12	1	1	1		0	2	
104	0	12	1	1	1		0	3	
105	700	01	1	1	1		0	2	
106	10000	10	1	1	1		4	1	
107	10000	10	1	1	1		4	1	
108	0	01	1	1	1		0	1	
109	400	22	1	1	1		0	1	
110	10000	10	1	1	1		0	2	

Raw Gas with "A"

10-80-0083

Screening Data Sheet

Date 1 2 3 4 5 6: 1 9 8 0 | Plant 7 8: | Process Unit 9 10: 1 | Screening Team 11 12 13: 3 1 2 | Instrument I.D. 14 15: 1

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
1 1 1	1 0 0 0 0 1	0 1	1	1	1		4	2	
1 1 2	3 0 0	0 1	1	1	1		0	2	
1 1 3	4 0 0 0	1 0	1	1	1		2	2	
1 1 4	0	1 0	1	1	1		0	2	
1 1 5	0	7 3	1	1	1		0	2	
1 1 6	0	1 0	1	1	1		0	2	
1 1 7	0	0 1	1	1	1		0	1	
1 1 8	0	2 0	1	1	1		0	2	
1 1 9	0	0 3	1	1	1		−	2	
1 2 0	0	1 0	1	1	1		0	2	

Run Gas Kate "A"

Screening Data Sheet

Date 10 06 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 3 1 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
121	0	03	1	1	1		1	2	
122	0	10	1	1	1		0	2	
123	0	02	1	1	1		0	2	
124	0	01	1	1	1		0	2	
125	3.0.0	01	1	1	1		0	1	
126	1.0.0.0.0.1	14	1	1	1		1	1	
127	1.0.0	01	1	1	1		0	1	
128	0	01	1	1	1		0	2	
129	0	10	1	1	1		0	2	
130	0	10	1	1	1		0	2	

Run Gun Unit "A"

10-80-0083

Screening Data Sheet

Date 10/06/80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 3 1 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
131	0	10	1	1	1		0	2	
132	450	10	1	1	1		0	2	
133	250	10	1	1	1		0	2	
134	0	01	1	1	1		0	2	
135	0	01	1	1	1		0	2	
136	50	10	1	1	1		0	2	HIGH BACKGROUND-650 PPM
137	10000	10	1	1	1		8	2	
138	0	01	1	1	1		0	2	
139	—	10	1	1	1		0	2	HIGH BACKGROUND
140	0	10	1	1	1		0	2	

Raw Gas Unit 11

10-80-0083

Screening Data Sheet

Date 10/06/80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 3/12 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
141	0	01	1	1	1		0	1	HIGH BACKGROUND
142	0	01	1	1	1		0	1	
143	100000	10	1	1	1		4	2	
144	1E00	10	1	1	1		0	1	
145	10000	10	1	1	1		4	2	
146	0000	01	1	1	1		0	2	
147	10000	15	1	1	1		4	1	DOUBLE PORTED DBL TR IN GAS CTL. VALVE
148	0	01	1	1	1		0	2	
149	2000	20	1	1	1		0	2	
150	3000	03	1	1	1		–	2	

Raw Gas Unit "A"

Screening Data Sheet

Date 19 09 80 (1 2 3 4 5 6) Plant (7 8) Process Unit (9 10) Screening Team 2 1 3 (11 12 13) Instrument I.D. (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
151	3,000	12	1	1	1		0	1	
152	70,000	3	1	1	1		–	2	
153	—	10	1	2	1		0	1	HIGH BACKGROUND
154	1,500	3	1	2	1	1	–	1	
155	25,000	10	1	2	1		2	1	
156	100,000	1	1	2	1		3	2	
157	10,000,001	10	1	2	1		4	1	
158	0	1	1	2	1		0	2	
159	3,000	1	1	2	1		0	2	
160	70,000	10	1	2	1		2	1	

Raw Gas into A

Product Gas from A

10-80-0083

Screening Data Sheet

Date 1 4 6 6 8 0 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 2 1 3 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
161	0	1	1	2	1		0	2	
162	3,0,0	1	1	2	1		0	3	
163	1,5,0,0,0	10	1	2	1		2	2	
164	1,0,0,0,0,1	10	1	2	1		4	1	
165	—	10	1	2	1		0	2	HIGH BKGKD
166	2,5,0,0	10	1	2	1		1	2	
167	0	1	1	2	1		0	2	
168	1,0,0,0,0,1	21	1	2	1		4	1	
169	1,0,0,0,0,1	1	1	2	1		0	2	
170	1,0,0,0,0,1	10	1	2	1		4	2	

Propane Gas pipe A

10-80-0083

Screening Data Sheet

Date 10 9 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 3 3 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
171	30000	1	1	2	1		3	1	
172	50	10	1	2	1		0	2	
173	0	01	1	2	1		0	2	
174	15000	10	1	2	1		3	2	
175	95000	01	1	2	1		3	1	TUBING CONNECTOR
176	80000	11	1	2	1		0	2	
177	0	01	1	2	1		0	2	
178	0	10	1	2	1		0	2	
179	0	10	1	2	1		0	2	
180	0	10	1	2	1		0	2	

Product Gas from Adsorbers

10-80-0083

Screening Data Sheet

Date 19 87 80 (1 2 3 4 5 6) Plant 01 (7 8) Process Unit 01 (9 10) Screening Team 132 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
181	000	21	1	2	1		0	1	~~ETC~~
182	100000	21	1	2	1		4	1	CYCLE 3 C-1 3 WAY V ALVE
183	100000	21	1	2	1		4	2	CYCLE 3 C-2 3 WAY V ALVE
184	100000	21	1	2	1		4	2	CYCLE 3 C-3 3 WAY V ALVE
185	100000	21	1	2	1		4	1	CYCLE 3 H-5 3 WAY V ALVE
186	100000	21	1	2	1		4	1	CYCLE 3 R-4 3 WAY V ALVE
187	15000	21	1	2	1		2	1	CYCLE 3 R-2 3 WAY V ALVE
188	100000	21	1	2	1		-	1	CYCLE 3 R-1 3 WAY V ALVE
189		21	1	2	1	1	-	1	CYCLE 3 M-5 3 WAY V ALVE
190		21	1	2	1	1	-	1	CYCLE 3 M-6 3 WAY V ALVE

10-80-0083

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant 0 1 (7 8) Process Unit 0 1 (9 10) Screening Team 1 3 2 (11 12 13) Instrument I.D. / (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
191	1500	21	1	2	1		2	2	CYCLE 3 ~~R-4~~ 3 WAY VALVE
192	10000001	21	1	2	1		4	2	CYCLE 3 R-3 3 WAY VALVE
193	100001	21	1	2	1		3	2	CYCLE 3 H-4 EXTINGUISHED FLAME 3 WAY VALVE
194	10001	21	1	2	1		4	2	CYCLE 3 H-3 3 WAY VALVE
195	100001	21	1	2	1		-	2	CYCLE 3 H-2 3 WAY VALVE
196	100001	21	1	2	1		-	2	CYCLE 3 H-1 3 WAY VALVE
182	10000001	21	1	2	1		4	1	CYCLE A C-1 3 WAY VALVE
183	10000001	21	1	2	1		4	2	CYCLE 4 C-2 3 WAY VALVE
184	10000001	21	1	2	1		4	2	CYCLE 4 C-3 3 WAY VALVE
185	10000001	21	1	2	1		4	1	CYCLE 4 H-5 3 WAY VALVE

10-80-0083

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant 01 (7 8) Process Unit 01 (9 10) Screening Team 132 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
186	2500	2	1	2	1		2	1	CYCLE 4 R-4
187	~	2	1	2	1		2	1	CYCLE 4 R-2 HIGH BACKGROUND
188	10001	2	1	2	1		-	1	CYCLE 4 R-1
189	~	2	1	2	1	1	-	1	CYCLE 4 M-5
190	~	2	1	2	1	1	-	1	CYCLE 4 M-6
191	10001	2	1	2	1		4	2	CYCLE 4
192	10001	2	1	2	1		4	2	CYCLE 4 R-3 FLAME OUT
193	10001	2	1	2	1		3	2	CYCLE 4 H-4 FLAME OUT
194	10001	2	1	2	1		4	2	CYCLE 4 H-3 FLAME OUT
195	10001	2	1	2	1		4	2	CYCLE 4 H-2 FLAME OUT
196	10001	2	1	2	1		4	2	CYCLE 4 H-1 FLAME OUT

40

10-80-0083

Screening Data Sheet

Date 1 2 3 4 5 6 | Plant 7 8 | Process Unit 9 10 | Screening Team 11 12 13 | Instrument I.D. 14 15

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
182	0.0	21	i	2	1		4	1	CYCLE 1 . C - 1
183	0.0	21	1	2	1		4	2	CYCLE 1 . C - 2
184	0.0	21	1	2	1		4	2	CYCLE 1 . C - 3 FLAME BL OWN OUT
185	0.0	21	1	2	1		4	1	CYCLE 1 . H - 5
186	5.0	21	1	2	1		4	1	CYCLE 1 . R - 4
187	0.0	21	1	2	1		4	1	CYCLE 1 . R - 2
188	0.0	21	1	2	1		4	1	CYCLE 1 . R - 1
189		21	1	2	1	1	–	1	CYCLE 1 . M - 5
190		21	1	2	1	1	–	1	CYCLE 1 . M - 6
191	6.0	21	1	2	1		3	2	CYCLE 1 . [illegible]

10-80-0083

Screening Data Sheet

Date 10 27 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 3 1 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
192	10001	2	1	2	1		4	2	CYCLE 1 R-3
193	10001	2	1	2	1		4	2	CYCLE 1 H-4 FLAME OUT
194	10001	2	1	2	1		4	2	CYCLE 1 H-3 FLAME OUT
195	10001	2	1	2	1		4	2	CYCLE 1 H-2
196	10001	2	1	2	1		4	2	CYCLE 1 H-1
197	0	0	1	2	1		0	2	
198	0	0	1	2	1		0	2	
199	0	0	1	2	1		0	2	
200	0	0	1	2	1		0	2	
201	4001	0	1	2	1		0	2	

Screening Data Sheet

Date 19 07 80 (1 2 3 4 5 6) Plant 01 (7 8) Process Unit 01 (9 10) Screening Team 312 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
182 ~~202~~	5,000	2	1	2	1		4	1	CYCLE 2 C-1
183	10,000	2	1	2	1		4	2	CYCLE 2 C-2
184	10,000	2	1	2	1		4	2	CYCLE 2 C-3
185	10,000	2	1	2	1		4	1	CYCLE 2 H-5
186	10,000	2	1	2	1		1	1	CYCLE 2 R-4
187	9,000	2	1	2	1		1	1	CYCLE 2 R-2
188	9,000	2	1	2	1		4	1	CYCLE 2 R-1
189	—	2	1	2	1	1	–	1	CYCLE 2 m-5
190	—	2	1	2	1	1	–	1	CYCLE 2 m-6
191	10,000	2	1	2	1		4	2	CYCLE 2

10-80-0083

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 122 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
192	10001	22	1	2	1		4	2	CYCLE 2 R-3
193	10001	22	1	2	1		4	2	CYCLE 2 H-4
194	10001	22	1	2	1		4	2	CYCLE 2 H-3
195	10001	22	1	2	1		4	2	CYCLE 2 H-2
196	10001	22	1	2	1		4	2	CYCLE 2 H-1
202	10	22	1	2	1		0	1	
203	10	01	1	2	1		0	2	
204	10	01	1	3	1		[illegible]	1	HOT FLANGE
205	10	22	1	6	1		0	1	
206	10	01	1	6	1		0	2	

10-80-0083

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 3 1 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
202	100	10	1	6	1		0	2	
203	0	10	1	6	1		0	2	
204	0	01	1	6	1		0	2	
205	100	01	1	6	1		0	2	
206	0	10	1	6	1		0	2	
212	0	10	1	6	1		0	3	
213	0	10	1	6	1		3	1	
214	0	10	1	6	1		0	2	
215	0	01	1	6	1		0	2	
216	0	01	1	6	1		0	2	

10-80-0083

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 3 1 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
217	0	10	1	6	1		0	2	
218	1000	10	1	6	1		3	1	
219	0	10	1	6	1		0	2	
220	3000	10	1	6	1		1	2	

10-80-0083

Screening Data Sheet

Date 10 01 80 (1 2 3 4 5 6) Plant (7 8) Process Unit 1 (9 10) Screening Team 1 2 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
226	0	01	1	06	1		1	2	
227	0	01	1	6	1		0	1	
228	500	11	1	6	1		2	2	
229	0	11	1	6	1		0	2	
230	0	20	1	6	1		0	2	
231	0	20	1	6	1		0	2	
232	0	20	1	6	1		0	2	
233	0	01	1	6	1		0	1	
234	0	01	1	6	1		0	1	
235	2000	10	1	6	1		4	2	

47

10-80-0083

D2

Screening Data Sheet

Date 6 5 8 0 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 1 1 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
236	0	01	1	6	1		0	2	
237	200	12	1	1	1		0	2	
238	200	01	1	6	1		0	1	TAPED CONNECTION
239	10001	11	1	6	1		4	2	
240	500	03	1	6	1		1	1	
241	100	22	1	6	1		0	1	
242	1200	03	1	6	1		2	2	
243	700	25	1	6	1		0	1	DIAPHRAM REGULATOR
244	10	11	1	6	1		0	1	
245	0	10	1	6	1		0	1	

10-80-0083

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 1 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
246	1000	74	1	6	1		2	1	
247	0	74	1	6	1		0	2	DIAPHRAM REGULATOR
248	0	74	1	6	1		0	2	
249	2000	01	1	6	1		0	2	
250	0	20	1	6	1		0	2	
251	10000001	12	1	6	1		4	1	
252	1000	12	1	6	1		0	1	
253	0	12	1	6	1		0	3	
254	0	3	1	6	1		0	3	
255	2000	01	1	6	1		0	1	

49

10-80-0083

Screening Data Sheet

Date 1 5 8 0 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 1 1 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
256	500	10	1	6	1		0	1	
257	400	12	1	6	1		2	1	
258	0	03	1	6	1		–	2	
259	0	10	1	6	1		4	1	
2610	0	12	1	6	1		4	1	
2611	500	01	1	6	1		0	1	
2612	300	11	1	6	1		0	1	
2613	0	11	1	6	1		4	5	
2614	0	05	1	6	1		0	1	
2615	0	74	1	6	1		4	1	DIAPHRAGM

10-80-0083

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 02 02 01 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
266	100001	01	1	6	1		4	1	CYCLE 1 START
267	0	1	1	6	1		0	1	
268	0	74	1	6	1		0	1	DIAPHRAGM
269	0	12	1	2	1		0	2	
270	2000	10	1	2	1		0	1	
271	—	10	1	2	1	1	—	1	
272	0	10	1	2	1		0	2	
273	3000	10	1	2	1		—	2	
274	0	10	1	2	1		—	1	
275	10001	3	1	2	1		—	2	

10-80-0083

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant (7 8) Process Unit 1 (9 10) Screening Team 2 2 1 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
276	0	10	1	2	1		0	2	
277	0	1	1	2	1		0	1	
278	500	1	1	2	1		1	2	
279	6,000	1	1	2	1		0	2	
280	0	1	1	2	1		0	2	
281	0	10	1	2	1		0	1	
282	9,000	3	1	2	1		–	2	
283	5,000	74	1	2	1		1	1	VALVE VENT - DIAPHM
284	1,000	1	1	2	1		1	1	
285	0	10	1	2	1		0	3	

10-80-0083

Screening Data Sheet

Date 10 | 9 7 | 8 0 (1 2 3 4 5 6) Plant | 1 (7 8) Process Unit | 1 (9 10) Screening Team 2 | 2 | 1 (11 12 13) Instrument I.D. | 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
286	0	1	1	4	1		0	2	
287	0	1	1	4	1		0	2	
288	0	74	1	2	1		0	1	
289	0	1	1	2	1		0	2	
290	1000	10	1	4	1		0	2	
291	0	10	1	4	1		0	2	
292	0	10	1	4	1		0	2	
293	0	10	1	4	1		0	2	
294	0	10	1	4	1		0	2	
295	0	74	1	2	1		0	1	DIAPRAGM VALVE

High Pressure Separator

10-80-0083

Screening Data Sheet

Date 10 9 80 (1 2 3 4 5 6) Plant (7 8) Process Unit 1 (9 10) Screening Team 2 2 1 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
296	0	1	1	2	1		0	2	
297	1000001	1	1	2	1		4	2	
298	0	1	1	4	1		0	2	
299	30000	1	1	4	1		0	2	
300	200	3	1	4	1		–	3	
301	0	3	1	4	1		–	2	
302	40	1	1	4	1		0	2	
303	0	1	1	4	1		0	1	
304	0	1	1	4	1		0	1	
305	0	1	1	4	1		0	3	

10-80-0083

Screening Data Sheet

Date 10 21 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 2 2 1 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
306	0	1	1	4	1		0	3	
307	1800	74	1	4	1		1	1	CONTROL VALVE VENT
308	0	1	1	2	1		0	3	
309	200	1	1	4	1		0	2	
310	0	10	2	5	1		0	2	
311	0	10	2	5	1		0	2	
312	0	1	2	5	1		0	2	
313	0	12	2	5	1		0	2	
314	0	3	2	5	1				
315	0	10	2	5	1		0	2	

10-80-0083

Screening Data Sheet

Date 19 07 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 2 2 1 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
316	0	3	2	5	1		←	2	
317	1000	74	1	2	1		-	1	CONTROL VALVE VENT
318	0	1	1	2	1		0	1	
319	0	1	1	2	1		0	1	
320	0	10	1	2	1		0	1	
321	0	3	1	2	1		-	2	
322	0	1	2	5	1		0	1	HP SEP BOOT
323	0	12	2	5	1		1	2	
324	0	12	2	5	1		0	1	
325	0	1	2	5	1		0	1	

10-80-0083

Screening Data Sheet

Date 10 87 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 2 2 1 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
326	0	10	2	5	1		0	1	
327	0	1	2	5	1		0	2	
328	0	12	2	5	1		0	1	
329	0	12	2	5	1		0	2	
330	0	1	2	5	1		0	2	
331	0	1	2	5	1		0	2	
332	0	1	2	5	1		0	2	
333	—	3	2	5	1	3	-	2	
334	0	1	2	5	1		0	2	
335	0	12	1	2	1		0	2	HIGH BACK LIQ LEAK

Screening Data Sheet

Date 10 | 17 | 80 (1 2 3 4 5 6) Plant | 1 | (7 8) Process Unit | 1 | (9 10) Screening Team 3 | 2 | 1 (11 12 13) Instrument I.D. | 1 | (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
336	10000	74	1	2	1		4	1	CONTROL VALVE VENT
337	0	1	1	2	1		0	2	
338	0	12	1	5	1		0	1	LIQUID LEAK IN AREA 338-344
339	0	01	1	5	1		0	1	
340	0	01	1	5	1		0	2	
341	0	12	1	5	1		0	3	
342	0	12	1	5	1		0	3	
343	0	03	1	5	1		[illegible]	3	
344	10000	22	1	5	1		4	2	LIQUID LEAK-HOLE IN VALVE
345	0	01	1	5	1		0	2	

10-80-0083

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 1 1 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
346	0	12	1	5	1		0	1	
347	0	12	1	5	1		0	2	
348	0	01	1	5	1		0	2	
349	0	12	1	5	1		0	1	
350	0	01	2	6	1		0	2	
351	0	12	2	6	1		0	2	
352	0	12	2	6	1		0	2	
353	0	01	2	7	1		0	2	
354	0	03	2	7	1		-	2	
355	0	01	1	6	1		0	2	

10-80-0083

Screening Data Sheet

Date 19 87 8 0 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 1 1 2 (11 12 13) Instrument I.D. 1 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
356	0	12	1	6	1		0	2	
357	0	01	1	6	1		0	2	
358	0	12	1	6	1		0	2	
359	0	01	1	6	1		0	1	
360	30000	11	1	6	1		3	2	
361	1000	11	1	6	1		0	2	
362	2000	03	2	7	1		-	2	
363	0	01	2	7	1		0	1	
364	10	12	2	7	1		0	1	
365	0	01	2	7	1		0	2	

09

10-80-0083

Screening Data Sheet

Date [10][09][80] (1 2 3 4 5 6) Plant [ ][1] (7 8) Process Unit [ ][1] (9 10) Screening Team [1][1][2] (11 12 13) Instrument I.D. [ ][1] (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
366	0	12	2	7	1		0	3	
367	0	03	2	7	1		-	3	
368	0	12	2	7	1		0	1	
369	0	01	2	7	1		0	1	
370	0	12	2	7	1		0	1	
371	0	01	2	7	1		0	1	
372	0	01	2	7	1		0	1	
373	0	12	2	7	1		0	3	
374	0	12	2	7	1		0	1	
375	0	01	2	7	1		0	2	

61

10-80-0083

Screening Data Sheet

Date [ ][ ][8][0] (1 2 3 4 5 6) Plant [ ][1] (7 8) Process Unit [ ][1] (9 10) Screening Team [1][1][2] (11 12 13) Instrument I.D. [ ][1] (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
376	0	01	2	7	1		0	2	
377	5000	10	2	7	1		2	1	
378	0	12	2	7	1		0	1	
379	0	01	2	7	1		0	2	
380	0	01	2	7	1		0	2	
381	0	10	2	7	1		0	1	
382	0	10	2	7	1		0	1	
383	0	01	2	7	1		0	2	
384	3000	10	2	7	1		0	1	
385	0	01	2	7	1		0	2	

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant (7 8) Process Unit 1 (9 10) Screening Team 1 1 2 (11 12 13) Instrument I.D. (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
386	0	10	2	7	1		0	3	
387	0	01	1	6	1		0	2	
388	300	03	1	6	1		-	2	
389	2000	05	1	6	1		1	2	
390	0	01	1	2	1		0	1	
391	10001	74	1	2	1		-	2	
392	0	10	1	2	1		0	1	
393	3000	11	1	2	1		3	1	
394	0	03	1	2	1		-	3	
395	0	01	1	2	1		0	2	

10-80-0083

Screening Data Sheet

Date 10 07 80 (1 2 3 4 5 6) Plant 01 (7 8) Process Unit (9 10) Screening Team 112 (11 12 13) Instrument I.D. (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
396	0	10	1	2	1		0	1	
397	10000	10	1	2	1		4	1	
398	10000	74	1	2	1		-	2	
399	0	01	1	2	1		0	2	
400	0	10	1	2	1		0	2	
401	0	01	1	2	1		0	2	
402	10000	10	1	2	1		3	2	
403	0	01	1	2	1		0	1	
404	10000	25	1	2	1		-	1	FLAME OUT
405	0	01	1	2	1		0	1	

64

10-80-0083

Screening Data Sheet

Date 1 2 3 4 5 6: 1 9 0 7 8 0 | Plant 7 8: 0 1 | Process Unit 9 10: | 1 | Screening Team 11 12 13: 1 1 2 | Instrument I.D. 14 15: | 1 |

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
406	0	01	1	2	1		0	1	
407	0	01	1	2	1		0	1	
408	1,000	10	1	2	1		8	2	
409	6,000	21	1	2	1		0	2	
410	1,000	01	1	2	1		3	2	
411	4,000	75	1	2	1		-	3	
412	0	01	1	2	1		0	2	
413	3,000	01	1	2	1		2	2	
414	15,000	01	1	2	1		3	2	
~~414~~ 415									

Screening Data Sheet

Date [ ][ ][80] (1 2 3 4 5 6) Plant [ ][1] (7 8) Process Unit [ ][1] (9 10) Screening Team [1][1][2] (11 12 13) Instrument I.D. [ ][1] (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
416	0001	0	1	2	1		4	2	
417	0	01	1	2	1		0	1	
418	0	74	1	2	1		-	2	
419	0	10	1	2	1		0	2	
4210	0	01	1	2	1		0	2	
4211	0	74	1	2	1		-	2	
4212	0	01	1	2	1		0	2	

99

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
423	1000.01	1	1	1	1		4	2	
424	0	[illegible]	1	1	1		0	1	
425	1000	3	1	1	1		–	1	
426	1000.01	10	1	1	1		4	1	
427	0	01	1	1	1		0	2	
428	1000.01	10	1	1	1		4	1	
429	1000.01	10	1	1	1		2	2	
430	0	1	1	1	1		0	1	
431	0	01	1	1	1		0	2	
432	1000.01	21	1	1	1		4	1	

67

10-80-0083

Screening Data Sheet

Date 10 | 08 | 80 (1 2 3 4 5 6) Plant [ ] [1] (7 8) Process Unit [ ] [2] (9 10) Screening Team [3] [2] [1] (11 12 13) Instrument I.D. [ ] [2] (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
433	0	1	0	1	1		0	1	
434	0	1	1	1	1		0	2	
435	0	1	1	1	1		0	2	
436	0	1	0	1	1		0	1	
437	0	1	1	1	1		0	2	
438	100001	1	0	1	1		4	1	
439	1001	0	1	1	1		0	2	
440	0	1	0	1	1		0	2	
441	0	1	1	1	1		0	2	
442	100001	1	0	1	1		4	1	

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
443	0	1	1	1	1		0	2	
444	0	21	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
445	0	13	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
446	0	13	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
447	0	13	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
448	0	1	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
449	100001	01	1	1	1		0	2	100000 BACKGROUND
450	0	74	1	1	1		0	1	
451	0	1	1	1	1		0	1	
452	100001	01	1	1	1		4	2	LIQUID SERVICE WHEN OPERATING

10-80-0083

Screening Data Sheet

Date 10 09 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 2 2 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
453	0	1	1	1	1		0	2	
454	0	10	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING
455	0	12	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING
456	0	3	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
457	0	10	1	1	1		0	1	
458	0	1	1	1	1		0	2	
459	0	1	1	1	1		0	1	
4610	0	10	1	1	1		0	2	
461	200	10	1	1	1		0	2	
462	0	10	1	1	1		0	2	

70

10-80-0083

Screening Data Sheet

Date 10 09 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
463	100001	1	1	1	1		4	2	
464	0	13	1	1	1		0	2	
465	0	3	1	1	1		-	1	
466	100001	5	1	1	1		4	2	ONE INCH OPENING
467	0	1	1	1	1		0	1	
468	100001	10	1	1	1		4	1	
469	000001	10	1	1	1		4	2	
470	0	1	1	1	1		0	2	
471	100001	10	1	1	1		4	2	
472	0	1	1	1	1		0	1	

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
473	900000	10	1	1	1		3	1	
474	100001	10	1	1	1		4	1	
475	400	1	1	1	1		0	2	
476	6000	10	1	1	1		3	2	
477	0	1	1	1	1		0	1	
478	100001	22	1	1	1		0	5	MOTORIZED CONT PLUG
479	100001	1	1	1	1		4	2	
480	0	1	1	1	1		0	1	
481	100001	75	1	1	1		4	2	NEEDLE VALVE WITH SIDE VENT
482	100001	3	1	1	1		4	2	

10-80-0083

Screening Data Sheet

Date 10 04 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
483	0	10	1	1	1		0	2	
484	0	10	1	1	1		0	2	
485	0	1	1	1	1		0	1	
486	300	1	1	1	1		1	1	
487	100001	74	1	1	1		4	5	FO
488	100001	10	1	1	1		4	1	FO
489	0	1	1	1	1		0	2	
490	100001	10	1	1	1		4	1	FO
491	0	1	1	1	1		0	2	
492	0	10	1	1	1		0	2	

10-80-0083

Screening Data Sheet

Date 10 98 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
493	0	3	1	1	1		0	5	
494	0	10	1	1	1		0	2	
495	0	10	1		1		0	2	
496	0	1	1		1		0	2	
497	10000	74			1		–	2	INST BOX
498	———	10	1		1		0	2	HIGH BACKGROUND
499	———	10	1		1		0	2	HIGH BKGRND.
5010	0	1	1		1		0	2	
5011	10000	21	1		1		4	1	
502	10000	1	1		1		3	1	

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
503	0	1	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING
504	0	1	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING
505	0	13	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
506	15000	10	1	1	1		1	1	LIQUID SERVICE WHEN OPERATING
507	0	1	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING
508	0	10	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
509	0	3	1	1	1		–	2	LIQUID SERVICE WHEN OPERATING
510	0	10	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
511	0	13	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING
512	600	1	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING

10-80-0083

Screening Data Sheet

Date 10 28 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 7 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
513	0	14	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
514	0	1	1	1	1		0	2	LIQUID
515	0	13	1	1	1		0	1	LIQUID
516	0	3	1	1	1		-	1	LIQUID (SAME COMMENT)
517	0	13	1	1	1		0	1	LIQUID
518	0	1	1	1	1		0	0	LIQUID
519	0	12	1	1	1		0	1	LIQUID
520	200	1	1	1	1		0	1	LIQUID
521	0	12	1	1	1		0	1	LIQUID
522	5000	10	1	1	1		2	1	LIQUID

76

10-80-0083

Screening Data Sheet

Date 10/08/80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 321 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
523	0	13	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING
524	1500	1	1	1	1		2	1	LIQUID SERVICE WHEN OPERATING
525	4000	10	1	1	1		2	2	LIQUID SERVICE WHEN OPERATING
526	0	10	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING
527	0	10	1	1	1		0	2	GAS SERVICE WHEN OPERATING
528	0	1	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING
529	0	1	1	1	1		0	2	SIGHT GLASS
530	0	1	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING
531	0	74	1	1	1		0	5	LIQUID SERVICE WHEN OPERATING
532	0	1	1	1	1		0	2	LIQUID SERVICE WHEN OPERATING

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
533	0	1	1	1	1		0	2	
534	0	3	1	1	1		0	3	
535	300	1	1	1	1		0	2	
536	0	74	1	1	1		0	1	
537	0	1	1	1	1		0	2	
538	0	10	1	1	1		0	2	
539	0	10	1	1	1		0	2	
540	0	1	1	1	1		0	2	
541	0	10	1	1	1		0	2	
542	0	1	1	1	1		0	2	

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 2 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
543	100001	10	1	1	1		4	1	LIQUID SERVICE WHEN OPERATING
544	0	10	1	1	1		0	2	
545	0	1	1	1	1		0	1	
546	7,000	10	1	1	1		0	2	
547	0	1	1	1	1		0	1	
548	100001	74	1	1	1		4	5	
549	0	1	1	1	1		0	1	
550	3,000	74	1	1	1		–	5	
551	8,000	74	1	1	1		–	–	NO VENT
552									

79

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 2 3 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
552	0	10	1	1	1		0	2	
553	3000	74	1	1	1		0	5	
554	20000	74	1	1	1		0	2	
555	0	1	1	1	1		0	2	
556	200	11	1	1	1		0	1	
557	0	11	1	1	1		0	1	
558	0	74	1	1	1		0	5	
559	5000	74	1	1	1		0	1	
560	0	1	1	1	1		0	1	
561	2500	21	1	1	1		2	1	

80

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 2 3 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
562	5,000	10	1	1	1		0	2	
563	0	10	1	1	1		0	2	
564	4,000	10	1	1	1		0	2	
565	0	10	1	1	1		0	2	
566	0	3	1	1	1		0	5	
567	0	10	1	1	1		0	2	
568	0	10	1	1	1		0	2	
569	0	10	1	1	1		0	2	
570	0	3	1	1	1		0	2	
571	1,500	74	1	1	1		4	2	

10-80-0083

Screening Data Sheet

Date 10 98 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 2 3 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
572	600	74	1	1	1		4	2	
573	10000	74	1	1	1		0	2	F-O
574	100001	74	1	1	1		4	2	
575	10040	74	1	1	1		4	2	
576	100001	74	1	1	1		0	2	F.O
577	40000	10	1	1	1		4	2	
578	100001	74	1	1	1		4	2	VENT ON CONTROLLER
579	0	1	1	1	1		0	2	
580	200	11	1	1	1		0	1	
581	0	10	1	1	1		0	3	

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 3 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
582	600	10	1	1	1		0	3	
583	0	10	1		1		0	1	
584	0	10	1	1	1		0	1	
585	~~3000~~	1	1		1		0	1	HIGH BACKGROUND
586	0	10	1	1	1		0	1	
587	0	10	1	1	1		0	1	
588	0	03	1	1	1		0	1	
589	0	10	1	1	1		0	2	
590	0	3	1	1	1		0	5	
591	0	1	1	1	1	W	0	1	

10-80-0083

Screening Data Sheet

Date 9 05 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 2 3 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
592	0	1	1	1	1		0	2	
593	0	1	1				0	2	
594	70000	20	1		1		4	1	
595	0	20	1		1		0	1	
596	90000	20	1		1		—	1	
597	2000	11	1		1		0	3	
598	—	10	1		1		0	3	BACKGROUND HIGH
599	200	1	1		1		0	1	
600	0	1	1				0	1	
601	0	1	1				0	2	

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 2 3 1 (11 12 13) Instrument I.D. 2 (14 15)

16 Source I.D.	22 Screening Value	29 Source Type	31 Service	32 Material Code	36 Elevation	37 Accessibility	38 Soap Score	39 Orientation	40/60 Comments 59/79
602	0	1	1	1	1		0	1	
603	9900	3	1	1	1		1	3	
604	400	10	1	1	1		1	3	
605	1000001	10	1	1	1		4	1	
606	0	1	1	1	1		0	2	
607	0	1	1	1	1		0	1	
608	0	10	1	1	1		0	2	
609	800	1	1	1	1		0	2	
610	0	1	1	1	1		0	2	
611	1200	10	1	1	1		0	1	

10-80-0083

Screening Data Sheet

Date 10 09 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 2 3 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
612	0	1	1	1	1		0	1	
613	10000	1	1		1		4	2	MANWAY COVER
614	0	1	1		1		0	2	
615	0	1	1	1	1		0	2	
616	10000	20	1		1		4	2	FLAME OUT
617	0	12	1		1		0	2	
618	0	10	1		1		0	2	
619	10000	10	1	1	1		2	1	
6120	10000	20	1		1		4	2	
621	0	1	1		1		0	2	

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 2 3 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
622	10001	20	1	1	1		4	1	
623	2000	20	1	1	1		0	1	
624	1500	20	1	1	1		0	1	
625	400	10	1	1	1		03	2	
626	0	10	1	1	1		0	1	
627	0	10	1	1	1		0	1	
628	10001	74	1	1	1		1	1	
629	20000	5	1	1	1		1	2	
630	0	10	1	1	1		0	1	
631	0	10	1	1	1		0	1	

10-80-0083

Screening Data Sheet

Date 10 | 9 | 80 (1 2 3 4 5 6) Plant | 1 | (7 8) Process Unit | 2 | (9 10) Screening Team 2 | 3 | 1 | (11 12 13) Instrument I.D. | 2 | (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
632	7000	10	1	1	1		1	1	
633	6000	74	1	1	1		1	5	
634	400	1	1	1	1		0	2	
635	300	1	1	1	1		0	1	
636	2000	10	1	1	1		0	2	
637	0	12	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
638	0	10	1	1	1		0	1	LIQUID SERVICE WHEN OPERATING
639	500	10	1	1	1		0	1	
640	800	73	1	1	1		[illegible]	2	SEAL SIGHT GLASS
641	0	73	1	1	1		0	3	SEAL

10-80-0083

Screening Data Sheet

Date 10 | 08 | 80 (1 2 3 4 5 6) Plant | 1 | (7 8) Process Unit | 2 | (9 10) Screening Team 2 | 3 | 1 (11 12 13) Instrument I.D. | 2 | (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
642	35000	10	1	1	1		4	1	LIQUID SERVICE WHEN OPERATING
643	0	10	1	1	1		0	1	
644	1000	10	1	1	1		1	1	
645	30000	3	1	1	1		2	1	
646	0	12	1		1		0	3	
647	800	1	1	1	1		0	2	
648	0	13	1	1	1		0	3	
649	0	1	1	1	1		0	3	
6510	100001	73	1	1	1		4	2	
651	0	1	1	1	1		0	2	

10-80-0083

Screening Data Sheet

Date 10 | 08 | 80 (1 2 3 4 5 6) Plant | | 1 (7 8) Process Unit | | 2 (9 10) Screening Team 2 | 3 | 1 (11 12 13) Instrument I.D. | | 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
652	0	1	1	1	1		0	2	THERMOWELL
653	6000	10	1	1	1		3	1	
654	100001	10	1	1	1		4	1	
655	0	10	1	1	1		0	1	
656	0	1	1	1	1		0	1	
657	0	10	1	1	1		0	3	
~~656~~		74							WET
659	0	3	1	1	1		0	3	
660	0	16	1	1	1		0	1	
661	0	74	1	1	1		0	5	

06

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 2 (9 10) Screening Team 3 3 1 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
662	0	1	1	1	1		0	2	
663	15000	10	1	1	1		4	1	
664	0	74	1	1	1		0	1	
665	0	1	1	1	1		0	1	
6616	0	1	1	1	1		0	2	
6617	0	74	1	1	1		0	2	
6618	0	10	1	1	1		0	1	
6619	0	10	1	1	1		0	2	
670	2000	10	1	1	1		0	2	
671	0	1	1	1	1		0	2	

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 1 (9 10) Screening Team 1 2 3 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
672	1000001	5	1	6	2		0	5	PRESS/VAC RELIEF VAL VES
673	3000000	5	1	6	2		0	5	MAIN P/V RV
674	1000001	5	1	6	2		0	5	P/V RV
675	1000001	5	1	6	2		0	5	P/V RV, FLAMEOUT
676	7000000	5	1	6	2		0	5	P/V RV
677	1000001	5	1	6	2		0	5	P/V RV
678	—	5	1	6	2	1	0	5	MAIN P/V RV
679	7000000	5	1	2	2		0	5	P/V RV
680	1500000	5	1	2	2		0	5	P/V RV
681	1000001	5	1	2	2		0	5	P/V RV

Storage Tanks for Natural Gasoline and Hannah Lease Condensate

Start Unit 3

Wtd. Gasoline

Hannah Lease

92

10-80-0083

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 3 (9 10) Screening Team 1 2 3 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
682	5000	5	1	2	2		0	5	P/V RV
683	—	5	1	2	2	1	–	5	P/V RV
684	0	10	1	2	1		0	2	
685	0	10	1	2	1		0	2	
686	0	1	1	2	1		0	2	
687	0	10	1	2	1		0	1	
688	0	1	1	2	1		0	2	
689	0	21	1	2	1		0	1	
690	0	74	1	2	1		–	5	
691	0	1	1	2	1		0	2	

10-80-0083

Screening Data Sheet

Date 10 | 4 | 8 | 8 0 (1 2 3 4 5 6) Plant | 1 (7 8) Process Unit | 3 (9 10) Screening Team 1 | 2 | 3 (11 12 13) Instrument I.D. | 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
692	0	10	1	2	1		0	2	
693	0	10	1	2	1		0	2	
694	0	1	1	2	1		0	2	ORIFICE METER
695	0	10	1	2	1		0	3	
696	0	10	1	2	1		0	3	
697	0	1	1	2	1		0	2	
698	0	10	1	2	1		0	2	
699	0	10	1	2	1		0	2	
7010	0	10	1	2	1		0	2	
701	0	1	1	2	1		0	2	

10-80-0083

Screening Data Sheet

Date 04 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 3 (9 10) Screening Team 1 2 3 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
702	0	3	2	1	1		0	3	
703	0	10	2	1	1		0	1	
704	0	13	2	1	1		0	2	
705	0	13	2	1	1		0	3	
706	0	10	2	1	1		0	2	
707	0	3	2	1	1		0	2	
708	0	12	2	1	1		0	1	
709	0	1	2	1	1		0	2	
710	0	13	2	1	1		0	2	
711	0	3	2	1	1		—	5	

10-80-0083

Screening Data Sheet

Date 19 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 3 (9 10) Screening Team 1 2 3 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
713	0	13	2	3	1		0	1	
714	0	13	2	3	1		0	2	
715	0	5	1	2	1		—	1	
716	80	12	2	3	1		0	2	
717	150	10	1	2	1		0	2	
718	0	10	2	4	1		0	2	
719	50	10	1	2	1		0	2	
720	0	10	2	4	1		0	2	
721	0	12	2	4	1		0	1	
722	0	12	2	4	1		0	1	

10-80-0083

Screening Data Sheet

HP Sep. ≈ 300 psi.
LP Sep + GP ≈ 50 psi.

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 3 (9 10) Screening Team 1 2 3 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
723	0	13	1	2	1		0	1	
724	0	21	1	2	1		0	1	
725	0	13	1	2	1		0	1	
726	0	13	1	2	1		0	1	
727	0	11	1	2	1		0	2	
728	100001	10	1	2	1		4	2	
729	0	10	1	2	1		0	2	
730	0	11	1	2	1		0	1	
731	0	13	1	2	1		0	1	
732	6000	3	1	2	1		–	1	

10-80-0083

Mat Codes 1 = Crude oil
2 = Sales gas
3 = HP Sep. Liq.
4 = LP Sep. Liq.

Screening Data Sheet

Date 10 08 80 (1 2 3 4 5 6) Plant 1 (7 8) Process Unit 3 (9 10) Screening Team 1 2 3 (11 12 13) Instrument I.D. 2 (14 15)

Source I.D. (16)	Screening Value (22)	Source Type (29)	Service (31)	Material Code (32)	Elevation (36)	Accessibility (37)	Soap Score (38)	Orientation (39)	Comments (40/60 – 59/79)
783	0	13	2	1	1		0	2	
784	0	13	2	1	1		0	1	
785	0	12	2	1	1		0	2	
786	0	13	2	1	1		0	2	
787	0	3	2	1	1		–	3	
788	0	5	1	2	1		–	1	
789	0	13	2	3	1		0	1	
790	0	10	2	3	1		0	2	
791	0	10	2	3	1		0	2	
792	0	3	2	3	1		0	5	

10-80-0083

TABLE A-2

PROTOCOL FOR CODING
THE
SCREENING DATA SHEET

TABLE A-2. DATA CODING CONVENTIONS

Columns	Coding
1,2	Month (i.e., May = 05, October = 10)
3,4	Day of the month
5,6	Year (19 8 0)
7,8	A sequential identification number assigned to each plant.
9,10	An identification number for each process unit encountered. For example: let 01 = Gas Plant - Adsorption 02 = Gas Plant - Cryogenic etc.
11,12,13	A unique identification number assigned to each screening team. Each team member is assigned a personal ID number between 0 and 9. Column 11 will then contain the ID for the soap score reader, column 12 will be the OVA operator, and column 13 will be the data recorder.
14,15	A sequential ID number assigned to each instrument used. Outside documentation should then include: Instrument 1 = OVA #2158 Instrument 2 = OVA #1575 etc.
16 - 21	A sequential ID number for each source encountered. Start back at No. 1 for each new plant.
22 - 28	The instrument screening value in ppmv.
29,30	Source Type Code

Source	Code
Flange	1
Process drain	2
Open-end line	3
Agitator seal	4
Relief valve	5

TABLE A-2. DATA CODING CONVENTIONS (continued)

Columns	Coding		
29,30 (cont'd)		Source	Code
	Valves	Block valve - gate type	10
		Block valve - globe type	11
		Block valve - plug type	12
		Block valve - ball type	13
		Block valve - butterfly type	14
		Block valve - other types	15*
		Control valve - gate type	20
		Control valve - globe type	21
		Control valve - plug type	22
		Control valve - ball type	23
		Control valve - butterfly type	24
		Control valve - other types	25*
	On-line Pump Seals	Single, mechanical, emission point at seal	30
		Single, mechanical, emission point at vent	31
		Single, mechanical, other emission point	32*
		Double, mechanical, emission point at seal	33
		Double, mechanical, emission point at vent	34
		Double, mechanical, other emission point	35*
		Single, packed, emission point at seal	36
		Single, packed, emission point at vent	37
		Single, packed, other emission point	38*
		Sealless pumps	39*

*Explain in comment field.

TABLE A-2. DATA CODING CONVENTIONS (continued)

Columns	Coding		
29,30 (cont'd)		Source	Code
	Off-line Pump Seals	Single, mechanical, emission point at seal	40
		Single, mechanical, emission point at vent	41
		Single, mechanical, other emission point	42*
		Double, mechanical, emission point at seal	43
		Double, mechanical, emission point at vent	44
		Double, mechanical, other emission point	45*
		Single, packed, emission point at seal	46
		Single, packed, emission point at vent	47
		Single, packed, other emission point	48*
		Sealless pumps	49*
	On-line Compressor Seals	Single, mechanical, emission point at seal	50
		Single, mechanical, emission point at vent	51
		Single, mechanical, other emission point	52*
		Double, mechanical, emission point at seal	53
		Double, mechanical, emission point at vent	54
		Double, mechanical, other emission point	55*
		Single, packed, emission point at seal	56
		Single, packed, emission point at vent	57
		Single, packed, other emission point	58*
		Sealless compressors	59

*Explain in the comment field.

TABLE A-2. DATA CODING CONVENTIONS (continued)

Columns	Coding		
29,30 (cont'd)		Source	Code
	Off-line Compressor Seals	Single, mechanical, emission point at seal	60
		Single, mechanical, emission point at vent	61
		Single, mechanical, other emission point	62*
		Double, mechanical, emission point at seal	63
		Double, mechanical, emission point at vent	64
		Double, mechanical, other emission point	65*
		Single, packed, emission point at seal	66
		Single, packed, emission point at vent	67
		Single, packed, other emission point	68*
		Sealless compressors	69*
		Vacuum Breakers	70
		Expansion Joints	71
		Rupture Disks	72
		Sight Glass Seals	73
31	Service Code - 1 = Gas at Process Conditions; 2 = Light Liquids (naphthas and lighter with a vapor pressure $\geq$ 0.04 psi @ 20°C); 3 = Heavy Liquids (kerosene and less volatile liquids with a vapor pressure < 0.04 psi @ 20°C)		
32 - 35	Material Code - a unique sequential identification number for each new process stream encountered. The code should be explained on the "Material Coding Sheet" shown as Table A-3 The stream description should include information about specific components and their concentrations (i.e., de-propanizer overhead - 80% propane, 11% propylene, 3% ethane, 6% isobutane).		

*Explain in the comment field.

TABLE A-2. DATA CODING CONVENTIONS (continued)

Columns	Coding
36	Elevation Code - 0 = Below ground level (pits, etc.) 1 = Ground level 2 = 1st Platform above ground 3 = 2nd Platform above ground etc.
37	Accessibility Code - Blank = normal (easy) accessibility 1 = accessible with a free standing ladder or a minor amount of scaffolding 2 = accessible only with a crane, cherry picker, or major scaffolding 3 = physically accessible, but not safe to approach 4 = emission point inaccessible because it is hard piped to a control device 5 = shrouds or other safety devices prevent access to the seal area ? = Other codes may be assigned and documented in the field
38	Soap Score Code - 0 = No detectable bubbling during the six second observation period 1 = Zero to 1 cc total bubble volume in six seconds 2 = 1 cc to 10 cc per six seconds 3 = 10 cc to 100 cc per six seconds 4 = > 100 cc per six seconds, which is characterized by bubbles popping before the 6 second period is up and/or the soap solution being blown away from the seal area
39	Orientation Code - 1 = Horizontal seal interface (vertical-mounted valve) 2 = Vertical seal interface (horizontal-mounted valve) 3 = Diagonal seal interface 4 = Rotating seal, no soap score possible

TABLE A-2. DATA CODING CONVENTIONS (continued)

Columns	Coding
40 - 79	Comments - Free form alpha-numeric field which can be used to describe any significant information noted about the source, such as: VISIBLE LIQUID EMISSION, VISIBLE VAPOR EMISSION, HOT SOURCE, SOAP VAPORIZING, COLD SOURCE, ICE FORMING, SEAL AREA VENTED TO FLARE, SCREENED AT SEAL OIL VENT, etc.

TABLE A-3

MATERIAL CODING SHEETS

TABLE A-3. MATERIAL CODING SHEET

Plant ID 1 (1, 2), Process Unit ID 3 (3, 4) — Tank Battery

Stream Description	Code (5, 6, 7, 8)	
Inlet Oil – RVP ≈ 8+ lb.	1	VO
HP Sep. Gas – 90+ % CH_4 + C_2	2	Non
HP Sep. Liq. – RVP ≈ 8+ lb.	3	VO
LP Sep. Gas – 90+ % CH_4 + C_2	4	Non
LP Sep. Liq. RVP ≈ 8 lb.	5	VO
Comp. Disch – 90+ % CH_4, C_2	6	Non
Gas from Drier – 90+ % CH_4, C_2	7	Non
Water to Storage (LP Sep). –	8	Non

TABLE A-3. MATERIAL CODING SHEET

Absorption Unit C

Plant ID 1 (1, 2), Process Unit ID 2 (3, 4)

Stream Description	Code (5)	(6)	(7)	(8)	
Inlet Gas				1	Non
	13	14	15	16	
	21	22	23	24	
	29	30	31	32	
	37	38	39	40	
	45	46	47	48	
	53	54	55	56	
	61	62	63	64	
	69	70	71	72	
	77	78	79	80	

TABLE A-3. MATERIAL CODING SHEET

Adsorption Unit A

Plant ID 1 , Process Unit ID 1

Mol. %

Stream Description	Code				
Raw Gas – 93% CH_4, 3% C_2, 1% C_3, 0.5% C_4, 0.73% C_5+, 1.8% CO_2+N_2	5	6	7	1 (8)	Non
Product Gas – 94% CH_4, 3% C_2, 1% C_3, 0.5% C_4, C_5+ 0.3%, 1.2% CO_2+N_2	13	14	15	2 (16)	Non
VOC ✓ Regeneration Gas – [redacted]	21	22	23	3 (24)	VOC
HP Separator Gas –	29	30	31	4 (32)	VOC
✓ HP Separator Liquid – Natural Gasoline 45% C_7+, C_6 ≈ 15%, C_5 = 4.5% + some LPG – C_4 = 2.5%, C_3 = 2.4, C_2 = 5.5 C_1 = 22%	37	38	39	5 (40)	VOC
✓ LP Separator Gas – CH_4 ≈ 70%, C_2 = 8% C_3 = 6%, C_4 = 6%, C_5 = 10%	45	46	47	6 (48)	VOC
✓ LP Separator Liquid – Natural Gasoline ≈ 7.3 RVP	53	54	55	7 (56)	VOC
"Drip" Condensate from Inlet Gas ≈ 7 RVP	61	62	63	8 (64)	VOC
	69	70	71	72	
	77	78	79	80	

TABLE A-4

QA/QC DATA

CALIBRATION CHECKING FORM

1 Month	3 Day	5 Instrument	6 Screening Team	8 Low standard 124 ppm calibration	14 High standard 1000 ppm calibration	20 Dilution Probe Calibration	
10	06	1	02	000300	007000		1
10	06	1	02	000460	007900	000800	1
10	07	1	02	000650	008200	000800	1
10	08	2	02	000490	008500	000850	1

Comments: _____

_____

_____

_____

Plant 1

TABLE 7-2

REPEAT SCREENING FORM

1 Month	3 Day	5 Screening Team	7 Instrument	8 Process Unit	10 Source ID	15 Screening Value	22 Ambient Air PF	25 Rescreening Value No. 1	32 Rescreening Value No. 2
10	07	12	1	1	35	0	111	0	0
10	07	12	1	1	97	15000	444	9000	30000
10	07	12	1	1	163	100001	344	100001	100001
10	08	23	2	1	35	250	111	300	240
10	08	23	2	1	97	100001	444	100001	100001
10	08	23	2	1	163	100001	222	45000	100001

Comments: _____