Attachment 1

South Coast Air Quality Management District

Air Quality Notification Report

Notification 60701

Receive By: MICHAELS on 10/23/2003 17:12:26
Assign By: michaels on 10/23/2003 17:19:41
Dispatch On: 10/23/2003
Team: C
Activity: BREAKDOWN INVESTIGATION
Instruction:

Assignment No: 791245 Inspection Date:
Inspector: ZBIGNIEW P SZYMANSKI (ZS01)
Disposition:

Description: REFINERY FLARES: STEAM OUTAGE. LOST BOILER TO COGEN.

Instance Start Date: 10/23/2003 16:25 Instance End Date:

Notifier

STEVE Last Name: MALLON

(310)952-6213 (Work)

Site Location

Facility: 800363 CONOCOPHILLIPS COMPANY
Address: 1660 W ANAHEIM ST, WILMINGTON, CA 90744 (Sector LK)

Inspector Comment

10/23/03
17:55 hrs.
Following a citizen complaint I arrived at the gate of ConocoPhillips.I observed a heavy flaring associated with a black smoke at Ringelman 5 from the refinery flare system.
I contacted Mr. Brian Christlib, Environmental Engineer. He advised me that the refinery lost the Cogeneration Unit. The cause is under investigation.
Due to a safety, I decided to not enter the refinery, and to be on stand by in case of complaints.
18:15 hrs.
I spoke to Mr. Camelieri, the Shift Supervisor. He advised that the refinery lost also Boiler # 4 and 7.
I observed also heavy flaring from the South Flare.
19:15 hrs.
Mr. Camelieri advised me that boilers 4,7,8 were in the process of start-up

19:30 - 20:30 hrs.
Assisted by other inspectors from the refinery section I conducted an odor patrol downwind of the refinery. I utilized a TVA to measure VOC concentration in the air. We did not detect any offensive odors or elevated VOC concentration.
21:30 hrs.
I departed the refinery.

10/31/03
I spoke over a phone to Mr. Steve Mallon, Environmental Engineer.
He advised me that the root cause of the problem was in logic input PIC126, which had caused an auxiliary steam header valve to close, which caused to overpressure the steam header, and lifting relief valves on the Boiler 8 and Cogen Steam drums.
The upset in the steam production system resulted in problems in FCCU's Wet Gas Compressor, which directed gases to the North Flare.

It was a valid breakdown.

INSPECTOR: _____ DATE: _____
signature

SUPERVISOR: _____ DATE: _____
signature

South Coast Air Quality Management District

Air Quality Complaint Report

Complaint 163387

Receive By: YOLANDAM on 10/23/2003 18:30:04
Assign By: michaels on 10/23/2003 18:31:16
Dispatch On: 10/23/2003
Team: C
Type: SMOKE
Description: HEAVY SMOKE

Assignment No: 791246
Inspector: ZACHARIE T MUEPO (ZM01)
Instruction:

Instance Start Date:

Instance End Date:

Complainant

First Name: [redacted] Last Name: [redacted]
Address: [redacted]
Phone: [redacted]

Alleged Source

Name: TOSCO
Address: / UNK, WILMINGTON, CA 90748 (Sector LK)

Actual Source

Name: CONOCOPHILLIPS COMPANY ID: 800363
Address: 1660 W ANAHEIM ST, WILMINGTON, CA 90744 (Sector LK)

Disposition

OC on 10/31/2003 16:30:23

Inspector Comment

I spoke with [redacted] by telephone. [redacted] was complaining only about the visible emissions and did not smell any odors at this time. [redacted] also said that he observed ashes in the soccer field. I explained the cause of the smoke and also explained AQMD policies and procedures. For more information on the smoke see notification 60701. An inspection of the soccer field on Lomita and Figueroa did not result in a determination of ash from the Connoc Phillips incident because ash from the forest fires was numerous.

INSPECTOR: signature _____ DATE: _____

SUPERVISOR: signature _____ DATE: _____

CONOCOPHILLIPS COMPANY
LOS ANGELES REFINERY, WILMINGTON PLANT
SOUTH FLARE

Reporting Period: **October 1, 2003 - December 31, 2003**

Flaring Event Data

Event Start Date	Event Start Time	Event End Date	Event End Time	Average Vent Gas Flow Rate (SCFM)	Higher Heating Value (BTU/SCF)	HHV Basis	Sulfur Content (PPM as H2S)	Sulfur Basis	Total Event Flow (MSCF)
10/12/2003	4:30	10/12/2003	5:05	2000	1286	Meth 3588-91	5536	Meth 307-91	70
10/23/2003	17:45	10/23/2003	19:55	2500	1105	Meth 3588-91	4560	Meth 307-91	325
10/27/2003	4:00	10/27/2003	6:32	1400	1119	Meth 3588-91	2121	Meth 307-91	213
10/31/2003	10:37	10/31/2003	13:30	1050	116	Meth 3588-91	3881	Meth 307-91	182
12/18/2003	12:30	12/18/2003	12:58		2254	Estimation	6940	Estimation	45

DAILY EMISSIONS FROM FLARES

	EMISSIONS (LBS)					Total Gas Flow	HHV	Sulfur ppmv
Date	PM	NOX	ROG	CO	SOX as SO2	MSCF		
10/1/2003	12.2	87.3	80.8	474.8	1009.5	582	2205	10436
10/2/2003	12.7	89.6	83.0	487.7	898.0	604	2182	8946
10/3/2003	14.5	101.6	94.1	552.9	857.5	692	2160	7456
10/4/2003	21.1	146.0	135.3	794.6	996.5	1005	2137	5966
10/5/2003	20.7	141.6	131.2	770.5	732.8	985.0	2114	4476
10/6/2003	21.0	142.2	131.8	773.8	496.3	1000.0	2091	2986
10/7/2003	21.0	140.7	130.3	765.4	248.6	1000.0	2069	1496
10/8/2003	21.0	139.1	128.9	757.0	1.0	1000.0	2046	6
10/9/2003	19.4	116.7	108.2	635.2	213.5	925.0	1856	1389
10/10/2003	20.7	111.6	103.4	607.2	453.6	985.0	1666	2771
10/11/2003	21.0	100.4	93.0	546.1	690.3	1000.0	1476	4154
10/12/2003	20.4	84.8	78.6	461.5	892.5	970.0	1286	5538
10/13/2003	20.5	86.5	80.2	470.8	460.7	975.0	1305	2843
10/14/2003	19.7	84.6	78.4	460.5	23.4	940.0	1324	150
10/15/2003	21.0	95.7	88.6	520.6	112.8	1000.0	1407	678
10/16/2003	22.1	106.4	98.6	578.9	210.6	1050.0	1490	1207
10/17/2003	22.1	112.3	104.1	611.1	302.8	1050.0	1573	1735
10/18/2003	21.0	112.6	104.3	612.7	376.2	1000.0	1656	2264
10/19/2003	21.5	121.2	112.3	659.5	475.7	1025.0	1739	2792
10/20/2003	21.4	126.4	117.1	687.6	562.9	1020.0	1822	3321
10/21/2003	22.9	141.2	130.8	768.3	697.3	1090.0	1905	3849
10/22/2003	20.8	90.3	83.6	491.2	1266.4	990.0	1341	7697
10/23/2003	21.5	77.0	71.4	419.1	776.8	1025.0	1105	4560
10/24/2003	19.3	72.7	67.3	395.4	438.1	920.0	1162	2865
10/25/2003	21.5	84.9	78.7	461.9	199.3	1025.0	1218	1170
10/26/2003	18.7	70.6	65.4	384.4	243.1	889.0	1169	1646
10/27/2003	22.8	82.8	76.7	450.5	383.5	1088.0	1119	2121
10/28/2003	21.8	94.9	88.0	516.6	245.2	1038.0	1345	1422
10/29/2003	19.3	98.1	90.9	533.6	110.2	918.0	1571	722
10/30/2003	20.2	55.1	51.0	299.6	367.2	960.0	844	2302
10/31/2003	18.1	6.8	6.3	36.9	554.7	860.0	116	3881
11/1/2003	20.0	20.1	18.6	109.5	619.1	950.0	311	3921
11/2/2003	21.5	35.3	32.7	192.2	674.8	1025.0	507	3961
11/3/2003	19.7	44.9	41.6	244.2	625.2	940.0	702	4002
11/4/2003	20.0	58.0	53.7	315.5	638.2	950.0	898	4042
11/5/2003	21.0	74.3	68.9	404.4	678.4	1000.0	1093	4082
11/6/2003	21.8	81.9	75.9	445.8	890.9	1040.0	1158	5154
11/7/2003	22.6	89.5	82.9	486.8	1112.5	1075.0	1224	6227
11/8/2003	20.2	84.2	78.0	458.0	1164.6	960.0	1289	7299
11/9/2003	21.0	92.1	85.3	501.2	1391.4	1000.0	1355	8372
11/10/2003	20.7	95.1	88.1	517.6	1546.1	985.0	1420	9444
11/11/2003	21.0	101.0	93.6	549.7	1747.9	1000.0	1486	10517
11/12/2003	20.8	104.4	96.7	568.1	1906.8	990.0	1551	11589
11/13/2003	21.5	104.8	97.1	570.4	2045.2	1025.0	1504	12006
11/14/2003	21.6	102.0	94.5	555.3	2126.5	1030.0	1457	12422
11/15/2003	21.0	95.9	88.8	521.7	2133.8	1000.0	1410	12839
11/16/2003	21.2	93.6	86.7	509.4	2225.1	1010.0	1363	13255
11/17/2003	21.8	93.1	86.2	506.4	2363.2	1040.0	1316	13672
11/18/2003	22.8	93.6	86.7	509.4	2540.5	1085.0	1269	14088
11/19/2003	20.2	79.8	73.9	434.1	2314.3	960.0	1222	14505
11/20/2003	22.3	91.6	84.8	498.3	2428.2	1060.0	1270	13783
11/21/2003	21.6	92.4	85.6	502.6	2235.9	1030.0	1319	13061
11/22/2003	21.4	94.8	87.9	516.0	2091.8	1020.0	1367	12339
11/23/2003	22.3	102.0	94.5	555.2	2046.7	1060.0	1416	11618
11/24/2003	21.3	101.1	93.6	549.9	1838.0	1015.0	1464	10896
11/25/2003	23.1	113.1	104.8	615.6	1860.0	1100.0	1513	10174
11/26/2003	22.5	113.6	105.2	618.0	1680.9	1070.0	1561	9452
11/27/2003	21.0	103.8	96.1	564.6	1554.1	1000.0	1526	9351
11/28/2003	20.8	100.4	93.0	546.2	1521.9	990.0	1491	9250
11/29/2003	21.0	99.0	91.7	538.8	1520.5	1000.0	1456	9149
11/30/2003	22.9	105.3	97.6	573.2	1639.0	1090.0	1421	9047
12/1/2003	21.8	98.0	90.8	533.5	1546.3	1040.0	1386	8946
12/2/2003	22.7	99.2	92.0	540.0	1587.7	1080.0	1351	8845
12/3/2003	22.4	95.3	88.3	518.8	1547.7	1065.0	1317	8744
12/4/2003	22.3	92.4	85.6	502.6	1522.6	1060.0	1282	8643
12/5/2003	22.1	89.0	82.5	484.3	1490.6	1050.0	1247	8542
12/6/2003	21.6	84.9	78.6	461.8	1444.9	1030.0	1212	8441
12/7/2003	20.8	79.2	73.4	431.1	1372.2	990.0	1177	8339
12/8/2003	21.8	80.8	74.8	439.4	1424.0	1040.0	1142	8238
12/9/2003	22.5	80.5	74.6	438.2	1447.1	1070.0	1107	8137

12/10/2003	22.1	76.5	70.9	416.5	1402.4	1050.0	1072	8036
12/11/2003	19.5	77.6	71.8	422.0	1219.4	930.0	1226	7889
12/12/2003	22.1	98.6	91.3	536.4	1351.1	1050.0	1381	7742
12/13/2003	23.1	114.8	106.4	624.7	1388.5	1100.0	1535	7595
12/14/2003	22.3	121.8	112.8	662.5	1312.1	1060.0	1689	7448
12/15/2003	22.3	132.9	123.1	723.0	1286.2	1060.0	1843	7301
12/16/2003	21.0	135.8	125.9	739.2	1189.0	1000.0	1998	7154
12/17/2003	20.6	143.4	132.9	780.3	1141.3	980.0	2152	7007
12/18/2003	22.9	167.1	154.8	909.0	1257.3	1090.0	2254	6940
12/19/2003	21.5	164.2	152.1	893.5	1170.9	1025.0	2356	6874
12/20/2003	21.0	167.1	154.9	909.5	1131.3	1000.0	2458	6807
12/21/2003	22.6	187.1	173.4	1018.2	1204.2	1075.0	2560	6740
12/22/2003	21.6	186.4	172.7	1014.5	1142.4	1030.0	2662	6673
12/23/2003	21.0	188.0	174.1	1022.7	1098.0	1000.0	2764	6607
12/24/2003	20.8	192.9	178.8	1049.8	1076.1	990.0	2866	6540
12/25/2003	18.3	160.7	148.8	874.1	1006.1	870.0	2716	6958
12/26/2003	20.5	170.1	157.6	925.4	1195.3	975.0	2565	7377
12/27/2003	22.6	176.5	163.5	960.5	1392.7	1075.0	2415	7795
12/28/2003	22.9	167.8	155.5	913.2	1487.9	1090.0	2264	8213
12/29/2003	22.6	154.5	143.2	840.8	1542.1	1075.0	2114	8631
12/30/2003	22.7	144.2	133.6	784.6	1624.4	1080	1963	9050
12/31/2003	22.6	132.5	122.8	721.1	1691.6	1075	1813	9468
Sum for Quart	1937	9843	9119	53555	106152	92216		
Pilot/Purge Ga	7.1	657.2	15.2	161.8	237.6	1551		
Quarter Total	**1944**	**10500**	**9134**	**53717**	**106390**	**93767**		
Average Daily	**21.4**	**115.4**	**100.4**	**590.3**	**1169.1**	**1030.4**		

CONOCOPHILLIPS COMPANY
LOS ANGELES REFINERY, WILMINGTON PLANT
SOUTH FLARE

Monitor System: System Downtime

Breakdowns and unplanned Maintenance

Start (Date/Time)	End (Date/Time)	Hours Offline	Explanation
None			
Total time for quarter		0:00:00	hours

Planned Maintenance

Start (Date/Time)	End (Date/Time)	Hours Offline	Explanation
None			
Total time for quarter		0:00:00	hours

Recordable events with no samples collected

Start Date	Start Time	End Date	End Time	Source	Explanation
None					

Assumptions:

Criteria pollutants were calculated using interpolated sample results for days with low activity and no sample.

For days that had one or more flare events the lab results or estimations were used as representative for the enitre day. This results is some over estimation and will be refined to be more representative in future reports.

Sulfur content and Higher heating value were estimated for events that did not have sample results available.

The estimates were calculated per the Rule 1118 Plan using results from similar events and similar time frames.

Estimates for unknown sources were calculated from event information during a similar time frame.

No sample required for Events with duration of 30 minutes or less per Rule 1118.

CONOCOPHILLIPS COMPANY
LOS ANGELES REFINERY, WILMINGTON PLANT
NORTH FLARE

Reporting Period: October 1, 2003 - December 31, 2003

Flaring Event Data

Event Start Date	Event Start Time	Event End Date	Event End Time	Average Vent Gas Flow Rate (SCFM)	Higher Heating Value (BTU/SCF)	HHV Basis	Sulfur Content (PPM as H2S)	Sulfur Basis	Total Event Flow (MSCF)
10/1/2003	8:54	10/1/2003	10:33	510	1678	Meth 3588-91	2	Meth 307-91	50
10/7/2003	19:14	10/7/2003	19:46	620	1151	Meth 3588-91	10	Meth 307-91	20
10/10/2003	7:57	10/10/2003	12:55	600	2090	Meth 3588-91	5	Meth 307-91	179
10/12/2003	3:29	10/12/2003	4:14	800	1888	Meth 3588-91	18	Meth 307-91	36
10/12/2003	12:26	10/12/2003	15:25	575	1888	Estimation	18	Estimation	103
10/20/2003	8:43	10/20/2003	12:44	725	2097	Meth 3588-91	39	Meth 307-91	175
10/21/2003	9:50	10/21/2003	13:30	650	2745	Meth 3588-91	5	Meth 307-91	143
10/21/2003	20:13	10/21/2003	20:50	560	2222	Meth 3588-91	7	Meth 307-91	21
10/23/2003	16:11	10/23/2003	20:52	7400	1769	Meth 3588-91	8	Meth 307-91	2079
10/25/2003	21:15	10/25/2003	22:16	1100	1426	Meth 3588-91	4	Meth 307-91	67
10/25/2003	23:23	10/25/2003	23:59	1450	1414	Meth 3588-91	5	Meth 307-91	52
10/26/2003	0:00	10/26/2003	6:08	1100	1414	Meth 3588-91	5	Meth 307-91	405
10/26/2003	13:28	10/26/2003	19:29	500	1774	Meth 3588-91	5	Meth 307-91	181
10/27/2003	3:13	10/27/2003	5:50	400	1555	Meth 3588-91	243	Meth 307-91	63
11/2/2003	21:21	11/2/2003	23:51	825	973	Meth 3588-91	31	Meth 307-91	124
11/18/2003	22:29	11/18/2003	22:54	2700	1307	Meth 3588-91	9	Meth 307-91	67
11/19/2003	10:30	11/19/2003	12:46	1400	1737	Meth 3588-91	7	Meth 307-91	190
11/19/2003	16:06	11/19/2003	23:20	1300	1747	Meth 3588-91	8	Meth 307-91	564
11/21/2003	1:41	11/21/2003	2:35	1500	1472	Meth 3588-91	5	Meth 307-91	81
11/22/2003	8:10	11/22/2003	8:59	700	1571	Meth 3588-91	3	Meth 307-91	34
11/23/2003	9:43	11/23/2003	11:06	775	1480	Meth 3588-91	4	Meth 307-91	66
12/3/2003	16:28	12/3/2003	16:59	500	1322	Meth 3588-91	64	Meth 307-91	16
12/3/2003	21:48	12/3/2003	22:48	1700	1379	Meth 3588-91	74	Meth 307-91	102
12/23/2003	0:14	12/23/2003	8:40	575	3486	Meth 3588-91	116	Meth 307-91	291
12/24/2003	17:00	12/24/2003	23:59	1000	3102	Meth 3588-91	4	Meth 307-91	419
12/25/2003	0:00	12/25/2003	4:44	600	3102	Meth 3588-91	4	Meth 307-91	170
12/30/2003	20:48	12/30/2003	22:59	750	3528	Meth 3588-91	204	Meth 307-91	98

DAILY EMISSIONS FROM FLARES

	EMISSIONS (LBS)					Total Gas Flow	HHV	Sulfur ppmv
Date	PM	NOX	ROG	CO	SOX as SO2	MSCF		
10/1/2003	1.4	6.6	6.1	35.9	0.0	64.5	1505	4
10/2/2003	0.1	0.6	0.5	3.1	0.1	5.3	1586	101
10/3/2003	0.1	0.6	0.6	3.4	0.2	5.5	1668	198
10/4/2003	1.8	10.2	9.5	55.5	4.2	85.7	1750	295
10/5/2003	0.0	0.1	0.1	0.8	0.1	1.2	1832	391
10/6/2003	0.4	2.2	2.0	12.0	1.4	16.9	1914	488
10/7/2003	0.9	5.7	5.3	31.0	4.1	42.0	1996	585
10/8/2003	0.2	0.7	0.7	3.8	0.0	9.0	1151	10
10/9/2003	0.2	1.6	1.4	8.4	0.0	11.1	2054	11
10/10/2003	3.8	25.7	23.8	140.0	0.2	181.1	2090	5
10/11/2003	0.3	1.7	1.6	9.3	0.0	12.6	1989	11
10/12/2003	5.2	31.8	29.5	173.2	0.7	248.0	1888	18
10/13/2003	0.6	3.0	2.8	16.2	0.3	30.0	1460	63
10/14/2003	0.1	0.3	0.3	1.6	0.1	4.3	1031	108
10/15/2003	0.3	1.3	1.2	7.2	0.3	16.0	1209	97
10/16/2003	0.7	3.0	2.8	16.4	0.5	32.0	1386	85
10/17/2003	0.3	1.4	1.3	7.8	0.2	13.4	1564	74
10/18/2003	0.4	2.2	2.0	11.8	0.2	18.3	1742	62
10/19/2003	0.3	1.6	1.5	8.9	0.1	12.5	1919	51
10/20/2003	5.2	35.0	32.4	190.5	1.6	245.6	2097	39
10/21/2003	4.3	34.9	32.3	189.8	0.2	206.5	2484	6
10/22/2003	2.2	15.7	14.5	85.2	0.3	104.7	2200	15
10/23/2003	48.5	277.8	257.3	1511.3	3.1	2309.0	1769	8
10/24/2003	**1.1**	**5.9**	**5.5**	32.2	0.1	**54.4**	**1598**	**6**
10/25/2003	**4.1**	**19.1**	**17.7**	103.7	0.1	**196.5**	**1426**	**4**
10/26/2003	**14.6**	**75.4**	**69.9**	410.3	0.6	**695.7**	**1594**	**5**
10/27/2003	**2.7**	**13.1**	**12.1**	71.0	2.7	**129.3**	**1485**	**126**
10/28/2003	**0.6**	**2.6**	**2.4**	14.0	0.3	**27.3**	**1382**	**65**
10/29/2003	**0.1**	**0.3**	**0.3**	1.7	0.0	**3.5**	**1279**	**4**
10/30/2003	**0.2**	**0.7**	**0.7**	3.9	0.0	**8.8**	**1202**	**11**
10/31/2003	**0.3**	**1.3**	**1.2**	6.8	0.0	**16.4**	**1126**	**18**
11/1/2003	**0.3**	**1.1**	**1.1**	6.2	0.1	**16.1**	**1049**	**24**
11/2/2003	**3.1**	**9.8**	**9.1**	53.2	0.8	**147.8**	**973**	**31**
11/3/2003	**0.4**	**1.4**	**1.3**	7.7	0.1	**17.1**	**1215**	**22**
11/4/2003	**0.3**	**1.2**	**1.2**	6.8	0.0	**12.6**	**1457**	**13**

11/5/2003	0.6	3.0	2.8	16.5	0.0	26.3	1699	4
11/6/2003	0.6	3.1	2.9	17.1	0.0	27.7	1670	5
11/7/2003	0.5	2.7	2.5	14.8	0.0	24.3	1641	6
11/8/2003	0.1	0.3	0.3	1.7	0.0	2.9	1612	7
11/9/2003	0.2	1.3	1.2	7.0	0.0	11.9	1584	9
11/10/2003	0.3	1.3	1.2	7.2	0.0	12.6	1555	10
11/11/2003	0.2	1.0	1.0	5.6	0.0	10.0	1526	11
11/12/2003	0.2	1.1	1.0	5.8	0.0	10.5	1498	12
11/13/2003	0.2	1.0	1.0	5.6	0.0	10.3	1466	12
11/14/2003	1.2	5.7	5.3	31.1	0.1	58.6	1434	11
11/15/2003	0.1	0.6	0.6	3.3	0.0	6.3	1402	11
11/16/2003	0.3	1.1	1.0	6.1	0.0	12.1	1370	10
11/17/2003	1.3	5.6	5.2	30.7	0.1	61.9	1338	10
11/18/2003	1.6	6.6	6.1	35.8	0.1	74.0	1307	9
11/19/2003	17.3	97.4	90.3	530.1	1.0	822.4	1742	7
11/20/2003	1.0	5.2	4.8	28.4	0.0	47.7	1607	6
11/21/2003	2.5	11.8	10.9	64.1	0.1	117.7	1472	5
11/22/2003	1.1	5.7	5.3	31.2	0.0	53.7	1571	3
11/23/2003	1.8	8.6	7.9	46.7	0.1	85.2	1480	4
11/24/2003	0.1	0.3	0.2	1.4	0.0	2.8	1329	3
11/25/2003	1.5	5.6	5.2	30.3	0.0	69.5	1177	3
11/26/2003	0.6	2.0	1.9	11.1	0.0	29.3	1026	2
11/27/2003	0.6	2.2	2.0	12.0	0.1	29.9	1087	13
11/28/2003	0.5	2.0	1.9	11.0	0.1	25.9	1147	23
11/29/2003	0.6	2.3	2.1	12.3	0.2	27.5	1208	34
11/30/2003	1.3	5.5	5.1	29.8	0.5	63.6	1268	45
12/1/2003	1.0	4.5	4.2	24.4	0.5	49.6	1329	56
12/2/2003	3.0	13.7	12.7	74.4	1.6	144.7	1389	66
12/3/2003	5.6	26.4	24.5	143.9	3.4	268.2	1450	77
12/4/2003	2.8	13.2	12.3	72.0	1.5	132.3	1470	69
12/5/2003	0.7	3.2	3.0	17.6	0.3	31.9	1491	62
12/6/2003	0.2	0.8	0.8	4.5	0.1	8.1	1511	54
12/7/2003	0.1	0.7	0.7	4.0	0.1	7.1	1532	46
12/8/2003	0.7	3.5	3.3	19.3	0.2	33.6	1552	39
12/9/2003	1.6	8.0	7.4	43.7	0.4	75.1	1573	31
12/10/2003	0.9	4.7	4.4	25.6	0.2	43.5	1593	24
12/11/2003	1.0	5.4	5.0	29.2	0.2	47.0	1678	26
12/12/2003	1.1	6.1	5.7	33.2	0.2	50.9	1763	28
12/13/2003	0.9	5.6	5.2	30.3	0.2	44.3	1848	30
12/14/2003	2.5	15.8	14.6	85.7	0.6	119.8	1934	32
12/15/2003	2.0	13.2	12.2	71.7	0.5	95.9	2019	34
12/16/2003	2.4	16.4	15.2	89.1	0.7	114.5	2104	36
12/17/2003	0.6	4.4	4.1	24.1	0.2	29.7	2189	38
12/18/2003	0.8	6.4	6.0	35.0	0.3	39.4	2399	49
12/19/2003	0.6	4.7	4.4	25.6	0.3	26.5	2609	61
12/20/2003	0.3	2.8	2.6	15.1	0.2	14.5	2819	72
12/21/2003	0.4	4.2	3.9	23.0	0.3	20.5	3028	84
12/22/2003	1.0	10.3	9.5	56.1	0.7	46.8	3238	95
12/23/2003	8.6	96.2	89.1	523.5	7.3	410.4	3448	107
12/24/2003	10.4	105.2	97.5	572.5	4.4	495.1	3125	53
12/25/2003	6.1	63.3	58.7	344.6	3.8	291.8	3192	78
12/26/2003	0.5	5.2	4.8	28.5	0.4	23.6	3259	103
12/27/2003	2.7	29.2	27.1	159.1	2.8	129.3	3327	129
12/28/2003	1.4	14.9	13.8	81.1	1.6	64.6	3394	154
12/29/2003	1.1	12.7	11.8	69.1	1.6	54.0	3461	179
12/30/2003	2.5	28.0	26.0	152.6	4.0	116.9	3528	204
12/31/2003	0.6	5.9	5.4	31.9	1.0	27.8	3103	224
Sum for Quarte	205	1314	1217	7148	65	9783		
Pilot/Purge Gas	6.6	302.4	9.2	76.1	84.1	1092		
Quarter Total	212	1616	1226	7224	149	10875		
Average Daily	2.3	17.8	13.5	79.4	1.6	119.5		

Mean	0.7	4.7	4.4	25.6	0.2	33.6
Average	2.3	14.4	13.3	78.2	0.7	107.2
Std Dev	5.7	34.6	32.1	188.4	1.3	269.1
Max	48.5	277.8	257.3	1511.3	7.3	2309.0
Ave+3 sd	19.2	118.2	109.5	643.3	4.6	914.

CONOCOPHILLIPS COMPANY
LOS ANGELES REFINERY, WILMINGTOI
NORTH FLARE

Monitor System: System Downtime

Breakdowns and unplanned Maintenance

Start (Date/Time)	End (Date/Time)	Hours Offline
None		
Total time for quarter		0:00:00

Planned Maintenance

Start (Date/Time)	End (Date/Time)	Hours Offline
None		
Total time for quarter		0:00:00

Recordable events with no samples collected

Start Date	Start Time	End Date	End Time
None			

Assumptions:

Criteria pollutants were calculated using interpolated sample results for days with low activity and no sample.
For days that had one or more flare events the lab results or estimations were used as representative
for the enitre day. This results is some over estimation and will be refined to be more representative in future report

Sulfur content and Higher heating value were estimated for events that did not have sample results available.
The estimates were calculated per the Rule 1118 Plan using results from similar events and similar time frames.

Estimates for unknown sources were calculated from event information during a similar time frame

CONOCOPHILLIPS COMPANY
LOS ANGELES REFINERY, WILMINGTON PLANT
LPG FLARE

Reporting Period: October 1, 2003 - December 31, 2003

Flaring Event Data Clean Service Flare Sampling NOT Required

Event Start (Date/Time)	Event End (Date/Time)	Average Vent Gas Flow Rate (SCFM)	Higher Heating Value (BTU/SCF)	HHV Basis	Sulfur Content (PPM as H2S)	Sulfur Basis
None	None	NA	NA	NA	NA	NA

EMISSIONS FROM FLARES

	EMISSIONS (LBS)					Total Gas Flow
Date	PM	NOX	ROG	CO	SOX as SO2	MSCFD
10/1/2003	0.2	19.9	0.5	4.9	7.2	47
10/2/2003	0.1	11.4	0.3	2.8	4.1	27
10/3/2003	0.1	7.2	0.2	1.8	2.6	17
10/4/2003	0.1	4.7	0.1	1.1	1.7	11.0
10/5/2003	0.1	5.0	0.1	1.2	1.8	11.7
10/6/2003	0.1	9.1	0.2	2.2	3.3	21.4
10/7/2003	0.1	12.9	0.3	3.2	4.7	30.5
10/8/2003	0.1	10.0	0.2	2.5	3.6	23.6
10/9/2003	0.1	5.0	0.1	1.2	1.8	11.7
10/10/2003	0.0	4.4	0.1	1.1	1.6	10.4
10/11/2003	0.1	6.5	0.2	1.6	2.4	15.4
10/12/2003	0.1	7.6	0.2	1.9	2.8	18
10/13/2003	0.1	7.6	0.2	1.9	2.8	18.0
10/14/2003	0.0	3.8	0.1	0.9	1.4	9.0
10/15/2003	0.1	6.4	0.1	1.6	2.3	15.0
10/16/2003	0.1	12.2	0.3	3.0	4.4	28.8
10/17/2003	0.1	11.9	0.3	2.9	4.3	28.0
10/18/2003	0.1	8.5	0.2	2.1	3.1	20.0
10/19/2003	0.1	5.9	0.1	1.5	2.1	14.0
10/20/2003	0.1	6.2	0.1	1.5	2.3	14.7
10/21/2003	0.1	10.6	0.2	2.6	3.8	25.0
10/22/2003	0.1	13.6	0.3	3.3	4.9	32.0
10/23/2003	0.3	29.2	0.7	7.2	10.6	69.0
10/24/2003	0.1	6.4	0.1	1.6	2.3	15.0
10/25/2003	0.1	6.4	0.1	1.6	2.3	15.0
10/26/2003	0.3	25.0	0.6	6.2	9.0	59.0
10/27/2003	0.2	17.4	0.4	4.3	6.3	41.0
10/28/2003	0.2	15.3	0.4	3.8	5.5	36.0
10/29/2003	0.0	0.3	0.0	0.1	0.1	0.6
10/30/2003	0.0	0.1	0.0	0.0	0.0	0.3
10/31/2003	0.0	0.2	0.0	0.1	0.1	0.5
11/1/2003	0.0	0.1	0.0	0.0	0.0	0.3
11/2/2003	0.0	0.1	0.0	0.0	0.0	0.2
11/3/2003	0.0	0.0	0.0	0.0	0.0	0.1
11/4/2003	0.0	0.0	0.0	0.0	0.0	0.1
11/5/2003	0.0	0.0	0.0	0.0	0.0	0.1
11/6/2003	0.0	0.0	0.0	0.0	0.0	0.1
11/7/2003	0.0	0.1	0.0	0.0	0.0	0.2
11/8/2003	0.0	0.1	0.0	0.0	0.0	0.2
11/9/2003	0.0	0.4	0.0	0.1	0.2	1.0
11/10/2003	0.0	0.2	0.0	0.1	0.1	0.5
11/11/2003	0.0	0.2	0.0	0.1	0.1	0.5

11/12/2003	0.0	0.1	0.0	0.0	0.0	0.3
11/13/2003	0.0	0.3	0.0	0.1	0.1	0.6
11/14/2003	0.0	0.4	0.0	0.1	0.2	1.0
11/15/2003	0.0	0.4	0.0	0.1	0.2	1.0
11/16/2003	0.0	0.2	0.0	0.1	0.1	0.5
11/17/2003	0.0	0.0	0.0	0.0	0.0	0.1
11/18/2003	0.0	0.1	0.0	0.0	0.0	0.2
11/19/2003	0.0	0.0	0.0	0.0	0.0	0.1
11/20/2003	0.0	1.3	0.0	0.3	0.5	3
11/21/2003	0.0	4.2	0.1	1.0	1.5	10
11/22/2003	0.1	13.1	0.3	3.2	4.7	31
11/23/2003	0.1	13.6	0.3	3.3	4.9	32
11/24/2003	0.4	33.1	0.8	8.1	12.0	78.0
11/25/2003	0.1	13.6	0.3	3.3	4.9	32.0
11/26/2003	0.2	14.0	0.3	3.4	5.1	33.0
11/27/2003	0.2	14.0	0.3	3.4	5.1	33.0
11/28/2003	0.2	14.8	0.3	3.7	5.4	35.0
11/29/2003	0.2	14.8	0.3	3.7	5.4	35.0
11/30/2003	0.2	14.4	0.3	3.5	5.2	34
12/1/2003	0.2	15.3	0.4	3.8	5.5	36
12/2/2003	0.2	15.3	0.4	3.8	5.5	36
12/3/2003	0.0	4.2	0.1	1.0	1.5	10
12/4/2003	0.0	2.7	0.1	0.7	1.0	6.3
12/5/2003	0.0	0.0	0.0	0.0	0.0	0
12/6/2003	0.0	0.0	0.0	0.0	0.0	0
12/7/2003	0.0	0.0	0.0	0.0	0.0	0.0
12/8/2003	0.0	0.0	0.0	0.0	0.0	0.1
12/9/2003	0.0	0.0	0.0	0.0	0.0	0.0
12/10/2003	0.0	0.0	0.0	0.0	0.0	0.1
12/11/2003	0.0	0.8	0.0	0.2	0.3	2.0
12/12/2003	0.0	0.4	0.0	0.1	0.1	0.9
12/13/2003	0.0	0.2	0.0	0.1	0.1	0.5
12/14/2003	0.0	0.0	0.0	0.0	0.0	0.1
12/15/2003	0.0	0.4	0.0	0.1	0.2	1.0
12/16/2003	0.0	0.4	0.0	0.1	0.2	1.0
12/17/2003	0.0	0.2	0.0	0.1	0.1	0.5
12/18/2003	0.0	0.2	0.0	0.1	0.1	0.5
12/19/2003	0.0	0.3	0.0	0.1	0.1	0.6
12/20/2003	0.0	3.8	0.1	0.9	1.4	9.0
12/21/2003	0.0	3.0	0.1	0.7	1.1	7
12/22/2003	0.1	5.9	0.1	1.5	2.1	14
12/23/2003	0.0	0.8	0.0	0.2	0.3	2
12/24/2003	0.0	0.1	0.0	0.0	0.0	0.2
12/25/2003	0.0	0.8	0.0	0.2	0.3	2
12/26/2003	0.0	0.8	0.0	0.2	0.3	2
12/27/2003	0.0	0.8	0.0	0.2	0.3	2
12/28/2003	0.0	0.4	0.0	0.1	0.2	1
12/29/2003	0.0	1.3	0.0	0.3	0.5	3
12/30/2003	0.0	0.2	0.0	0.1	0.1	0.5
12/31/2003	0.0	0.1	0.0	0.0	0.0	0.2
Sum for Quarter	5	503	12	124	182	1187
Pilot/Purge Gas	2.2	208.3	4.8	51.3	75.3	491
Quarter Total	8	711	16	175	257	1679
Average Daily	0.08	7.82	0.18	1.92	2.83	18.45

Mean	0.0	1.3	0.0	0.3	0.5	3.0
Average	0.1	5.5	0.1	1.4	2.0	13.0
Std Dev	0.1	7.1	0.2	1.7	2.6	16.7
Max	0.4	33.1	0.8	8.1	12.0	78.0
Ave+3 sd	0.3	26.8	0.6	6.6	9.7	63.3

CONOCOPHILLIPS COMPANY
LOS ANGELES REFINERY, WILMINGTON PLANT
LPG FLARE

Monitor System: System Downtime

Breakdowns and unplanned Maintenance			
Start (Date/Time)	End (Date/Time)	Hours Offline	Explanation
None			
Total time for quarter		0:00:00	hours

Planned Maintenance			
Start (Date/Time)	End (Date/Time)	Hours Offline	Explanation
None			
Total time for quarter		0:00	hours

Assumptions:

If daily Total Gas Flow unavailable due to chart malfunction,
estimated Total Gas Flow based on totallizer reading and averaging daily flow.

CONOCOPHILLIPS COMPANY
LOS ANGELES REFINERY, WILMINGTON PLANT
UK FLARE

Reporting Period **October 1, 2003 - December 31, 2003**

Flaring Event Data

Event Start Date	Event Start Time	Event End Date	Event End Time	Average Vent Gas Flow Rate (SCFM)	Higher Heating Value (BTU/SCF)	HHV Basis	Sulfur Content (PPM as H2S)	Sulfur Basis	Total Event Flow (MSCF)
None									0

DAILY EMISSIONS FROM FLARES

			EMISSIONS (LBS)			Total Gas Flow		Sulfur ppmv
			ROG	CO	SOX as SO2	MSCF		
	1.2		6.8		0.9	58.5		89
			3.4		36.4	30.8		7108
			5.4		123.0	52.4		14127
					552.3	157.2		
					152.1	32.5		
			4.2	24.8	526.0	64.3	1041	49221
			1.6	9.2	177.7	22.1	1131	48392
			1.8	10.6	185.8	23.5	1220	47563
			5.8	34.3	549.1	70.7	1310	46735
			7.6	44.6	657.7	86.2	1399	45906
			8.1	47.5	645.8	86.2	1489	45077
			9.7	57.2	720.0	97.9		44248
				46.9	504.6	76.3		39793
10/16/2003	1.5		7.9	46.3	421.7	71.8		35338
10/17/2003	1.5		8.4	49.4	375.7	73.2		30882
10/18/2003	1.6	10.1	9.3	54.8	340.8			26427
10/19/2003	1.6	10.3	9.5	55.9	277.2	75.9	1991	21972
10/20/2003	4.2	28.4	26.3	154.7	587.3	201.7	2073	
10/21/2003	1.8	12.4	11.5	67.6	184.1	84.8	2156	
10/22/2003	1.7	12.6	11.7	68.8	118.9	83.1	2238	8606
10/23/2003	1.9	12.6	11.6	68.4	118.4	88.5	2088	8053
10/24/2003	1.1	6.9	6.4	37.7	65.4	52.5	1938	7500
10/25/2003	1.1	6.4	5.9	34.8	60.7	52.6	1788	6947
10/26/2003	1.3	7.1	6.5	38.4	67.3	63.3	1639	6393
10/27/2003	1.6	7.7	7.1	41.7	73.5	75.7	1489	5840
10/28/2003	1.8	8.0	7.4	43.5	77.2	87.8	1339	5287

10/29/2003	0.7	2.8	2.6	15.2	27.2	34.6	1189	4734
10/30/2003	1.3	5.0	4.6	27.1	52.7	61.8	1184	5129
10/31/2003	1.6	6.2	5.8	33.8	71.0	77.4	1180	5523
11/1/2003	1.8	6.7	6.2	38.6	82.7	84.1	1175	5918
11/2/2003	1.9	7.2	6.7	39.4	95.4	90.9	1170	6312
11/3/2003	1.2	4.5	4.1	24.3	62.9	56.4	1165	6707
11/4/2003	1.6	5.8	5.4	31.7	87.2	73.9	1161	7101
11/5/2003	1.3	4.9	4.5	26.6	77.6	62.3	1156	7496
11/6/2003	1.2	4.7	4.3	25.4	72.8	57.2	1201	7658
11/7/2003	1.2	4.9	4.6	26.9	75.9	58.4	1245	7819
11/8/2003	1.1	4.6	4.2	24.9	69.1	52.1	1290	7981
11/9/2003	0.2	1.1	1.0	5.7	15.7	11.5	1334	8143
11/10/2003	1.4	6.1	5.7	33.2	89.9	65.1	1379	8305
11/11/2003	1.1	5.0	4.6	27.0	72.0	51.2	1423	8466
11/12/2003	1.2	5.5	5.1	29.8	78.7	54.9	1468	8628
11/13/2003	1.5	7.1	6.5	38.5	130.4	71.9	1446	10912
11/14/2003	1.4	6.6	6.1	36.1	150.2	68.5	1424	13195
11/15/2003	0.5	2.4	2.2	12.8	63.5	24.7	1402	15479
11/16/2003	0.2	1.1	1.0	5.8	33.4	11.3	1380	17763
11/17/2003	1.1	5.0	4.7	27.3	181.2	54.4	1358	20047
11/18/2003	3.4	14.9	13.8	81.0	608.3	163.9	1336	22330
11/19/2003	1.6	6.8	6.3	38.9	310.1	75.8	1314	24614
11/20/2003	1.5	6.4	5.9	34.6	285.1	72.1	1305	23793
11/21/2003	0.7	3.1	2.8	16.7	133.2	34.9	1296	22971
11/22/2003	1.6	6.6	6.1	35.9	277.6	75.4	1287	22150
11/23/2003	1.9	7.8	7.3	42.6	319.7	90.2	1277	21329
11/24/2003	1.2	5.0	4.6	27.1	197.0	57.8	1268	20508
11/25/2003	1.3	5.4	5.0	29.2	205.1	62.7	1259	19686
11/26/2003	1.5	5.9	5.5	32.3	218.8	69.8	1250	18865
11/27/2003	1.7	6.9	6.4	37.5	244.6	80.7	1255	18239
11/28/2003	1.0	4.1	3.8	22.3	140.2	47.9	1259	17612
11/29/2003	1.2	4.9	4.6	26.7	161.5	57.2	1264	16986
11/30/2003	0.5	2.2	2.1	12.2	70.4	25.9	1268	16359
12/1/2003	0.4	1.7	1.5	9.0	50.2	19.2	1273	15733
12/2/2003	4.1	16.9	15.7	92.2	489.7	195.1	1277	15106
12/3/2003	4.6	19.0	17.6	103.6	525.6	218.4	1282	14480
12/4/2003	4.0	16.5	15.3	89.9	427.9	189.6	1281	13577
12/5/2003	1.0	4.2	3.9	23.0	102.4	48.6	1280	12674
12/6/2003	0.6	2.4	2.3	13.3	55.0	28.1	1279	11771
12/7/2003	0.1	0.4	0.3	1.9	7.4	4.1	1277	10868
12/8/2003	1.5	6.3	5.8	34.1	119.7	72.3	1276	9965
12/9/2003	1.4	5.9	5.4	31.9	102.0	67.7	1275	9062
12/10/2003	0.8	3.5	3.2	18.9	54.2	40.0	1274	8159
12/11/2003	1.0	4.8	4.4	26.0	68.0	49.7	1412	8233
12/12/2003	1.3	6.6	6.1	35.7	85.9	62.2	1551	8308
12/13/2003	1.4	7.8	7.3	42.7	98.2	68.3	1689	8382
12/14/2003	3.5	21.0	19.4	114.2	237.3	168.9	1827	8457
12/15/2003	4.3	27.2	25.2	147.9	288.3	203.3	1965	8531
12/16/2003	4.9	33.5	31.0	182.2	334.9	234.1	2104	8606
12/17/2003	1.2	8.7	8.0	47.1	81.9	56.8	2242	8680
12/18/2003	1.5	11.8	10.9	64.3	90.3	72.7	2389	7474
12/19/2003	1.5	11.9	11.1	64.9	72.1	69.2	2537	6268
12/20/2003	0.6	5.6	5.2	30.7	26.0	30.9	2684	5062
12/21/2003	1.4	12.5	11.6	68.0	41.6	64.9	2831	3855
12/22/2003	2.1	20.7	19.2	112.7	45.0	102.3	2978	2649
12/23/2003	0.9	9.2	8.5	49.8	10.3	43.1	3126	1443
12/24/2003	1.2	12.3	11.4	66.7	2.2	55.1	3273	237
12/25/2003	1.1	11.5	10.7	62.7	6.3	53.2	3183	717
12/26/2003	2.1	21.0	19.5	114.2	19.9	99.8	3094	1198
12/27/2003	2.2	21.5	19.9	117.2	29.4	105.4	3004	1678
12/28/2003	2.0	18.7	17.3	101.6	33.8	94.2	2915	2159
12/29/2003	1.2	11.0	10.2	60.1	25.2	57.5	2825	2639
12/30/2003	2.0	18.0	16.7	98.0	50.2	95.8	2736	3120
12/31/2003	2.9	24.4	22.6	133.0	61.3	135.6	2646	3600
Sum for Quart	144	806	746	4384	16463	8859		
Pilot/Purge Ga	6.6	302.4	9.2	76.1	84.1	1092		
Quarter Total	151	1108	756	4460	16547	7951		
Average Daily	1.7	12.2	8.3	49.0	181.8	87.4		

CONOCOPHILLIPS COMPANY
LOS ANGELES REFINERY, WILMINGTON PLANT
UK FLARE

Monitor System: System Downtime

Breakdowns and unplanned Maintenance

Start (Date/Time)	End (Date/Time)	Hours Offline	Explanation
None			
Total time for quarter		0:00:00	hours

Planned Maintenance

Start (Date/Time)	End (Date/Time)	Hours Offline	Explanation
None			
Total time for quarter		0:00	hours

Recordable events with no samples collected

Start Date	Start Time	End Date	End Time	Source
None				

Assumptions:

Criteria pollutants were calculated using interpolated sample results for days with low activity and no sample.

For days that had one or more flare events the lab results or estimations were used as representative for the entire day. This results is some over estimation and will be refined to be more representative in future reports.

Sulfur content and Higher heating value were estimated for events that did not have sample results available. The estimates were calculated per the Rule 1118 Plan using results from similar events and similar time frames.

Estimates for unknown sources were calculated from event information during a similar time frame.

This written report is in addition to requirements to verbally report certain types of incidents. Verbal reports may be made by calling AQMD at 1-800-288-7664 (1-800-CUT-SMOG) or AQMD enforcement personnel.

Section I – Facility Information

1. Facility Name: ConocoPhillips Los Angeles Refinery, Wilmington — Facility ID (6-Digit): 800363
2. Address (where incident occurred): 1660 West Anaheim St.
   City: Wilmington — CA — Zip Code: 90744
3. Mailing Address (if different from item 2): P.O. Box 758
   City: Wilmington — State: CA — Zip Code: 90748
4. Provide the name, title, and phone number of the person to contact for further information:
   Steve Mallon (Name) — Sr. Consulting Engineer (Title) — (310) 952-6141 (Phone)

Section II – Reporting of Breakdowns, Deviations, and Emergencies

1. This written notification is to report a(n):

Type of Incident	Verbal Report Due*	Written Report Due
a. ☒ Breakdown under: ☒ Rule 430 (Non-RECLAIM) ☐ Rule 2004 (RECLAIM) ☐ Rule 218 (Non-RECLAIM) [See Rule 218 (f)(3)]	*For Rules 430 & 2004* - Within 1 hour of discovery. *For Rule 218* – Within 24 hours or next business day for failure/ shutdown exceeding 24 hours	*For Rules 430 & 2004* - Within 7 calendar days after breakdown is corrected, but no later than 30 days from start of the breakdown, unless a written extension is granted. *For Rule 218* – With required semi-annual reports.
b. ☐ Deviation with excess emissions [See Title V Permit, Section K, Condition No. 22B]	Within 72 hours of discovery of the deviation or shorter reporting period if required by an applicable State or Federal Regulation.	Within 14 days of discovery of the deviation.
c. ☐ Other Deviation [See Title V Permit, Section K, Condition Nos. 22D & 23]	None	With required semi-annual monitoring reports.
d. ☐ Emergency under Rule 3002 (g)	Within 1 hour of discovery.	Within 2 working days from when the emission limit was exceeded.

2. The incident was first discovered by: ConocoPhillips Operations (Name) on? 10/23/03 (Date) 5:25 AM X PM
3. The incident was first reported to: 800 CUT SMOG, Oper. 2 (Name of AQMD Staffperson) on? 10/23/03 (Date) 6:12 AM X PM
   a ☒ Via Phone b. ☐ Via Voice Mail
   c. ☐ Via Fax d. ☐ Via Mail
   e. ☐ Via Email f. ☐ In Person
   Notification Number: 60701
4. When did the incident actually occur? 10/23/03 (Date) 5:20 ☐ AM ☒ PM
5. Has the incident stopped? a. ☒ Yes, on: 10/23/03 (Date) 9:15 ☐ AM ☒ PM b. ☐ No
   (See response to #16 below)
6. What was the total duration of the incident? 0
7. For equipment with an operating cycle, as defined in Rule 430 (b)(3)(A), When was the end of the operating cycle during which the incident occurred? Date ____ Time ____ ☐ AM ☐ PM

8. Describe the incident and identify each piece of equipment (by permit, application, or device number) affected. Attach photos (when available) of the affected equipment and attach additional pages as necessary.

Observed visible emissions from North Flare (C706), South Flare (C723), Boiler 7 (D686) and No. 2 SRU Incinerator (C456).

9. The incident may have resulted in a:

a. ☒ Violation of Permit Condition(s): Rule 203(b)

b. ☒ Violation of AQMD Rule(s): Rule 401 and potentially Rules 404 & 405, as applicable

10. What was the probable cause of the incident? Attach additional pages as necessary.

There was an upset of the steam system caused by a malfunctioning analog input point, PIC126, that caused the auxiliary steam header valve, PV-126A, to close. The closing of PV-126A caused the auxiliary steam header to overpressure which lifted the relief valves on the Boiler 8 and Cogen steam drums. The closing of PV-126A also caused a loss of steam flow and pressure to the main steam header. During the steam system upset boilers 4 and 7 shutdown. The loss of steam to the main header caused an upset to the FCCU Wet Gas compressor and the suction line relief valves opened causing flaring to the North Flare. The lack of gas from the Wet Gas Compressor upset the fuel gas system. Shortly after the flaring began the Cogen unit shutdown on reverse power because of the upset to the fuel gas system. The Cogen's shutdown reduced the quantity of steam available to continue to operate the flares in a smokeless manner resulting in opacity from the flares exceeding 20%.

11. Did the incident result in excess emissions? A. ☐ No b. ☒ Yes (Complete the following and attach calculations.)

☐ VOC	lbs	☒ NOx	274 Lbs	☒ Sox	6940 Lbs	☐ H2S	lbs
☐ CO	lbs	☐ PM	Lbs	☒ Other:	20%< X	Opacity	

12. *For RECLAIM facilities Subject to Rule 2004 (I)(3) ONLY:* If excess emissions of NOx and/or SOx were reported in Item 11, do you want these emissions to be counted when determining compliance with your annual allocations?

a. ☐ Yes, for: ☐ NOx ☐ SOx b. ☐ No, for: ☐ NOx ☐ SOx

If box 12(b) above is checked, include all information specified in Rule 2004(i)(3)(B) and (C), as applicable.

13. Describe the steps taken to correct the problem (i.e., steps taken to mitigate excess emissions, equipment repairs, etc.) And the preventative measures employed to avoid future incidents. Include photos of the failed equipment if available And attach additional pages as necessary.

Mitigations: All operating refinery units were either shutdown or operated at reduced rates to reduce refinery steam demand. All H2S produced was routed to the acid plant as feedstock since unit 138 Sulfur recovery unit was placed in hot standby. Lastly, the sour water stripper was shutdown.

Corrective Action:

All steam consuming operations were curtailed to the maximum extent practical and operating boilers Nos. 4, 7 (after re-starting) and 8 were used to stabilize the steam headers. As the steam pressure increased the cogen's fuel gas compressor was started up, the cogenation unit returned to operation and increased steam production and the potential violations were corrected.

Preventative Measures: LAR is still investigating the incident and has not yet identified any preventative measures.

14. Was the facility operating properly prior to the incident?

a. ☒ Yes b. ☐ No, because:

15. Did the incident result from operator error, neglect or improper operation or maintenance procedures?

a. ☒ No b. ☐ Yes, because:

16. Has the facility returned to compliance?

a. ☐ No, because:

b. ☒ Yes (Attach evidence such as emissions calculations, contemporaneous operating logs or other credible evidence.)

Visible emissions from refinery north flare ceased at 9:15 PM.