



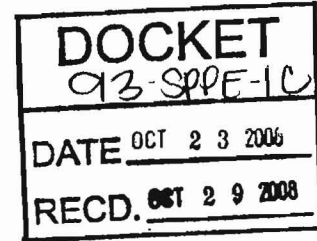
Shell Oil Products US

Martinez Refinery
PO Box 711
Martinez, CA 94553-0071

CERTIFIED MAIL

October 23, 2008

Compliance Project Manager
Docket #93-SPPE-1
California Energy Commission
1516 Ninth Street (MS-2000)
Sacramento, CA 95814



Dear Sir,

Re: Compliance Verifications – Third Quarter 2008 Report

Pursuant to Specific Compliance Condition I. - Air Quality, Air- 1 of 93 SPPE-1, we are providing a quarterly report of air pollutant emissions. The report consists of sections of the monthly reports described in Condition M of the Authority to Construct, and issued to the BAAQMD. This report covers the third quarter of 2008.

If additional information is required concerning this matter, please contact K. P. Wheeler at (925) 313-3722.

Very truly yours,

Lynley C. Harris
Manager, Environmental Affairs Department
Shell Oil Products US Martinez Refinery

Enclosure

BAY AREA
AIR QUALITY MANAGEMENT DISTRICT
SHELL MARTINEZ REFINING COMPANY
MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.
PLANT NO: 11
MONTH: July 2008

POLLUTANT	12-MONTH EMISSION LIMITS		MONTHLY TRIGGER LEVELS	
	LIMIT (TON/YR)	ACTUAL (TON/YR)	LIMIT (TON/MO)	ACTUAL (TON/MO)
NOx	199.4	94.6	20.8	9.33
CO	252.4	173.0	26.3	16.55
SO2	139.7	102.4	14.6	8.57
PM/PM10	59.1	40.2	6.2	3.83
POC	132.0	71.1	13.7	6.86

SOURCES INCLUDED IN EMISSION SUMMARY

COMBUSTION SOURCES

S-4002 DELAYED COKER UNIT FURNACE #1
S-4003 DELAYED COKER UNIT FURNACE #2
S-4021 DHT RECYCLE GAS HEATER
S-4031 CRACK GAS BOTTOMING REBOILER HTR
S-4141 HGHT FEED HEATER
S-4161 HYDROGEN PLANT SMR FURNACE
S-4171 LHT-2 FEED HEATER
S-4190 BOILER 6 GAS TURBINE #1
S-4191 BOILER 6 SUPPL STEAM GENERATOR #1
S-4192 BOILER 6 GAS TURBINE #2
S-4193 BOILER 6 SUPPL STEAM GENERATOR #2

TANKAGE

S-4307 MDEA MAKE-UP TANK
S-4309 DEA TANK #1
S-4310 SOUR WATER TANK
S-4319 RECOVERED OIL TANK
S-4334 ALKYLATE TANK
S-4350 PROCESS WASTEWATER TANK
S-4356 PROCESS WASTEWATER TANK

SRU #4

A-4180 SRU-4 SCOT UNIT
A-4181 SRU-4 SCOT THERMAL OXIIDIZER
A-4347 SULFUR PIT

BAY AREA
 AIR QUALITY MANAGEMENT DISTRICT
 SHELL MARTINEZ REFINING COMPANY
 MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.
 PLANT NO: 11
 MONTH: July 2008

SOURCE: FUEL USE SUMMARY

FUEL TYPE (MMBTU)	COGEN	HP-3	FURNACES w/ SCR	FURNACES w/ LOW NOX BURNERS
RFG	188686	174659	76615	0
FXG	0	83294	57510	0
PSA	0	377848	0	0
NATURAL GAS	681151	0	0	15244

BAY AREA
 AIR QUALITY MANAGEMENT DISTRICT
 SHELL MARTINEZ REFINING COMPANY
 MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.
 PLANT NO: 11
 MONTH: July 2008

SOURCE: EMISSION SUMMARY BY
 TYPE

TYPE	NOx (LB/MONTH)	CO (LB/MONTH)	SO2 (LB/MONTH)	PM/PM10 (LB/MONTH)	POC (LB/MONTH)
COGEN/BOILERS	12374	13917	1864	4349	11308
FURN ABATED BY SCR	238	4694	3342	671	402
FURN W/ LOW NOx BURN	440	534	9	76	46
HYDROGEN PLANT	5256	13352	5869	2423	1379
OTHERS*	86	466	1456	0	265
RAIL/TRUCK LOADING	277	134	48	143	24
SCOT UNIT	NA	NA	4555	NA	NA
TANKS	0	0	0	0	299
TOTAL	18670	33098	17144	7662	13722

* OTHER emissions are from flaring events

BAY AREA
 AIR QUALITY MANAGEMENT DISTRICT
 SHELL MARTINEZ REFINING COMPANY
 MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.
 PLANT NO: 11
 MONTH: July 2008

SOURCE: COGEN S-4190,
 S-4191, S-4192, S-4193
 CONDITION: 24

DAY OF MONTH	NOX (LBS/DAY) LIMIT:610	3 HR MAX NOx @ 15% O2 (PPMV) LIMIT:5		POC (LBS/DAY) LIMIT:500	SO2 (LBS/DAY) LIMIT:458	PM10 LIMIT (LBS/DAY)	PM10 ACTUAL (LBS/DAY)
		S-4191	S-4193				
		1	412				
2	393	4	4	360	60	638	138
3	398	4	4	365	63	635	140
4	404	4	4	369	63	631	142
5	374	4	4	341	52	652	131
6	361	4	4	329	47	660	127
7	376	4	4	344	55	650	132
8	390	4	4	355	63	639	136
9	394	4	4	360	63	636	138
10	384	4	4	350	57	644	135
11	405	4	4	373	64	630	143
12	406	4	4	369	63	630	142
13	399	4	4	362	57	636	139
14	407	4	4	370	60	631	142
15	410	4	4	375	64	628	144
16	414	4	4	379	67	624	146
17	415	4	4	379	67	624	146
18	415	4	4	380	68	624	146
19	403	4	4	368	63	632	142
20	412	4	4	379	63	627	146
21	415	4	4	382	65	625	147
22	382	4	4	349	58	645	134
23	402	4	4	366	62	633	141
24	408	5	4	372	62	630	143
25	401	5	4	364	62	633	140
26	384	4	4	351	56	645	135
27	385	4	4	352	52	646	135
28	403	4	4	369	58	634	142
29	403	4	4	371	56	635	143
30	406	4	4	372	54	634	143
31	412	4	4	377	53	631	145
TOTAL	12374			11306	1864		4349

BAY AREA
 AIR QUALITY MANAGEMENT DISTRICT
 SHELL MARTINEZ REFINING
 COMPANY
 MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.
 PLANT NO: 11
 MONTH: July 2008

SOURCE: COGEN S-4190,
 S-4191, S-4192, S-4193
 POLLUTANT: NOX, SO2

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

DATE	TIME	DURATION	MAGNITUDE	REMARKS
				None this reporting period.

*Excess for this source is:

- 1) Emission of NOx exceeding 5 ppmv, dry, @ 15% O2, 3 hour average.
- 2) Emission of NOx exceeding 610 ppd, combined sources
- 2) Emission of SO2 exceeding 458 ppd, combined sources

III. MONITOR MALFUNCTION/DOWNTIME

DATE	TIME	DURATION	PROBLEM/CORRECTIVE ACTION
07/11/08	09:20	26 hrs 20 min	Failed calibration - Maintenance & recalibration ID # 05G90
07/12/08	09:00	2 hrs 40 min	Nox analyzer failure
07/13/08	00:20	33 hrs	Failed calibration - Maintenance & recalibration ID # 05G91
07/14/08	00:00	9 hrs 20 min	Out of service, Nox analyzer failure
07/15/08	12:50	20 min	Action Limit
07/17/08	09:05	2 hrs 10 min	Verification of calibration
07/20/08	09:00	55 min	Action Limit
07/24/08	23:50	14 hrs 30 min	Rebuilt sample pump and analyzer

BAY AREA
AIR QUALITY MANAGEMENT DISTRICT
SHELL MARTINEZ REFINING COMPANY
MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.

PLANT NO: 11

MONTH: August 2008

POLLUTANT	12-MONTH EMISSION LIMITS		MONTHLY TRIGGER LEVELS	
	LIMIT (TON/YR)	ACTUAL (TON/YR)	LIMIT (TON/MO)	ACTUAL (TON/MO)
NOx	199.4	95.6	20.8	8.64
CO	252.4	173.2	26.3	15.83
SO2	139.7	102.2	14.6	7.74
PM/PM10	59.1	40.3	6.2	3.68
POC	132.0	70.9	13.7	6.43

SOURCES INCLUDED IN EMISSION SUMMARY

COMBUSTION SOURCES

S-4002 DELAYED COKER UNIT FURNACE #1
 S-4003 DELAYED COKER UNIT FURNACE #2
 S-4021 DHT RECYCLE GAS HEATER
 S-4031 CRACK GAS BOTTOMING REBOILER HTR
 S-4141 HGHT FEED HEATER
 S-4161 HYDROGEN PLANT SMR FURNACE
 S-4171 LHT-2 FEED HEATER
 S-4190 BOILER 6 GAS TURBINE #1
 S-4191 BOILER 6 SUPPL STEAM GENERATOR #1
 S-4192 BOILER 6 GAS TURBINE #2
 S-4193 BOILER 6 SUPPL STEAM GENERATOR #2

TANKAGE

S-4307 MDEA MAKE-UP TANK
 S-4309 DEA TANK #1
 S-4310 SOUR WATER TANK
 S-4319 RECOVERED OIL TANK
 S-4334 ALKYLATE TANK
 S-4350 PROCESS WASTEWATER TANK
 S-4356 PROCESS WASTEWATER TANK

SRU #4

A-4180 SRU-4 SCOT UNIT
 A-4181 SRU-4 SCOT THERMAL OXIIDIZER
 A-4347 SULFUR PIT

BAY AREA
 AIR QUALITY MANAGEMENT DISTRICT
 SHELL MARTINEZ REFINING COMPANY
 MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.
 PLANT NO: 11
 MONTH: August 2008

SOURCE: FUEL USE SUMMARY

FUEL TYPE (MMBTU)	COGEN	HP-3	FURNACES w/ SCR	FURNACES w/ LOW NOX BURNERS
RFG	142423	185398	81525	0
FXG	0	82742	50183	0
PSA	0	378300	0	0
NATURAL GAS	659494	0	0	15038

BAY AREA
 AIR QUALITY MANAGEMENT DISTRICT
 SHELL MARTINEZ REFINING COMPANY
 MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.
 PLANT NO: 11
 MONTH: August 2008

SOURCE: EMISSION SUMMARY BY
 TYPE

TYPE	NOx (LB/MONTH)	CO (LB/MONTH)	SO2 (LB/MONTH)	PM/PM10 (LB/MONTH)	POC (LB/MONTH)
COGEN/BOILERS	11346	12831	1560	4010	10425
FURN ABATED BY SCR	248	4610	3165	659	395
FURN W/ LOW NOx BURN	434	526	9	75	45
HYDROGEN PLANT	5006	13573	6170	2475	1409
OTHERS*	0	0	0	0	0
RAIL/TRUCK LOADING	249	121	43	149	21
SCOT UNIT	NA	NA	4523	NA	NA
TANKS	0	0	0	0	557
TOTAL	17284	31661	15470	7368	12853

* OTHER emissions are from flaring events

BAY AREA
 AIR QUALITY MANAGEMENT DISTRICT
 SHELL MARTINEZ REFINING
 COMPANY
 MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.
 PLANT NO: 11
 MONTH: August 2008

SOURCE: COGEN S-4190,
 S-4191, S-4192, S-4193
 POLLUTANT: NOX, SO2

II. STATEMENT OF EXCESS EMISSIONS* (Negative declaration required)

DATE	TIME	DURATION	MAGNITUDE	REMARKS
				None this reporting period.

*Excess for this source is:

- 1) Emission of NOx exceeding 5 ppmv, dry, @ 15% O2, 3 hour average.
- 2) Emission of NOx exceeding 610 ppd, combined sources
- 2) Emission of SO2 exceeding 458 ppd, combined sources

III. MONITOR MALFUNCTION/DOWNTIME

DATE	TIME	DURATION	PROBLEM/CORRECTIVE ACTION
08/01/08	09:20	35 min	Action Limit
08/13/08	09:00	4 hrs 50 min	Action limit on Nox
08/19/08	09:05	2 hrs 20 min	Maintenance
08/20/08	08:05	2 hrs. 35 min	System check per operations request
08/20/08	17:15	2 hrs 25 min	Out of service
08/20/08	16:30	20 hrs 50 min	Lost PMT during system check
08/21/08	16:45	25 min.	System check request by operations
08/22/08	12:30	1 hr 15 min	Trouble shooting for control issues
08/22/08	12:30	1 hr 15 min	Trouble shooting for control issues
08/24/08	09:05	1 hr 35 min	Action Limit zero drift
08/27/08	16:35	30 min	Calibration Verification
08/28/08	08:05	20 min.	Sample system maintenance

BAY AREA
AIR QUALITY MANAGEMENT DISTRICT
SHELL MARTINEZ REFINING COMPANY
MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.

PLANT NO: 11

MONTH: September 2008

POLLUTANT	12-MONTH EMISSION LIMITS		MONTHLY TRIGGER LEVELS	
	LIMIT (TON/YR)	ACTUAL (TON/YR)	LIMIT (TON/MO)	ACTUAL (TON/MO)
NOx	199.4	95.2	20.8	8.12
CO	252.4	172.7	26.3	14.82
SO2	139.7	103.3	14.6	7.30
PM/PM10	59.1	40.1	6.2	3.43
POC	132.0	70.5	13.7	5.89

SOURCES INCLUDED IN EMISSION SUMMARY

COMBUSTION SOURCES

S-4002 DELAYED COKER UNIT FURNACE #1
S-4003 DELAYED COKER UNIT FURNACE #2
S-4021 DHT RECYCLE GAS HEATER
S-4031 CRACK GAS BOTTOMING REBOILER HTR
S-4141 HGHT FEED HEATER
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S-4191 BOILER 6 SUPPL STEAM GENERATOR #1
S-4192 BOILER 6 GAS TURBINE #2
S-4193 BOILER 6 SUPPL STEAM GENERATOR #2

SRU #4

A-4180 SRU-4 SCOT UNIT
A-4181 SRU-4 SCOT THERMAL OXIIDIZER
A-4347 SULFUR PIT

TANKAGE

S-4307 MDEA MAKE-UP TANK
S-4309 DEA TANK #1
S-4310 SOUR WATER TANK
S-4319 RECOVERED OIL TANK
S-4334 ALKYLATE TANK
S-4350 PROCESS WASTEWATER TANK
S-4356 PROCESS WASTEWATER TANK

BAY AREA
 AIR QUALITY MANAGEMENT DISTRICT
 SHELL MARTINEZ REFINING COMPANY
 MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.

SOURCE: FUEL USE SUMMARY

PLANT NO: 11

MONTH: September 2008

FUEL TYPE (MMBTU)	COGEN	HP-3	FURNACES w/ SCR	FURNACES w/ LOW NOX BURNERS
RFG	96973	167870	80940	0
FXG	0	76059	44277	0
PSA	0	360050	0	0
NATURAL GAS	648926	0	0	15225

BAY AREA
 AIR QUALITY MANAGEMENT DISTRICT
 SHELL MARTINEZ REFINING COMPANY
 MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.
 PLANT NO: 11
 MONTH: September 2008

SOURCE: EMISSION SUMMARY BY
 TYPE

TYPE	NOx (LB/MONTH)	CO (LB/MONTH)	SO2 (LB/MONTH)	PM/PM10 (LB/MONTH)	POC (LB/MONTH)
COGEN/BOILERS	10561	11934	1487	3729	9697
FURN ABATED BY SCR	309	4383	2688	626	376
FURN W/ LOW NOx BURN	439	533	9	76	46
HYDROGEN PLANT	4705	12688	5484	2301	1308
OTHERS*	0	0	0	0	0
RAIL/TRUCK LOADING	222	108	38	133	19
SCOT UNIT	NA	NA	4899	NA	NA
TANKS	0	0	0	0	342
TOTAL	16236	29645	14605	6865	11787

* OTHER emissions are from flaring events

BAY AREA
AIR QUALITY MANAGEMENT DISTRICT
SHELL MARTINEZ REFINING COMPANY
MONTHLY REPORT

COMPANY: SHELL OIL PRODUCTS CO.

SOURCE: COGEN S-4190,

PLANT NO: 11

S-4191, S-4192, S-4193

MONTH: September 2008

CONDITION: 24

DAY OF MONTH	NOX (LBS/DAY) LIMIT:610	3 HR MAX NOx @ 15% O2 (PPMV) LIMIT:5		POC (LBS/DAY) LIMIT:500	SO2 (LBS/DAY) LIMIT:458	PM10 LIMIT (LBS/DAY)	PM10 ACTUAL (LBS/DAY)
		S-4191	S-4193				
		1	387				
2	377	4	4	345	75	641	133
3	354	4	4	322	64	657	124
4	341	4	4	310	56	667	119
5	336	4	4	305	51	672	117
6	207	4	S/D	185	46	742	71
7	242	4	S/U	218	48	723	84
8	352	4	4	323	58	661	124
9	359	4	4	329	54	659	127
10	372	4	4	341	54	652	131
11	374	4	4	344	51	652	132
12	365	4	4	335	47	659	129
13	367	4	4	339	48	657	130
14	362	4	4	333	46	660	128
15	363	4	4	334	43	661	128
16	363	4	4	335	47	659	129
17	375	4	4	345	52	651	133
18	375	4	4	345	51	651	133
19	363	4	4	336	46	660	129
20	360	4	4	330	43	663	127
21	355	4	4	326	39	667	125
22	360	4	4	331	43	663	127
23	356	4	4	328	45	664	126
24	358	4	4	330	47	662	127
25	356	4	4	328	43	665	126
26	347	4	4	320	44	669	123
27	345	4	4	318	45	670	122
28	353	4	4	324	40	668	125
29	370	4	4	341	42	658	131
30	369	4	4	339	45	657	130
TOTAL	10561			9692	1487		3728

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT
SHELL OIL PRODUCTS, US – MARTINEZ REFINERY**

MONTHLY REPORT

COMPANY: Shell Oil Products, US
Martinez Refinery

SOURCE: COGEN 1 & 2
S-4190, S-4191, S-4193

PLANT NO.: 11

MONTH: September, 2008

POLLUTANT: NOX, SO2

II. STATEMENT OF EXCESS EMISSIONS (Negative declaration required)

DATE	TIME	DURATION	MAGNITUDE	REMARKS
				None this reporting period

*Excess for these sources are:

- 1) Emission of NOx exceeding 5 ppm, dry @ 15% O2, 3 hour average
- 2) Emission of NOx exceeding 610 ppd, combined sources
- 3) Emission of SO2 exceeding 458 ppd, combined sources

III. MONITOR MALFUNCTIONS

DATE	TIME	DURATION	PROBLEM / CORRECTIVE ACTION
9/5/08	10:30	2 hrs	CGA Audit (Cogen 1)
9/5/08	10:30	2 hrs	CGA Audit (Cogen 2)
9/7/08	10:00	4 hrs 15 min	Action limit,
9/9/08	9:40	1 hr	Calibration
9/18/08	10:10	1 hr	Out of control, low pressure
9/19/08	10:00	50 min	Calibration