



South Coast Air Quality Management District

**BP Carson Refinery
2011 Rule 1118 Quarterly Flare Emissions**

Emission Target

2011 SOx Emissions Target (lbs)	Year-to-date SOx Emissions (lbs)
133,224	10,018.60

Quarter I (January 1, 2011 - March 31, 2011):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	49,570,630	576.2	3,648.80	1,099.40	6,333.70	26.6
FFHDS	21,208,410	383.2	1,136.00	547.9	2,190.40	5,116.20
HC	17,053,320	204.2	1,752.30	329.8	1,867.10	2,648.70
FCC	5,750,120	51.2	716.2	80.4	440.5	41.1
Coker	16,819,640	163.6	2,144.60	394.1	2,228.60	179.5
Total	110,402,120	1,378.40	9,397.90	2,451.60	13,060.30	8,012.10

Quarter II (April 1, 2011 - June 30, 2011):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	21,831,950	168.2	2,812.20	166.2	844.8	18.1
FFHDS	8,493,950	65.5	1,093.70	64.5	327.4	8.9
HC	77,050,350	1,435.50	3,897.30	2,076.70	12,133.60	258.7
FCC	5,437,350	43	699.6	50	261.6	18.7
Coker	33,646,130	90.4	1,532.60	94.4	483	736.5
Total	146,459,730	1,802.60	10,035.40	2,451.80	14,050.40	1,040.90

Quarter III (July 1, 2011 - September 30, 2011):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	22,794,160	210.4	2,755.40	299.1	1,635.00	19
FFHDS	10,430,840	78.4	1,355.50	73.6	568.3	8.7
HC	12,585,700	94.4	1,636.10	88.2	440.8	10.5
FCC	618,540	59.9	761.5	117.8	660.3	125.1
Coker	9,197,880	69.5	1,194.10	67.3	339.2	9.5
Total	55,627,120	512.6	7,702.60	646	3,643.60	172.8

Quarter IV (October 1, 2011 - December 31, 2011):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	39,948,293	602.8	3,269.10	1,044.80	6,029.40	65.9
FFHDS	13,344,655	137.7	1,472.30	166.3	912.3	16.3
HC	11,919,710	89.4	1,549.60	83.4	417.2	9.9
FCC	6,329,785	63.5	774.3	134.3	757.6	609.7
Coker	9,235,227	71.6	1,196.40	80.5	417.6	91
Total	80,777,670	965	8,261.70	1,509.30	8,534.10	792.8