



**South Coast Air Quality Management District**

**BP Carson Refinery  
2009 Rule 1118 Quarterly Flare Emissions**

**Emission Target**

2009 SOx Emissions Target (lbs)	Year-to-date SOx Emissions (lbs)
<b>190,000</b>	<b>47,005.30</b>

**Quarter I (January 1, 2009 - March 31, 2009):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	48,256,880	867.7	3,449.70	1,972.80	11,519.70	112.2
FFHDS	86,277,000	1,755.40	3,650.30	2,907.20	17,046.40	8,846.40
HC	37,340,400	701.4	1,767.70	941.6	5,493.30	13,219.60
FCC	32,236,380	611.6	2,083.80	1,378.70	8,069.70	1,194.90
Coker	35,324,140	575.7	3,443.50	1,792.60	10,451.20	17,474.30
<b>Total</b>	<b>239,434,800</b>	<b>4,511.70</b>	<b>14,395.00</b>	<b>8,992.90</b>	<b>52,580.40</b>	<b>40,847.50</b>

**Quarter II (April 1, 2009 - June 30, 2009):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	52,000,690	939.1	3,326.50	1,797.30	10,484.90	28.5
FFHDS	26,784,720	484	1,815.30	1,022.20	5,966.30	24
HC	14,664,520	194.8	1,330.70	284.7	1,621.90	2,973.80
FCC	7,097,970	67.7	824.1	82.7	449	5.3
Coker	13,938,120	106.5	1,802.70	102.8	520.9	11.7
<b>Total</b>	<b>114,486,020</b>	<b>1,792.10</b>	<b>9,099.20</b>	<b>3,289.80</b>	<b>19,043.00</b>	<b>3,043.30</b>

**Quarter III (July 1, 2009 - September 30, 2009):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	41,873,574	624.9	3,718.90	1,305.60	7,552.70	30.2
FFHDS	50,911,482	973.9	3,284.40	2,242.90	13,129.50	367.7
HC	10,215,169	84.3	1,266.80	79.4	407.1	13.4
FCC	40,657,512	726.5	1,560.40	683.8	3,974.80	921.3
Coker	14,110,074	108.5	1,825.60	113.5	581.4	745.8
<b>Total</b>	<b>157,767,811</b>	<b>2,518.10</b>	<b>11,656.10</b>	<b>4,425.20</b>	<b>25,645.50</b>	<b>2,078.40</b>

**Quarter IV (October 1, 2009 - December 31, 2009):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	103,835,176	1,940.70	5,350.60	2,926.00	17,075.30	45
FFHDS	91,822,009	1,831.90	4,610.20	3,461.00	20,283.00	933.9
HC	12,417,728	105.5	1,556.00	137.1	734.9	35.2
FCC	6,913,077	54	896	63.7	332.8	10.8
Coker	13,546,574	101.1	1,749.80	409.1	474.8	11.3
<b>Total</b>	<b>228,534,564</b>	<b>4,033.20</b>	<b>14,162.60</b>	<b>6,996.90</b>	<b>38,900.80</b>	<b>1,036.20</b>