

I-Plan Option 4 with B-Cap - MARATHON LOS ANGELES REFINERY

Combined Stack	Device ID	Facility	Category	Size (MMBtu/hr)	Baseline Unit Emissions (Tons/Year)	Representative NOx (ppmv)	Rule 1109.1 Table 1 NOx Limit (ppmv)	Rule 1109.1 Remaining Emissions (Tons/Year)	Rule 1109.1 Table 2 NOx Limit (ppmv)	Rule 1109.1 Remaining Emissions (Tons/Year)	Units Possibly Eligible for Conditional Limits Based on Potential Reductions (Refer to Rule 1109.1 (d)(3) for all Conditions)	Operator Selects Table 1 or Table 2 Limits (Table 2 Must Meet (d)(3))	NOx Limit Based on Selected Table 1 or Table 2 Limits (ppmv)	Remaining Emissions Based on Selected Table 1 or Table 2 Limits (Tons/Year)	Operator Specifies if Unit will be Decommissioned (Yes/No)	Will Unit be Included in I-Plan (Yes/No)	Anticipated Start Date of Turnaround (Month/Year)	Expected End Date of Turnaround (Month/Year)	Phase I			Phase II			Phase III				
																			Phase where Permit Application will be Submitted	Planned B-Cap Annual Emission Reduction Strategy (if applicable)	Phase I Alternative BARCT Emission Limit (ppmv)	Phase I BARCT Equivalent Emissions (Tons/Year)	Phase I BARCT Cap Annual Emissions (Tons/Year)	Phase II Alternative BARCT Emission Limit (ppmv)	Phase II BARCT Equivalent Emissions (Tons/Year)	Phase II BARCT B-Cap Annual Emissions (Tons/Year)	Phase III Alternative BARCT Emission Limit (ppmv)	Phase III BARCT Equivalent Emissions (Tons/Year)	Phase III BARCT B-Cap Annual Emissions (Tons/Year)
D20,C67	D20	Calcliner	Coke Calciner	120	260.9	65.0	5.0	20.1	N/A	-	No Table 2 Limit	Table 1	5.0	20.1	No	Yes			Phase III	Non-Operational	65.0	260.9	0.0	65.0	260.9	0.0	NA	100	0.0
D20,C67	C67	Calcliner	Coke Calciner	130																									
D164,D2837	D164	Carson	FCCU	-	7.3	1.0	2.0	14.6	8.0	58.4	Not Eligible	Table 1	2.0	14.6	No	Yes			Phase III	Other	1.0	7.3	3.0	1.0	7.3	3.0	8(365 Day) 16 (7 Day)	58.4 (365 Day) 116.8 (7 Day)	3.0
D164,D2837	D2837	Carson	FCC SU Heater	165	-	-	-	-	-	-	Exempt, Paragraph (o)(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D27	Carson	Heater	550	56.5	21.0	5.0	13.5	22.0	59.2	Not Eligible	Table 1	5.0	13.5	No	Yes			Phase III	Other	21.0	56.5	59.9	21.0	56.5	59.9	45	121.1	59.9	
D629	Carson	Heater	173	27.5	32.0	5.0	4.3	22.0	18.9	Not Eligible	Table 1	5.0	4.3	No	Yes			Phase III	Project	32.0	27.5	2.0	32.0	27.5	2.0	12	10.3	2.0	
D535	Carson	Heater	310	27.9	23.0	5.0	6.1	22.0	26.7	Not Eligible	Table 1	5.0	6.1	No	Yes			Phase III	Other	23.0	27.9	33.1	23.0	27.9	33.1	50	60.7	33.1	
D532	Carson	Heater	255	20.8	26.0	5.0	6.5	22.0	28.6	Table D-2 Eligible	Table 2	22.0	28.6	No	Yes			Phase III	Other	16.0	20.8	21.1	16.0	20.8	21.1	50	65.0	21.1	
D31	Carson	Heater	130	18.3	30.0	5.0	3.1	22.0	13.4	Not Eligible	Table 1	5.0	3.1	No	Yes			Phase III	Other	30.0	18.3	15.8	30.0	18.3	15.8	50	30.5	15.8	
D151	Carson	Heater	130	18.1	36.0	5.0	2.5	22.0	11.1	Not Eligible	Table 1	5.0	2.5	No	Yes			Phase III	Other	36.0	18.1	25.4	36.0	18.1	25.4	50	25.1	25.4	
D155	Carson	Heater	130	17.5	34.0	5.0	2.6	22.0	11.3	Not Eligible	Table 1	5.0	2.6	No	Yes			Phase III	Other	34.0	17.5	23.1	34.0	17.5	23.1	50	25.7	23.1	
D423	Carson	Heater	80	16.5	73.0	5.0	1.1	18.0	4.1	Not Eligible	Table 1	5.0	1.1	No	Yes			Phase III	Project	73.0	16.5	15.6	73.0	16.5	15.6	50	11.3	9.0	
D153	Carson	Heater	130	16.9	33.0	5.0	2.6	22.0	11.3	Not Eligible	Table 1	5.0	2.6	No	Yes			Phase III	Other	33.0	16.9	25.7	33.0	16.9	25.7	50	25.6	25.7	
D67	Carson	Heater	120	15.4	31.0	5.0	2.5	22.0	10.9	Not Eligible	Table 1	5.0	2.5	No	Yes			Phase III	Other	31.0	15.4	16.7	31.0	15.4	16.7	50	24.8	16.7	
D29	Carson	Heater	150	14.8	28.0	5.0	2.6	22.0	11.6	Not Eligible	Table 1	5.0	2.6	No	Yes			Phase III	Other	28.0	14.8	15.3	28.0	14.8	15.3	50	26.4	15.3	
D33	Carson	Heater	100	11.4	24.0	5.0	2.4	18.0	8.6	Table D-2 Eligible	Table 2	18.0	8.6	No	Yes			Phase III	Other	24.0	11.4	11.4	24.0	11.4	11.4	45	21.4	11.4	
D539	Carson	Heater	52	5.4	23.0	5.0	1.2	18.0	4.2	Table D-2 Eligible	Table 2	18.0	4.2	No	Yes			Phase III	Other	23.0	5.4	5.4	23.0	5.4	5.4	50	11.7	5.4	
D421	Carson	Heater	82	4.6	18.0	5.0	1.3	18.0	4.6	Table D-2 Eligible	Table 2	18.0	4.6	No	Yes			Phase III	Other	18.0	4.6	3.7	18.0	4.6	3.7	40	10.2	3.7	
D625	Carson	Heater	39	5.4	23.0	9.0	2.1	N/A	N/A	No Table 2 Limit	Table 1	9.0	2.1	No	No			Phase III	N/A										
D250	Carson	Heater	89	3	22.0	5.0	0.7	18.0	2.5	Table D-2 Eligible	Table 2	18.0	2.5	No	Yes			Phase III	Other	22.0	3.0	4.9	22.0	3.0	4.9	50	6.8	4.9	
D538	Carson	Heater	39	4.2	20.0	9.0	1.9	N/A	N/A	No Table 2 Limit	Table 1	9.0	1.9	No	No			Phase III	N/A										
D416	Carson	Heater	24	3.4	28.0	9.0	1.1	N/A	N/A	No Table 2 Limit	Table 1	9.0	1.1	No	No			Phase III	N/A										
D626	Carson	Heater	39	3.3	28.0	9.0	1.1	N/A	N/A	No Table 2 Limit	Table 1	9.0	1.1	No	No			Phase III	N/A										
D628	Carson	Heater	39	3.4	23.0	9.0	1.3	N/A	N/A	No Table 2 Limit	Table 1	9.0	1.3	No	No			Phase III	N/A										
D63	Carson	Heater	360	5.3	5.1	5.0	5.2	22.0	22.9	Table D-2 Eligible	Table 2	22.0	22.9	No	Yes			Phase III	Other	5.1		3.1	5.1	5.3	3.1	12	12.5	3.1	
D541	Carson	Heater	39	4.3	16.0	9.0	2.4	N/A	N/A	No Table 2 Limit	Table 1	9.0	2.4	No	No			Phase III	N/A										
D627	Carson	Heater	39	3.7	17.0	9.0	2.0	N/A	N/A	No Table 2 Limit	Table 1	9.0	2.0	No	No			Phase III	N/A										
D419	Carson	Heater	52	1.9	15.0	5.0	0.6	18.0	2.3	Table D-2 Eligible	Table 2	18.0	2.3	No	Yes			Phase III	Other	15.0	1.9	2.8	15.0	1.9	2.8	45	5.7	2.8	
D425	Carson	Heater	22	2.4	28.0	9.0	0.8	N/A	N/A	No Table 2 Limit	Table 1	9.0	0.8	No	No			Phase III	N/A										
D1433	Carson	Heater	13	1.4	31.0	9.0	0.4	N/A	N/A	No Table 2 Limit	Table 1	9.0	0.4	No	No			Phase III	N/A										
D418	Carson	Heater	11	1.3	34.0	9.0	0.3	N/A	N/A	No Table 2 Limit	Table 1	9.0	0.3	No	No			Phase III	N/A										
D417	Carson	Heater	10	1.3	17.0	9.0	0.7	N/A	N/A	No Table 2 Limit	Table 1	9.0	0.7	No	No			Phase III	N/A										
D1465	Carson	SMR Heater	427	11	5.1	5.0	10.8	7.5	16.2	Table D-2 Eligible	Table 2	7.5	16.2	No	Yes			Phase III	Other	5.1	11.0	6.0	5.1	11.0	6.0	12	25.9	6.0	
D570	Carson	SMR Heater	650	48.9	11.0	5.0	22.2	7.5	33.3	Table D-2 Eligible	Table 2	7.5	33.3	No	Yes			Phase III	Other	11.0	48.9	20.1	11.0	48.9	20.1	12	53.3	20.1	
D1233,D1234	D1233	Carson	Gas Turbine	985.5	54.8	3.0	3.0	54.8	N/A	N/A	No Table 2 Limit	Table 1	3.0	54.8	No	Yes			Phase III	Other	3.0	54.8	42.0	3.0	54.8	42.0	5	91.3	22.1
D1233,D1234	D1234	Carson	Duct Burner	340																									
D1239,D1240	D1239	Carson	Gas Turbine	985.5	53.4	2.7	3.0	59.3	N/A	N/A	No Table 2 Limit	Table 1	3.0	59.3	No	Yes			Phase III	Other	2.7	53.4	42.0	2.7	53.4	42.0	5	98.9	22.1
D1239,D1240	D1240	Carson	Duct Burner	340																									
D1226,D1227	D1226	Carson	Gas Turbine	985.5	49.7	2.6	3.0	57.3	N/A	N/A	No Table 2 Limit	Table 1	3.0	57.3	No	Yes			Phase III	Other	2.6	49.7	41.4	2.6	49.7	41.4	5	95.6	21.7
D1226,D1227	D1227	Carson	Duct Burner	340																									
D1236,D1237	D1236	Carson	Gas Turbine	985.5	55.9	2.7	3.0	62.1	N/A	N/A	No Table 2 Limit	Table 1	3.0	62.1	No	Yes			Phase III	Other	2.7	55.9	41.7	2.7	55.9	41.7	5	103.5	22.0
D1236,D1237	D1237	Carson	Duct Burner	340																									
C2413	Carson	SRU/TGI	40	14.1	19.0	30.0	22.3	N/A	N/A	No Table 2 Limit	Table 1	30.0	22.3	No	Yes			Phase III	Other	19.0	14.1	13.5	19.0	14.1	13.5	100	74.2	13.5	
C910	Carson	SRU/TGI	45	25.1	34.0	30.0	22.1	N/A	N/A	No Table 2 Limit	Table 1	30.0	22.1	No	Yes			Phase III	Other	34.0	25.1	21.7	34.0	25.1	21.7	100	73.8	21.7	
C2979	Carson	Vapor Incinerator	4	2.6	35.0	30.0	2.2	40.0	3.0	Table D-2 Eligible	Table 2	40.0	3.0	No	No			Phase III	N/A										
D32	Wilmington	Heater	218	43.1	59.0	5.0	3.7	22.0	16.1	Not Eligible	Table 1	5.0	3.7	No	Yes			Phase III	Project	59.0	43.1	55.0	59.0	43.1	55.0	50	36.5	3.7	
D9	Wilmington	Heater	200	37.5	40.0	5.0	4.7	22.0	20.6	Not Eligible	Table 1	5.0	4.7	No	Yes			Phase III	Project	40.0	37.5	37.5	40.0	37.5	37.5	50	46.9	4.7	
D247,D248,D249	D247	Wilmington	Heater	82	8	43.0	5.0	0.9	18.0	3.3	Not Eligible	Table 1	5.0	0.9	No	Yes			Phase III	Other	43.0	8.0	4.1	43.0	8.0	4.1	50	9.3	4.1
D247,D248,D249	D248	Wilmington	Heater	50	9.4	43.0	5.0	1.1	18.0	3.9	Not Eligible	Table 1	5.0	1.1	No	Yes			Phase III	Other	43.0	9.4	4.8	43.0	9.4	4.8	50	10.9	