



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

August 18, 2009  
via electronic submittal

Mr. Gerardo Rios  
USEPA Region IX, Mail Stop AIR-3  
75 Hawthorne Street  
San Francisco, CA 94105

SUBJECT: Minor Permit Revision to Title V Facility Permit  
Paramount Petroleum Corporation  
SCAQMD Facility ID: 800183  
14700 Downey Ave.  
Paramount, CA 90745

REFERENCE: Paramount's two projects pertaining to:  
(a) H-402 Tail Gas Incinerator, and  
(b) H-907 Air Blowing Stills Incinerator

Dear Mr. Rios:

The South Coast Air Quality Management District (AQMD) has received and reviewed a Title V application for a Minor Permit Revision to the Paramount Petroleum Corporation Facility Permit. This Title V permit revision meets all the requirements of a Minor Permit Revision as defined in Rule 3000(b)(12). Paramount is proposing: a) to reroute certain process vent streams with high hydrogen sulfide (H<sub>2</sub>S) content from the H-402 Tail Gas Incinerator to the front of the sulfur Recovery Unit (SRU) to ensure that future emissions from the miscellaneous gas streams connected to and combusted by the incinerator meet the federal requirements of the fuel gas Standards for Petroleum Refineries; and b) to connect miscellaneous vent streams to the H-907 Air Blowing Stills Incinerator and make changes to the operation of the incinerator. The applications are listed in the tables below.

## A. H-402 Tail Gas Incinerator

	A/N	Equipment	Device ID	Permit Action	Section	Process	System
1	436715	Sulfur Truck Loading Rack System	D841 D842 D843	To vent the sulfur rack vapor recovery to the sulfur pit	H	8	26
2	436741	Tail Gas Incinerator H-402	C175	To correct vents received and rating of	H	7	3

	A/N	Equipment	Device ID	Permit Action	Section	Process	System
				the incinerator			
3	437034	Compressor C-124	D64	To vent compressor and packing vents to the fuel gas system	H	2	4
4	437035	Compressor C-121	D54	To vent compressor and packing vents to the fuel gas system	H	2	3
5	437036	Compressor C-301	D42	To vent compressor and packing vents to the fuel gas system	H	2	1
6	482640	Amine Regeneration Unit	D142	To vent to stand-by caustic absorber during emergency	H	6	7
7	485566	Sour Water Stripper	P6/S2	To vent to stand-by caustic absorber during emergency	H	6	2
8	486507	Sulfur Recovery Unit	P7/S1	To modify SRU to allow wastewater and caustic vent to SRU	H	7	1
9	486510	Oil and Water Separation System	D261 D262 D504	To vent Wemco and Cistern to the front of the SRU	H	9	2
10	486513	Caustic Scrubber	P6/S6	To allow to receive emergency vent from amine regeneration unit and sour water stripper	H	6	6
11	486514	Caustic Loading Rack	D842 D843	To add caustic loading rack, vent to SRU, emergency vent to H-402	H	8	28
12	486516	Fuel Gas System	P13/S6	To allow fuel gas system to receive vent from compressor crank case and packing vents	H	13	6
13	486518	Diesel Tank Farm Filter	D851	To construct new diesel tank farm filter	H	10	1

## B. H-907 Air Blowing Stills Incinerator

	A/N	Equipment	Device ID	Permit Action	Section	Process	System
1	421387	Asphalt TT Rack No. 6 (60/61)	D192	Add H-907 Incinerator vent gas connection that was installed without a permit to construct (PC)	D	8	6
2	483327	CECO Filter	C596		D	8	6
3	421388	Asphalt TT Rack No. 7 (70/71)	D196		D	8	7
4	483334	CECO Filter	C597		D	8	7
5	421390	Asphalt TT Rack No. 8 (80/81)	D200		D	8	8
6	483338	CECO Filter	C598		D	8	8
7	421391	Asphalt TT Rack No. 11	D179		D	8	9
8	483341	CECO Filter	C575		D	8	9
9	421395	Asphalt TT Rack No. 13	D187		D	8	11
10	483342	CECO Filter	C576		D	8	11
11	423441	Asphalt TT Rack No. 26	D570	Permitted as a loading/unloading rack but constructed as an unloading rack only	D	8	23
12	482509	Organic Rail Car Load/Unload Rack	D206	Add four loading arms that were installed without a PC	D	8	25
13	448913	Asphalt Mix Tank No. T-20	D579	Add the connection to the H-907 Incinerator as permitted under A/N 353068 and increase permitted temperature from 350°F up to 450°F	D	10	1
14	417079	AB Stills Incinerator (H-907)	C531	Add vent gas connections specified above	D	15	3
15	477239	Asphalt Mix Tank No. T-141	D527	Connect the common CECO Filter (C769) for these tanks to the H-907 Incinerator. Carbon adsorbers (C770) to act as a	H	10	1
16	479413	Asphalt Mix Tank No. T-142	D528		H	10	1
17	479418	Asphalt Tank No. T-	D523		H	10	1

	A/N	Equipment	Device ID	Permit Action	Section	Process	System
		509		backup control			
18	479419	Asphalt Mix Tank No. T-777	D525		H	10	1
19	479420	Asphalt Mix Tank No. T-1012	D273		H	10	1
20	477240	Asphalt Mix Tank No. T-1013	D274		H	10	1
21	479421	CECO Filter & Carbon Absorber	C769/ C770		H	10	1
22	480174	Organic Rail Car Load/Unload Rack	D206	Connect the CECO Filter, which serves this loading rack, to the H-907 Incinerator	H	8	25
23	477241	CECO Filter	C599		H	8	25
24	435397	AB Stills Incinerator (H-907)	C531	Increase the rating of this Incinerator from the 18 MMBtu/hr up to 30 MMBtu/hr with an average rate of 18 MMBtu/hr. Also add the vent gas connections specified above	H	8	25

In addition, five local permits to construct were issued to Paramount for a modification of four catalytic reforming heaters and a selective catalytic reduction system (SCR), pursuant to Rule 3002(a), and prior to the issuance of the initial Title V permit. This modification has no increase in emissions; therefore, the revision is also a minor permit revision and is subject to a 45-day EPA review (AQMD Rule 3003). Information on the four heaters and SCR applications is provided below.

	A/N	Equipment	Device ID	Permit Action	Section	Process	System
1	487936	Selective Catalytic Reduction System	C77	Replace catalyst	H	3	3
2	491587	Heater H-306	D76	District's request to submit basic equipment to ensure compliance with new catalyst	H	3	2
3	491588	Heater H-305	D75				
4	491589	Heater H-304	D74				
5	491590	Heater H-303	D73				

The AQMD is required under Rule 3003(j) to provide a copy of the proposed permit to the EPA administrator for a 45-day review. As such, a copy of the proposed revision to the existing Title V permit is attached along with our evaluation for your review. Please note that the evaluation may contain potential confidential information. As agreed with your staff, we are submitting the required documents to the email address [R9AirPermits\\_SC@epa.gov](mailto:R9AirPermits_SC@epa.gov).

If you have any questions or wish to provide comments regarding this proposed permit, please contact Ms. Angelita Alfonso (909) 396-2255 ([aalfonso@aqmd.gov](mailto:aalfonso@aqmd.gov)) or Mr. Bob Sanford (909) 396-2660 ([bsanford@aqmd.gov](mailto:bsanford@aqmd.gov)).

Sincerely,



Jay Chen, P.E.

Senior Manager

Refinery and Waste Management Permitting

Engineering and Compliance

Enclosures: Proposed Title V Permit, Sections D & H  
Evaluation for H-402 Tail Gas Incinerator Project  
Evaluation for H-907 Air Blowing Stills Incinerator Project  
Evaluation for Catalytic Reforming Heaters and SCR

cc: Jimmy Crosby, Paramount Petroleum Corporation (w/o enclosures)