



February 11, 2015

**BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT**

Chevron Products Company
841 Chevron Way
Richmond, CA 94802

Attention: **Dave Feiglstok**

Application Number: 12842
Plant Number: 10
Equipment Location: Same as above

Dear Applicant:

SUBJECT: AUTHORITY TO CONSTRUCT REISSUANCE

The Bay Area Air Quality Management District is reissuing the Authority to Construct for the following sources that comprise the Chevron Richmond Refinery "Modernization Project":

- S-4449 Hydrogen Plant Train #1, 140 MM SCFD Hydrogen Produced maximum capacity
- S-4450 Hydrogen Plant Train #2, 140 MM SCFD Hydrogen Produced maximum capacity
- S-4451 Hydrogen Recovery Unit, 50 MM SCFD Hydrogen Recovered maximum capacity
- S-4471 Hydrogen Plant Train #1 Reformer Furnace, 950 MMBtu/hr maximum firing rate higher heating value (HHV), equipped with Low-NOx Burners abated by A-0302 Hydrogen Plant Train #1 Selective Catalytic Reduction (SCR) [Vented to P-0302 Hydrogen Plant Train #1 Furnace Exhaust]
- S-4472 Hydrogen Plant Train #2 Reformer Furnace, 950 MMBtu/hr maximum firing rate HHV, equipped with Low-NOx Burners abated by A-0303 Hydrogen Plant Train #2 SCR [Vented to P-0303 Hydrogen Plant Train #2 Furnace Exhaust]
- S-4465 Hydrogen Plant Cooling Tower, 36,000 gal/min maximum capacity
- S-6021/A-6021 Hydrogen Plant Flare, 1.6 MMBtu/hr Pilot maximum capacity HHV, [Vented to P-0305 Hydrogen Plant Flare Exhaust]
- S-4490 Sulfur Loading Rack, 157 LT/hr maximum capacity abated by A-0310 Sulfur Loading Rack Caustic Scrubber [Vented to P-0310 Sulfur Loading Rack Caustic Scrubber Exhaust]
- A-4450 Acid Gas Scrubber (C-2440), 11 MMSCFD Acid Gas for abatement of: #3 H2S Plant (S-4433), #4 H2S Plant (S-4434), #5 H2S Plant (S-4435), Recycle Amine Regenerator (S-4454), and the #8 NH3-H2S Plant (S-4429) and #18 NH3-H2S Plant (S-4345)
- S-4436 F-2170 Stack Gas Heater No. 1 SRU, 31.9 MMBtu/hr maximum firing rate HHV [vented to P-0151 SRU Train #1 Exhaust]
- S-4437 F-2270 Stack Gas Heater No. 2 SRU, 31.9 MMBtu/hr maximum firing rate HHV [Vented to P-0152 SRU Train #2 Exhaust]

ALAMEDA COUNTY
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Jack P. Broadbent
EXECUTIVE OFFICER/APCO

S-4438 F-2370 Stack Gas Heater No. 3 SRU, 56.1 MMBtu/hr maximum firing rate HHV [Vented to P-0153 SRU Train #3 Exhaust]

S-4456 Fresh Amine Storage Tank, 70,000 gal maximum capacity

S-3227 Lean Amine Storage Tank, 130,000 gallon maximum capacity

S-3228 Caustic Storage Tank, 200,000 gallon maximum capacity

S-3229 Spent Caustic Storage Tank, 400,000 gallon maximum capacity

This is your Authority to Construct for **Modification of Existing Equipment:**

S-4253 TKC/FCC Feed Hydrotreater, 96,000 BPD maximum capacity

S-4227 Sulfur Recovery Unit Train #1, 345 LTD maximum capacity abated by both A-0020 SRU#1 Tail Gas Unit Thermal Oxidizer 30.8 MMBtu/hr HHV maximum firing rate and A-120 Wet Electrostatic Precipitator (ESP)

S-4228 Sulfur Recovery Unit Train #2, 345 LTD maximum capacity abated by A-0021 SRU#2 Tail Gas Unit Thermal Oxidizer 30.8 MMBtu/hr HHV maximum firing rate and A-121 Wet Electrostatic Precipitator (ESP)

S-4229 Sulfur Recovery Unit Train #3, 570 LTD maximum capacity abated by A-0022 SRU#3 Tail Gas Unit Thermal Oxidizer 45.0 MMBtu/hr HHV maximum firing rate and A-122 Wet Electrostatic Precipitator (ESP)

The equipment described above is subject to condition no. 24136.
Existing equipment is also subject to any existing conditions.

Notification

Please contact your assigned Permit Engineer, listed in the correspondence section of this letter, in writing, (by letter, fax, or email) at least three days before the initial operation of the equipment so that we may observe the equipment in operation and verify conformance with the Authority to Construct. Operation includes any start-up of the source for testing or other purposes. Operation of equipment without notification to the District may result in enforcement action. **Do not send start-up notifications to the Air Pollution Control Officer.** Startup information may be faxed to the Engineering Division at (415) 749-5030.

Start-up Period

After receipt of the start-up letter required above, this Authority to Construct authorizes operation during the start-up period from the date of initial operation noted in your start-up letter until the Permit to Operate is issued, up to a maximum of 90 days. All conditions (specific or implied) of the Authority to Construct are in effect during the start-up period.

Fees

District Regulation 3 requires a fee for each new Permit to Operate. You will be invoiced upon receipt of your start-up letter. No permits will be issued until all outstanding fees are paid.

Implied Conditions

In the absence of specific permit conditions to the contrary, the throughputs, fuel and material consumption, capacities, and hours of operation described in your permit application will be considered maximum allowable limits. A new permit will be required before any increase in these parameters, or change in raw material handled, may be made.

Expiration

This reissued Authority to Construct expires two years from the date of issuance of this letter.

Trade Secret

Unless you have already designated specifically identified materials in your permit application as trade secret, under the California Public Records Act, all data in your permit application, the permit itself and all permit conditions will be considered a matter of public record and may be disclosed to a third party. Please contact your permit reviewer immediately if you wish to amend your permit application submittals or to designate certain permit conditions as trade secret. Unless we hear from you within ten (10) calendar days of this letter, except for materials which have been previously designated as trade secret, you shall be deemed to have waived any claim of confidentiality with respect to all materials in the District's files relating to this permit application.

Right of Entry

The Air Pollution Control Officer of the Bay Area Air Quality Management District, the Chairman of the California Air Resources Board, the Regional Administrator of the Environmental Protection Agency, and/or their designees, upon presentation of credentials, shall be granted the right of entry to any premises on which an air pollution source is located for the purposes of:

- A. The inspection of the source
- B. The sampling of materials used at the source
- C. The conduct of an emissions source test
- D. The inspection of any records required by District rule or permit condition.

Correspondence

Please include you application number with any correspondence with the District. The District's regulations may be viewed online at www.baaqmd.gov If you have any questions on this matter, please call **Bhagavan Krishnaswamy, Senior Air Quality Engineer at (415) 749-4637.**

Very truly yours,



Jim Karas, P.E.
Director of Engineering
Bay Area Air Quality Management District

GAS:BRK

Attachment: Condition no. 24136