



Dave Feiglstok
Manager

**Health, Environment &
Safety**
Chevron Products Company
P. O. Box 1272
Richmond, CA 94802-0272
Tel 510 242 1400
Fax 510 242 5353
dmfe@chevron.com

RECEIVED

2012 JUL 23 AM 11 43

July 18, 2012

BAY AREA AIR QUALITY
MANAGEMENT DISTRICT

Mr. Greg Solomon
Senior Air Quality Engineer
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109

**Application No. 12842, Plant 10
Richmond Refinery Energy & Hydrogen Renewal Project
Request for Renewal of Authority to Construct**

Dear Mr. Solomon:

Pursuant to District Regulation 2-1-407, Chevron requests renewal of the Authority to Construct for the Renewal Project (ATC) for an additional two years from the current expiration date of September 19, 2012. Attachment 1 is a copy of the annotated ATC that Chevron submitted to the District on September 13, 2011. This document remains an accurate listing of sources that now comprise the Renewal Project.

The ATC renewal fee estimate is provided in Attachment 2. Chevron will submit a check for the fee upon District confirmation of the amount.

In the first renewal of the ATC, dated February 3, 2012, the District determined that the remaining project sources satisfy the definition of substantial use per District Regulation 2-1-227. This determination was made after thorough review of supportive data and information provided by Chevron. Therefore, the District should grant this renewal request pursuant to Regulation 2-1-407.3 without further analysis.

If you have any questions or need additional information, please contact Mr. Mark Piersante at (510) 242-2707.

Sincerely,


Dave Feiglstok



**BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT
SINCE 1955**

ALAMEDA COUNTY
Tom Bates
Scott Haggerly
Janet Lockhart
Nate Miley

CONTRA COSTA COUNTY
John Gioia
Mark Ross
Michael Shirmansky
Gayle B. Uilkema

MARIN COUNTY
Harold C. Brown, Jr.

NAPA COUNTY
Brad Wagenknecht
(Secretary)

SAN FRANCISCO COUNTY
Chris Daly
Jake McGoldrick
Gavin Newsom

SAN MATEO COUNTY
Jerry Hill
(Chair)
Carol Klatt

SANTA CLARA COUNTY
Erin Garner
Yonko Kishimoto
Liz Kniss
Patrick Kwok

SOLANO COUNTY
John F. Silva

SONOMA COUNTY
Tim Smith
Pamela Torliatt
(Vice-Chair)

Jack P. Broadbent
EXECUTIVE OFFICER/APCO

September 19, 2008

**Chevron Products Company
841 Chevron Way
Richmond, CA 94802**

Attention: Tery Lizarraga

Submitted by
Chevron on
September 13, 2011
annotated to indicate
sources no longer in
the Revised
Renewal Project.

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

Dear Applicant:

SUBJECT: AUTHORITY TO CONSTRUCT

This is your Authority to Construct the following:

- 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-4452 Continuous Catalyst Regeneration Reformer, 71,300 BPD maximum capacity [Vented to P-0308 CCRR Regeneration Vent]
- S-4477 Reformer Furnace #1, 201 MMBtu/hr maximum firing rate HHV, equipped with Low-NOx Burners abated by A-0309 SCR

*The Air District is a Certified Green Business
Printed using soy-based inks on 100% post-consumer recycled content paper*

939 ELLIS STREET • SAN FRANCISCO CALIFORNIA 94109 • 415.771.6000 • WWW.BAAQMD.GOV

~~S-4478 Reformer Furnace #2, 402 MMBtu/hr maximum firing rate HHV equipped with Low-NOx Burners abated by A-0309 SCR~~

~~S-4479 Reformer Furnace #3, 201 MMBtu/hr maximum firing rate HHV equipped with Low-NOx Burners abated by A-0309 SCR~~

~~S-4480 Reformer Furnace #4, 201 MMBtu/hr maximum firing rate HHV equipped with Low-NOx Burners abated by A-0309 SCR~~

~~A-0309 SCR for CCRR Furnaces #1 - #4 (S-4477, S-4478, S-4479, S-4480) [Vented to P-0309 Reformer Furnaces #1 - #4 (S-4477, S-4478, S-4479, S-4480)]~~

~~S-4473 3rd Cogeneration Gas Turbine, 550 MMBtu/hr maximum firing rate HHV, Combined Gas Turbine and HRSG equipped with Duct Burners 860 MMBtu/hr firing rate (calendar day). Combined Gas Turbine and HRSG equipped with Duct Burners 840 MMBtu/hr maximum firing rate (annual average)~~

~~S-4474 3rd Cogeneration Heat Recovery Steam Generator (HRSG) equipped with Duct Burners, equipped with Low-NOx Burners 350 MMBtu/hr Duct Burner maximum firing rate HHV. Combined Gas Turbine and HRSG equipped with Duct Burners 860 MMBtu/hr firing rate (calendar day). Combined Gas Turbine and HRSG with Duct Burners 840 MMBtu/hr maximum firing rate (annual average)~~

~~A-74 SCR abating both 3rd Cogeneration Gas Turbine and Heat Recovery Steam Generator~~

~~A-75 Oxidation Catalyst abating both 3rd Cogeneration Gas Turbine and Heat Recovery Steam Generator [Vented to P-0306 3rd Cogeneration Gas Turbine/Heat Recovery Steam Generator]~~

~~S-4454 #6 H2S Plant, Recycle Amine Regenerator, 11 MMSCFD maximum capacity~~

~~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-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~~

~~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]~~

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]

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

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

S-4435 No. 5 H2S Plant, 9.6 MMSCFD 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

In accordance with Regulation 2-1-407, this Authority to Construct expires two years from the date of issuance unless the authority to construct has been renewed.

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 **Gregory D Solomon, Senior Air Quality Engineer at (415) 749-4715.**

Very truly yours,

Jack P. Broadbent
Executive Officer/APCO



by
Engineering Division

BGY:GDS

Attachment: Condition no. 24136

Attachment 2

Chevron Revised Energy & Hydrogen Renewal Project Authority to Construct Renewal Fees Estimate					July 23, 2012	
Source No.	Unit	ATC Status	Reg 3 Schedule	Initial Fee	Reg. 3-330 ATC Renewal Fee	
S-4449	H2 Plant #1	Substantial Use	G-1	\$ 2,588.00	\$ 1,294.00	
S-4450	H2 Plant #2	Substantial Use	G-1	\$ 2,588.00	\$ 1,294.00	
S-4451	H2 Recovery Plant	Substantial Use	G-1	\$ 2,588.00	\$ 1,294.00	
S-4471	H2 Plant Reformer Furnace #1	Substantial Use	B	\$ 48,792.00	\$ 24,396.00	
S-4472	H2 Plant Reformer Furnace #2	Substantial Use	B	\$ 48,792.00	\$ 24,396.00	
S-4465	H2 Plant Cooling Water Tower	Substantial Use	F	\$ 412.00	\$ 206.00	
S-6021/A-6021	H2 Plant Flare	Substantial Use	G-5	\$ 46,064.00	\$ 23,032.00	
S-4454	#6 H2S Plant Recycle Amine Generator	No	G-1	\$ 2,588.00	\$ 1,294.00	
S-4490	Sulfur Loading Rack	No	G-1	\$ 2,588.00	\$ 1,294.00	
S-4456	Fresh Amine Storage Tank	No	C	\$ 121.10	\$ 60.55	
S-3227	Lean Amine Storage Tank	No	C	\$ 224.90	\$ 112.45	
S-3228	Caustic Storage Tank	No	C	\$ 346.00	\$ 173.00	
S-3229	Spent Caustic Storage Tank	No	C	\$ 692.00	\$ 346.00	
S-4436	F-2170 Stack Gas Heater No. 1 SRU	No	B	\$ 1,638.38	\$ 819.19	
S-4437	F-2270 Stack Gas Heater No. 2 SRU	No	B	\$ 1,638.38	\$ 819.19	
S-4438	F-2370 Stack Gas Heater No. 3 SRU	No	B	\$ 2,881.30	\$ 1,440.65	
S-4253	TKC/FCC Feed Hydrotreater	Substantial Use	G-1	\$ 2,588.00	\$ 1,294.00	
S-4435	No. 5 H2S Plant	No	G-1	\$ 2,588.00	\$ 1,294.00	
S-4227	SRU #1 w/ TGU A-0020	No	G-4	\$ 49,702.00	\$ 24,851.00	
S-4228	SRU #2 w/ TGU A-0021	No	G-4	\$ 49,702.00	\$ 24,851.00	
S-4229	SRU #3 w/ TGU A-0022	No	G-4	\$ 49,702.00	\$ 24,851.00	
TOTAL					\$ 159,412.03	