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AREA AIR QUALITY  
MANAGEMENT DISTRICT

November 29, 2011

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

**CONFIDENTIAL BUSINESS INFORMATION & TRADE SECRET SUBMITTAL - REDACTED  
VERSION**

**Chevron Energy & Hydrogen Renewal Project  
Renewal of Authority to Construct – District Regulation 2-1-407  
Application No. 12842, Plant 10**

Dear Greg:

Further to Chevron's October 24, 2011 letter concerning the request for renewal of the Authority to Construct (ATC) issued on September 19, 2008, the following additional information is being provided. This information provides more documentation concerning "substantial use" for the Hydrogen Purity element of Chevron's Hydrogen & Energy Renewal Project (Renewal Project). This submittal contains the following:

• **Attachment 1:**

- **Process Flow Diagram Drawing D-349319-3 #1 Sulfur Recovery (Plant 2100):** This drawing shows the existing #1 Sulfur Recovery Unit (SRU). New and/or modified equipment is highlighted in yellow.
- **Process Flow Diagram Drawing D-373253-0 #2 Sulfur Recovery (Plant 2200):** This drawing shows the existing #2 SRU. New and/or modified equipment is highlighted in yellow.

• **Attachment 2:**

- **Hydrogen Purity Equipment List:** This is the same list that was previously submitted to the District. However, this version shows cells revised and new information highlighted in

yellow and with bold font. All of this equipment has been purchased and received. Some of it was installed prior to the Court injunction.

- **Attachment 3:**
  - **Worldwide Master Contract between Chevron U.S.A. Inc. and Air Products & Chemical Inc.:** This is the master contract between Chevron and Air Products that provides the framework for site-specific amendments. An amendment to this agreement was executed to provide for the Renewal Project for Air Products' two 15,000 gallon tanks liquid oxygen tanks and oxygen distribution (enrichment) system that were detailed in Chevron's October 24, 2011 submittal to the District.
  
- **Attachment 4:**
  - **Purchase Orders for Oxygen Flow Skid and SRU Liquid Oxygen System:** REDACTED
  - **Amendment 19 to Worldwide Master Contract between Chevron U.S.A. Inc. and Air Products & Chemical Inc.:** REDACTED
  
- **Attachment 5:**
  - **Record of Chevron Payments to Air Products for Liquid Oxygen Storage Tanks:** REDACTED

As set forth in District Regulation 2-1-407, pursuant to an environmental impact report that "explicitly covered a construction period longer than four years," the District issued the ATC on September 19, 2008. By letter dated September 15, 2010, Chevron requested that the ATC be renewed for an additional two year term. The District subsequently requested additional information by letter dated October 6, 2010. Chevron responded to that request by letter dated November 17, 2010. Chevron submitted additional information demonstrating "substantial use" on July 14, August 16, September 13, and October 24, 2011.

#### **TRADE SECRET INFORMATION**

Please note that much of the information included with this transmittal, as well as the attachments, is confidential business/trade secret information. Chevron asserts that this information is trade secret pursuant to Section 6254.7 of the Government Code and District Rule 2-1-202.7 and is not public record due to the following:

- The attached Process Flow Diagrams, cost information on the Hydrogen Purity Equipment List payment history, Master Contract, purchase orders, and contract amendment between Chevron and Air Products contain information of commercial value that could provide competitors with a business advantage.

The redacted, public version of this submittal is also being submitted to the District with this letter.

Mr. Greg Solomon  
BAAQMD  
November 29, 2011  
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If you have any questions concerning the information provided in this submittal, please contact Bob Chamberlin at (510) 242-1466.

Sincerely,

A handwritten signature in black ink, appearing to read "Dave Feiglstok", written in a cursive style.

Dave Feiglstok

Attachments

CHEVRON REVISED RENEWAL PROJECT

ATTACHMENT 1

SULFUR RECOVERY UNIT PROCESS FLOW DIGRAMS

D-349319-3 #1 Sulfur Recovery (Plant 2100)

D-373253-0 #2 Sulfur Recovery (Plant 2200)

THESE PROCESS FLOW DIAGRAMS HAVE BEEN REDACTED SINCE THEY CONTAIN CONFIDENTIAL  
BUSINESS INFORMATION AND ARE TRADE SECRET

**CHEVRON REVISED RENEWAL PROJECT**

**ATTACHMENT 2**

**HYDROGEN PURITY EQUIPMENT LIST**

**Revised November 22, 2011**





Chevron Revised Renewal Project - Hydrogen Purty Equipment List  
 REDACTED PUBLIC VERSION - Yellow highlighted cells indicate information updated for November 23, 2011 Revision

Project Component	Manufacturer Equipment	Equipment Tag #	Equipment Name	Status	Service Order #	Purchase Order #	Purchase Date	Expiry Date	Cost	Location
SRU Modifications	S-4430 F-2710 Stack Gas Header No. 1 SRU S-4431 SRU #1 w/TCU A-0020 S-4432 SRU #2 w/TCU A-0021 S-4433 SRU #3 w/TCU A-0022	P-3105 (see enwg D-34938-1)	HP Boiler Feedwater Pumps	Received - Not Installed	15028943	11031000-0072	1/20/2009	7/6/2009	MANCITO CONDENSING & TRAP STEAM	Trnd 4 Area 1.9
SRU Modifications	S-4434 F-2710 Stack Gas Header No. 1 SRU S-4435 SRU #1 w/TCU A-0020 S-4436 SRU #2 w/TCU A-0021 S-4437 SRU #3 w/TCU A-0022	P-3104 (see enwg D-34938-1)	HP Boiler Feedwater Pumps	Received - Not Installed	15028940	11031000-0072	12/16/2008	5/12/2009	MANCITO CONDENSING & TRAP STEAM	Trnd 4 Area 1.9
SRU Modifications	S-4438 F-2710 Stack Gas Header No. 2 SRU S-4439 SRU #1 w/TCU A-0020 S-4440 SRU #2 w/TCU A-0021 S-4441 SRU #3 w/TCU A-0022	P-3101 (see enwg D-34938-1)	HP Boiler Feedwater Pumps	Received - Not Installed	15028940	11031000-0072	Discontinued and ready available	Discontinued and ready available	MANCITO CONDENSING & TRAP STEAM	Trnd 4 Area 1.9
SRU Modifications	S-4442 F-2710 Stack Gas Header No. 1 SRU S-4443 SRU #1 w/TCU A-0020 S-4444 SRU #2 w/TCU A-0021 S-4445 SRU #3 w/TCU A-0022	P-3101A (see enwg D-34938-1)	HP Boiler Feedwater Pumps	Received - Not Installed	15028940	11031000-0072	4/8/2009	7/20/2009	MANCITO CONDENSING & TRAP STEAM	Trnd 4 Area 1.9
SRU Modifications	S-4446 F-2710 Stack Gas Header No. 2 SRU S-4447 SRU #1 w/TCU A-0020 S-4448 SRU #2 w/TCU A-0021 S-4449 SRU #3 w/TCU A-0022	P-3102 (see enwg D-34938-1)	Compressor Pumps	Received - Not Installed	15028943	11031000-0072	4/8/2009	7/20/2009	MANCITO CONDENSING & TRAP STEAM	Trnd 4 Area 1.9
SRU Modifications	S-4450 F-2710 Stack Gas Header No. 1 SRU S-4451 SRU #1 w/TCU A-0020 S-4452 SRU #2 w/TCU A-0021 S-4453 SRU #3 w/TCU A-0022	P-3102A (see enwg D-34938-1)	Compressor Pumps	Received - Not Installed	15028943	11031000-0072	2/26/2007	3/13/2008	MANCITO CONDENSING & TRAP STEAM	Trnd 4 Area 1.9
SRU Modifications	S-4454 F-2710 Stack Gas Header No. 2 SRU S-4455 SRU #1 w/TCU A-0020 S-4456 SRU #2 w/TCU A-0021 S-4457 SRU #3 w/TCU A-0022	P-3102 (see enwg D-34938-1)	Compressor Pumps	Received - Not Installed	15028943	11031000-0072	10/20/2007	1/20/2008	MANCITO CONDENSING & TRAP STEAM	Workshop Area 1.9
SRU Modifications	S-4458 F-2710 Stack Gas Header No. 1 SRU S-4459 SRU #1 w/TCU A-0020 S-4460 SRU #2 w/TCU A-0021 S-4461 SRU #3 w/TCU A-0022	P-3101C (see enwg D-34938-1)	HP Boiler Feedwater Pump	Received - Not Installed	15027955	11031000-0073	3/31/2009	3/19/2009	MANCITO CONDENSING & TRAP STEAM	Workshop Area 1.9
SRU Modifications	S-4462 F-2710 Stack Gas Header No. 2 SRU S-4463 SRU #1 w/TCU A-0020 S-4464 SRU #2 w/TCU A-0021 S-4465 SRU #3 w/TCU A-0022	P-3101C (see enwg D-34938-1)	HP Boiler Feedwater Pump	Received - Not Installed	15027955	11031000-0073	3/31/2009	3/19/2009	MANCITO CONDENSING & TRAP STEAM	Workshop Area 1.9
SRU Modifications	S-4466 F-2710 Stack Gas Header No. 1 SRU S-4467 SRU #1 w/TCU A-0020 S-4468 SRU #2 w/TCU A-0021 S-4469 SRU #3 w/TCU A-0022	P-3101A (see enwg D-34938-1)	HP Boiler Feedwater Pump	Received - Not Installed	15028943	11031000-0072	3/31/2009	3/19/2009	MANCITO CONDENSING & TRAP STEAM	Trnd 4 Area 1
SRU Modifications	S-4470 F-2710 Stack Gas Header No. 2 SRU S-4471 SRU #1 w/TCU A-0020 S-4472 SRU #2 w/TCU A-0021 S-4473 SRU #3 w/TCU A-0022	P-3101A (see enwg D-34938-1)	HP Boiler Feedwater Pump	Received - Not Installed	15028943	11031000-0072	3/31/2009	3/19/2009	MANCITO CONDENSING & TRAP STEAM	Trnd 4 Area 1
SRU Modifications	S-4474 F-2710 Stack Gas Header No. 1 SRU S-4475 SRU #1 w/TCU A-0020 S-4476 SRU #2 w/TCU A-0021 S-4477 SRU #3 w/TCU A-0022	P-3101A (see enwg D-34938-1)	HP Boiler Feedwater Pump	Received - Not Installed	15028947	11031000-0085	3/27/2009	7/20/2009	MANCITO CONDENSING & TRAP STEAM	Trnd 4 Area 1.5
SRU Modifications	S-4478 F-2710 Stack Gas Header No. 2 SRU S-4479 SRU #1 w/TCU A-0020 S-4480 SRU #2 w/TCU A-0021 S-4481 SRU #3 w/TCU A-0022	P-3101A (see enwg D-34938-1)	HP Boiler Feedwater Pump	Received - Not Installed	15028947	11031000-0085	3/27/2009	7/20/2009	MANCITO CONDENSING & TRAP STEAM	Trnd 4 Area 1.5









CHEVRON REVISED RENEWAL PROJECT

ATTACHMENT 3

Worldwide Master Contract

between

Chevron U.S.A. Inc. and Air Products & Chemicals Inc.

**THIS DOCUMENT HAS BEEN REDACTED**  
**SINCE IT CONTAINS CONFIDENTIAL**  
**BUSINESS INFORMATION AND IS TRADE**  
**SECRET**

CHEVRON REVISED RENEWAL PROJECT

ATTACHMENT 4

Purchase Orders and

Amendment to Worldwide Master Contract

between

Chevron U.S.A. Inc. and Air Products & Chemicals Inc.

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CHEVRON REVISED RENEWAL PROJECT

ATTACHMENT 5

Chevron Payment History to Air Products for Liquid Oxygen System

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