

ATTACHMENT E

SMAQMD Rule 201 Authority to Construct

AUTHORITY TO CONSTRUCT

A/C NO.: 20328(Rev02)

ISSUED BY: _____
Bruce Nixon, P.E.

DATE ISSUED: August 13, 2007

DATE REVISED: August 28, 2008

DATE EXPIRES: August 13, 2009

ISSUED TO: Chevron Sacramento Terminal

LOCATION: 2420 Front Street, Sacramento

DESCRIPTION: A/C No. 20328 - Modification to the existing THC CEM system associated with the APC Absorption/Carbon Adsorption Vapor Processing System (previous P/O No. 14037):

- A. retrofit the existing THC CEM system with a THC/NMHC CEM system and
- B. change the allowable ROC emission concentration to 5,000 ppmv NMHC as propane from the existing 5,000 ppmv THC as propane.

APC Absorption/Carbon Adsorption Vapor Processing System, John Zink, Model AA-2475-12-9 consisting of:

1. absorption equipment, 3'-6" dia. 18' h
2. (2) carbon adsorption beds, 12' dia. X 9' h,
3. THC/NMHC CEM system, Infrared Industries, Model IR8400-D

processing gasoline vapors from two loading racks (SMAQMD P/O Nos. 9886 and 16163) and from one transmix bulk storage tank (SMAQMD P/O No. 5118)

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Authority to Construct Conditions

START-UP REQUIREMENTS

- S1. Upon installation of the equipment authorized in this Authority to Construct, the owner/operator shall contact the Sacramento Metropolitan Air Quality Management District (SMAQMD) at (916) 874-4800 to schedule a start-up inspection.
- S2. This Authority to Construct shall serve as a temporary Permit to Operate provided that:
- A. The SMAQMD has been notified for a start-up inspection.
 - B. The equipment installed matches the equipment authorized in the Authority to Construct.
 - C. The equipment is operated in compliance with all conditions listed within the Authority to Construct.
- S3. A test of the THC/NMHC CEM system, as described in Condition No. 13, shall be conducted within 60 days of start-up

GENERAL REQUIREMENTS

1. The equipment shall be properly maintained.
2. The Air Pollution Control Officer and/or authorized representatives, upon the presentation of credentials, shall be permitted:
 - A. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Authority to Construct, and
 - B. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this Authority to Construct, and
 - C. To inspect any equipment, operation or method required in this Authority to Construct, and
 - D. To sample emissions from the source or require samples to be taken.
3. This Authority to Construct does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the California Health and Safety Code or the Rules and Regulations of the SMAQMD.

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4. A legible copy of this Authority to Construct shall be maintained on the premises with the equipment.

EMISSION LIMITATION REQUIREMENTS

5. The non-methane hydrocarbon (NMHC) concentration in the exhaust stream of the APC Absorption/Carbon Adsorption Vapor Processing System, as measured by the difference between the methane concentration and the total hydrocarbon (THC) concentration in the exhaust stream, shall not exceed 5,000 ppmv NMHC as propane when averaged over a rolling three hour period.

EQUIPMENT OPERATION REQUIREMENTS

6. Prior to beginning operation of the THC/NMHC CEM system, the permittee shall submit a quality assurance plan for the operation of the CEM system to the SMAQMD Air Pollution Control Officer for approval.
7. The THC/NMHC CEM system shall be properly maintained, operated and calibrated at all times. The THC/NMHC CEM system shall be operated in compliance with the quality assurance plan approved by the SMAQMD Air Pollution Control Officer.
8. All equipment associated with the APC Absorption/Carbon Adsorption Vapor Processing System shall be maintained to be leak free and vapor tight as defined in SMAQMD Rule 447 Sections 207 and 210.

MONITORING REQUIREMENTS

9. The permittee shall continuously monitor and record the concentration of THC and NMHC in the exhaust stream of the APC Absorption/Carbon Adsorption Vapor Processing System whenever vapors from tank truck loading are being processed or Storage Tank No. 115 is vented to the control device.
10. A result by any of the below listed test methods which shows non-compliance with any provision of SMAQMD Rule 447 shall constitute a violation.
 - A. Control Device: Control efficiency and emission rates of control devices shall be determined by EPA Method 18, 25, 25A, 25B or California Air Resources Board Test Method 202 or 203.
 - B. Diaphragm Airspace: Concentrations in the airspace above vapor diaphragms shall be determined by EPA Test Method 18 or California Air Resources Board Test Method 150, 1-100, or 2-6.

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- C. Leak Detection: EPA Reference Method 21 shall be used to determine vapor tight condition.
- D. Vapor Pressure: Vapor pressure may be obtained from standard reference texts or may be determined by ASTM D-2879-83 or ASTM D-323-82.
- E. Determination of Compounds Exempt from VOC Definition: If any of the perfluorocarbons are being claimed as exempt compounds, the person making the claim must state in advance which compounds are present, and the EPA approved test method used to make the determination of these compounds.

RECORDKEEPING AND REPORTING REQUIREMENTS

11. The following records shall be continuously maintained onsite for the most recent five year period and shall be made available to the SMAQMD Air Pollution Control Officer upon request.

Frequency	Information to be recorded
Whenever THC and NMHC concentrations are required to be monitored by Condition No. 9.	A. Continuous THC concentration data. (ppmv as propane) B. Continuous NMHC concentration data. (ppmv as propane) C. Rolling three hour average NMHC concentration. (ppmv as propane)

12. The following report shall be submitted to the SMAQMD Air Pollution Control Officer by the specified dates:

Frequency	Information to be included in the report
Quarterly by: Jan 31 Apr 30 July 31 Oct 31	A. The quarterly written report of excess emissions shall include the following: <ul style="list-style-type: none"> i. The magnitude of excess emissions in units of ppmv as propane and pounds per hour and the date and time of commencement and completion of each time period of excess emissions.

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Frequency	Information to be included in the report
	<ul style="list-style-type: none"><li data-bbox="492 531 1421 632">ii. The date and time identifying each period during which the CEM system was inoperative, except for zero and span checks, and the nature of the system repairs or adjustments.<li data-bbox="492 667 1421 768">iii. When no excess emissions have occurred or the CEM system has not been inoperative, repaired or adjusted, such information shall be stated in the report.<li data-bbox="492 804 1421 905">iv. Excess emissions are defined as any rolling three hour period during which the average NMHC concentration exceeds the limit of Condition No. 5.

CEM SYSTEM ACCURACY TESTING REQUIREMENTS

13. A test shall be conducted each calendar year to verify the accuracy of the THC/NMHC CEM system:
- A. Submit a THC/NMHC CEM system accuracy test plan to the SMAQMD Air Pollution Control Officer for approval at least 30 days before the test is to be performed.
 - B. Notify the SMAQMD Air Pollution Control Officer at least 7 days prior to the THC/NMHC CEM system accuracy test date if the date has changed from that approved in the test plan.
 - C. Submit the THC/NMHC CEM system accuracy test report to the SMAQMD Air Pollution Control Officer within 60 days from the completion of the test.
 - D. Operation of the facility at maximum permitted throughput during the THC/NMHC CEM accuracy test is not required.

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Your application for this air quality Authority to Construct was evaluated for compliance with SMAQMD, state and federal air quality rules. The following listed rules are those that are most applicable to the operation of your equipment. Other rules may also be applicable.

<u>SMAQMD Rule No.</u>	<u>Rule Title</u>
201	General Permit Requirements
202	New Source Review
301	Permit Fees
401	Ringelmann Chart
402	Nuisance
447	Organic Liquid Loading

In addition, the conditions on this Authority to Construct may reflect some, but not all, requirements of these rules. There may be other conditions that are applicable to the operation of your equipment. Future changes in prohibitory rules may establish more stringent requirements which may supersede the conditions listed here.

For further information please consult your SMAQMD Rulebook or contact the SMAQMD for assistance.

**AIR QUALITY
MANAGEMENT DISTRICT****AUTHORITY TO CONSTRUCT**

A/C NO.: 22251 **ISSUED BY:** _____
Bruce Nixon, P.E.

DATE ISSUED: March 01, 2010

DATE EXPIRES: March 01, 2012

ISSUED TO: Chevron Sacramento Terminal

LOCATION: 2420 Front Street, Sacramento

DESCRIPTION: Modification to seal description and conditions on existing P/O No. 16162 for -

Storage Tank No. 113 and Ethanol Handling System consisting of:

1. Storage Tank No. 113
 - a. organic liquid storage
 - b. internal floating roof with mechanical shoe primary seal and no secondary seal
 - c. 1,030,092 gallons safe working capacity
 - d. 67' diameter x 41.1' high
2. Ethanol Handling System
 - a. (2) Tank truck unloading spots.
 - b. (1) Unloading pump.
 - c. (1) Supply pump (to loading rack).
 - d. Associated piping from unloading process to Storage Tank No. 113 and from Tank No. 113 to loading rack.

Authority to Construct Conditions**GENERAL**

1. The equipment shall be properly maintained.
2. The SMAQMD Air Pollution Control Officer and/or authorized representatives, upon the presentation of credentials, shall be permitted:
 - A. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Authority to Construct, and
 - B. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this Authority to Construct, and

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- C. To inspect any equipment, operation or method required in this Authority to Construct, and
 - D. To sample emissions from the source or require samples to be taken.
3. This Authority to Construct does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the California Health and Safety Code or the Rules and Regulations of the SMAQMD.
 4. A legible copy of this Authority to Construct shall be maintained on the premises with the equipment.

EMISSION LIMITATION REQUIREMENTS

5. Emissions from Storage Tank No. 113 shall not exceed the following:

Storage Tank No.	Maximum Allowable ROC Emissions (A) lb/quarter			
	Quarter 1	Quarter 2	Quarter 3	Quarter 4
113	404	404	404	404

(A) ROC emissions are based on the maximum allowable throughput, the tank content is organic liquid with RVP less than 4.5 psia, the U.S. EPA TANKS 4.09d emissions program and U.S. EPA Protocol for Equipment Leak Emission Estimates, EPA-453/R-95-017, November 1995, Table 2-3, Marketing Terminal Screening Ranges Emission Factors.

EQUIPMENT OPERATION REQUIREMENTS

6. Storage Tank No. 113 shall not store organic liquids with a Reid vapor pressure that exceeds the following limit as determined by the methods specified in SMAQMD Rule 446 Section 502.4:

Storage Tank No.	Maximum Allowable Reid Vapor Pressure psia	Maximum Allowable True Vapor Pressure psia
113	≤ 4.5	< 11

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7. The throughput of Storage Tank No. 113 shall not exceed the following limit:

Storage Tank No.	Maximum Allowable Organic Liquid Throughput (A) gallons/quarter			
	Quarter 1	Quarter 2	Quarter 3	Quarter 4
113	37,500,000	37,500,000	37,500,000	37,500,000

(A) Throughput includes all organic liquids stored in the tank that have a true vapor pressure greater than 1.5 psia under actual storage conditions.

MONITORING REQUIREMENTS

8. Visually inspect the internal floating roof and the primary seal through the manholes and roof hatches on the fixed roof at least annually after initial fill with an organic liquid.

A. If the internal floating roof is not resting on the surface of the volatile organic liquid inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the storage vessel from service with 45 days.

B. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30 day extension may be requested from the SMAQMD Air Pollution Control Officer. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

9. A result by any of the below listed test methods which shows non-compliance with any provision of SMAQMD Rule 446 shall constitute a violation.

A. Control Device: Control efficiency and emission rates of control devices shall be determined by CARB Method TP-203.1.

B. Collection Efficiency: Collection efficiency shall be determined using Environmental Protection Agency Guidelines for Developing Capture Efficiency Protocols, 55 Federal Register 26865, June 29, 1990.

C. Leak Detection: U.S. EPA Reference Method 21.

D. Vapor Pressure: Vapor pressure may be obtained from standard reference texts or may be determined by ASTM D-2879-83 or ASTM D-323-82.

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RECORDKEEPING AND REPORTING REQUIREMENTS

10. The following record shall be continuously maintained onsite for the most recent five year period and shall be made available to the SMAQMD Air Pollution Control Officer upon request. Quarterly and yearly records shall be made available for inspection within 30 days of the end of the reporting period.

Frequency	Information to be recorded for Storage Tank No. 113
Each time the tank is filled with a different product.	A. Type of product. B. Date of the filling. C. Reid Vapor Pressure ranges of the product. D. True Vapor Pressure ranges of the product (psia).
Daily (A)	E. Actual storage temperature (degrees Fahrenheit, ambient temperature may be used in this regard).
Quarterly	F. Quarterly organic liquid throughput (gallons/quarter)
Yearly	G. Monitoring data required by Condition No. 8.

(A) When daily temperature data is required to calculate emissions, the permittee may use National Weather Service data from the nearest ambient temperature monitoring site.

11. A written notification shall be submitted to the SMAQMD Air Pollution Control Officer by the date indicated and shall contain the following information.

Frequency	Information to be submitted
At least 30 days prior to storing a new organic liquid in Tank 113	A. The organic liquid currently stored. <ul style="list-style-type: none"> i. Date when storage began for this organic liquid. B. The organic liquid proposed to be stored. <ul style="list-style-type: none"> i. The Toxic Air Contaminant (TAC) components of the proposed organic liquid. ii. Date when storage is to begin for this proposed organic liquid. iii. A Health Risk Assessment evaluating the risk associated with the TACs of the proposed organic liquid that shows compliance with SMAQMD acceptable risk levels..

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EMISSION TESTING REQUIREMENTS

No periodic emission testing requirements.

Your application for this air quality Authority to Construct was evaluated for compliance with Sacramento Metropolitan Air Quality Management District (SMAQMD), state and federal air quality rules. The following rules are those that are most applicable to the operation of your equipment. Other rules may also be applicable.

<u>SMAQMD Rule No.</u>	<u>Rule Title</u>
201	General Permit Requirements
202	New Source Review
301	Permit Fees - Stationary Source
402	Nuisance
446	Storage of Petroleum Products

In addition, the conditions on this Authority to Construct may reflect some, but not all, requirements of these rules. There may be other conditions that are applicable to the operation of your equipment. Future changes in prohibitory rules may establish more stringent requirements which may supersede the conditions listed here.

For further information please consult your SMAQMD Rulebook or contact the SMAQMD for assistance.