

**V. EQUIPMENT SPECIFIC REQUIREMENTS – GASOLINE STORAGE AND DISPENSING FACILITY**

**A. EQUIPMENT DESCRIPTION:** The information specified under this section is enforceable by the SMAQMD, U.S. EPA and the public.

The requirements specified under the following sections apply to the following equipment:

**Gasoline Dispensing Facility**

P/O No. 21510 (for reference purposes only - not federally enforceable)  
 Number/Size of Tanks: (2) 10,000 gallon gasoline underground  
 (1) 10,000 gallon diesel underground (for informational purposes only - not federally enforceable)  
 Phase I Type: Two point  
 Number of Gasoline Nozzles: 3  
 Number of Diesel Nozzles: 1 (for informational purposes only - not federally enforceable)  
 Phase II Type: Healy EVR, No ISD

**B. EQUIPMENT SPECIFIC FEDERALLY ENFORCEABLE REQUIREMENTS:** The requirements specified under this section are enforceable by the SMAQMD, U.S. EPA and the public.

**EMISSIONS LIMITS**

1. Reactive Organic Compound (ROC) emissions and gasoline throughput from this facility shall not exceed:

**[Basis: SMAQMD Rules 201 and 202]**

Pollutant	Emission Factor (A) (lb/1000 gallon)	Gasoline Throughput		Maximum Allowable Emissions (B)	
		(gal/qtr)	(gal/year)	(lb/qtr)	(lb/year)
ROC	1.27	250,000	599,999	318	762

(A) Emission factor is from California SMAQMD Air Pollution Control Officers Association *Gasoline Service Station Industrywide Risk Assessment Guidelines*, Appendix A, Scenario 6B, December 1997.

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2. Combined emissions from the following equipment shall not exceed the following limits:  
**[Basis: SMAQMD Rules 201 and 202]**

Permit Number	Equipment	Maximum Allowable Combined Emissions (A) (lb/day)		
		NOx	ROC	PM10
12979	Boilers (8), total of 3.2 MMBTU/hr	150	150	80
17549	Gas turbine and associated cooling towers, 260 MMBTU/hr			
20216	Boiler No. 1, 31.5 MMBTU/hr			
20217	Boiler No. 2, 31.5 MMBTU/hr			
20218	Boiler No. 3, 31.5 MMBTU/hr			
20219	Boiler No. 4, 31.5 MMBTU/hr			
21510	Gasoline dispensing			

(A) Compliance with these emission limitations shall be determined by using the calculation methods specified in Attachment A in the Gas Turbine section of the permit.

**EQUIPMENT DESIGN, OPERATION AND MONITORING REQUIREMENTS**

3. Any person(s) engaged in the installation, alteration, repair, or replacement of a vapor recovery system or its components shall meet the following requirements:
- A. Are certified by the International Code Council (ICC) for vapor recovery system testing and repair.
  - B. If required by the Executive Order, be certified by the system manufacturer.
  - C. Maintain and make available any and all certification as required in paragraph A and B.  
**[Basis: SMAQMD Rule 448]**
4. The requirements of Condition No. 3 shall not apply to the owner/operator of a gasoline dispensing facility or his/her direct employee(s) when replacing any defective nozzles, hoses and breakaways with new or CARB certified re-manufactured components of the same make and model, or alternatives specifically identified in the latest applicable CARB Executive Order. Any replacement allowed under this condition must be performed in accordance with the applicable Executive Order.  
**[Basis: SMAQMD Rule 449]**

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5. The gasoline dispensing facility shall be maintained and operated in accordance with the following California Air Resources Board (CARB) Executive Orders. Section 41954(F) of the California Health and Safety Code Prohibits the installation of any vapor control system unless the system has been certified by the state board.

**[Basis: SMAQMD Rules 201, 448 and 449]**

Executive Order	Description
VR-102	OPW Phase I Enhanced Vapor Recovery System
VR-201	Healy Systems Inc. Phase II Enhanced Vapor Recovery (EVR)

6. The vapor recovery system shall be operated in accordance with the applicable California Air Resources Board certification, the manufacturer's specifications and maintained to be leak-free, vapor tight and in good working order.

**[Basis: SMAQMD Rules 201, 448 and 449]**

7. All equipment shall be operated and maintained without any of the applicable defects listed in the vapor recovery equipment defects (VRED) list.

**[Basis: SMAQMD Rules 201, 448 and 449]**

8. The owner/operator of a vapor recovery system shall have available an Operation and Maintenance Manual. The manual shall be kept on-site and made available to any person who operates, inspects, maintains, repairs or tests the vapor recovery equipment as well as the SMAQMD Air Pollution Control Officer upon request. The manual shall, at a minimum, include the following current information:

A. All applicable CARB Executive Orders, approval letters and SMAQMD permits.

B. Manufacturer's manual(s) for installation, operation and maintenance procedures as required to be provided by CARB Certification Procedure CP-201 and any additional instruction provided by the manufacturer.

C. System and/or component testing requirements, including test schedules and passing criteria for each of the standard tests listed in SMAQMD Rules 448 and 449, and

D. Protocol for performing daily maintenance inspections, including the components to be inspected and the defects requiring repair.

**[Basis: SMAQMD Rules 201, 448 and 449]**

9. Maintenance inspections:

A. Except as provided in Condition No. 10, maintenance inspection shall be conducted for each day the vapor recovery system is operated to ensure that vapor recovery system components that are verifiable through direct measurement or observation are in proper working order. Any equipment with a major defect listed in the VRED list, shall be removed from service and tagged to ensure that it is not used until it is repaired and brought into compliance before being returned to service.

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B. Weekly, quarterly, and annual inspections and testing shall be conducted in accordance with the applicable CARB approved IOM Manual.

**[Basis: SMAQMD Rules 201, 448 and 449]**

10. The maintenance inspection requirements in Condition No. 9 shall not be required on Saturdays, Sundays and holidays for gasoline dispensing facilities with a six month average monthly gasoline throughput of less than 100,000 gallons.

**[Basis: SMAQMD Rules 201, 448 and 449]**

11. The owner or operator of a vapor recovery system shall ensure that the removal from service of one component of a vapor recovery system with multiple components will not result in gasoline liquid or vapors entering the atmosphere.

**[Basis: SMAQMD Rules 201, 448 and 449]**

12. Defects discovered during the maintenance inspection and repaired in accordance with Title 17, Division 3, Subchapter 7.5, Chapter 1, Section 93101 of the California Code of Regulations such that after repair gasoline liquid or vapors do not enter the atmosphere shall not constitute a violation of Rule 449

**[Basis: SMAQMD Rules 201 and 449]**

### **TESTING**

13. The following performance and reverification tests are applicable to the gasoline dispensing facility and shall be conducted and passed once every twelve months.

A. Static pressure (leak decay) test, in accordance with CARB Test Procedure TP-201.

B. Dynamic back-pressure test, in accordance with the Bay Area Air Quality Management District Manual of Procedures, Source Test Procedure ST-27 or CARB Test Procedure TP-201.

C. Determination of static pressure performance of the Healy clean air separator, in accordance with CARB Executive Order VR-201.

D. Vapor to liquid volume ratio for Healy Phase II EVR system, in accordance with CARB Executive Order VR-201.

E. Nozzle bag test procedure, in accordance with CARB Executive Order VR-201.

F. Static torque of rotatable Phase I adapters, in accordance with CARB Test Procedure TP-201.1B.

G. Pressure integrity of drop tube/drain valve assembly, in accordance with CARB Test Procedure TP-201.1C.

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- H. Dispenser vapor tightness test, in accordance with Healy CARB approved IOM manual.
  - I. Any other test required by applicable CARB Executive Order.  
**[Basis: SMAQMD Rule 201]**
14. Any person who conducts performance and reverification tests shall meet all of the following:
- A. Be certified by the International Code Council (ICC) for vapor recovery system testing and repair.
  - B. If required by the CARB Executive Order, be certified by the system manufacturer.
  - C. Maintain and make available any and all certifications as required in Paragraph A and B.  
**[Basis: SMAQMD Rule 449]**

### **RECORDKEEPING, REPORTING AND NOTIFICATION REQUIREMENTS**

15. At least 7 days prior to the performance of reverification testing, the owner or operator shall notify the SMAQMD Air Pollution Control Officer of the exact date and time of the test. If the vapor recovery system fails any of the applicable tests and the necessary repairs are performed that same day, the owner or operator may retest the vapor recovery system on the same day without re-notification, provided that the reasons for the test failure and any repairs performed are properly documented in the test reports and repair records.  
**[Basis: SMAQMD Rules 201, 448 and 449]**
16. Results of the reverification tests shall be delivered to the SMAQMD Air Pollution Control Officer within thirty days of completion of the tests. The test results shall contain the following information:
- A. Name, location, address, and telephone number of the facility tested, and the SMAQMD permit number.
  - B. Name, address and phone number of the person or company performing the test.
  - C. Date of the test.
  - D. Test data.
  - E. Number of nozzles tested.
  - F. Number of tanks tested
  - G. Statement of pass or fail.  
**[Basis: SMAQMD Rule 201]**
17. The following records shall be continuously maintained on site for the most recent five year period and shall be made available to the SMAQMD Air Pollution Control Officer upon request. Monthly and quarterly records shall be made available for inspection within 30 days of the end of the previous month or quarter respectively.  
**[Basis: SMAQMD Rule 201]**

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Frequency	Information to be recorded
At all times	A. Maintenance records for the vapor recovery system. B. Repair records for the vapor recovery system. C. Daily maintenance inspection reports. D. Performance test results. E. Reverification of performance test results.
Daily	F. Daily maintenance inspection reports including at least the following: <ul style="list-style-type: none"> <li>i. Date and time of inspection.</li> <li>ii. List of defects from the VRED list that are applicable to the vapor recovery equipment and have a verification procedure of "direct observation" or "direct measurement."</li> <li>iii. Notation by person performing inspection whether each defect is present.</li> <li>iv. Description of any defects discovered.</li> <li>v. Action taken upon discovery of a defect.</li> <li>vi. Name and signature of person performing inspection.</li> </ul> G. Total NOx, ROC and PM10 emissions as limited in Condition No. 2 pursuant to the calculation method outlined in Attachment A in the Gas Turbine section of the permit. (pounds/day)
Weekly	H. Inspection and testing checklist as required by the Healy IOM manual.
Monthly	I. Total gasoline throughput. (gallons per month)
Quarterly	J. Total gasoline throughput. (gallons per quarter) K. Inspection and testing checklist as required by the Healy IOM manual.
Annually	L. Inspection and testing checklist as required by the Healy IOM manual.

## VI. INSIGNIFICANT EMISSIONS UNITS

The following systems are considered insignificant emissions units and are not subject to equipment-specific requirements. However, these units are required to comply with all applicable general requirements:

Equipment Description	Basis for the Exemption
1. Vehicles used to transport passengers or freight	Rule 201 Section 111.1
2. Internal combustion engines rated at 50 hp or less	Rule 201 Section 112.1
3. Combustion equipment with less than 1 million BTU/hr capacity and fired exclusively with natural gas or liquefied petroleum gas	Rule 201 Section 112.2
4. Refrigeration, air conditioning, ventilating, water cooling towers or vacuum cleaning systems not designed to remove air contaminants generated by equipment which would require a permit under SMAQMD Rule 201	Rule 201 Section 115
5. Ovens, kilns, or furnaces fired by electricity and used exclusively for the heating, curing, softening, or annealing of plastics or ceramics which emit 5 lb/day or less of volatile organic compounds (Not applicable to fiberglass reinforced plastics.)	Rule 201, Section 116
6. Containers or tanks used exclusively for the storage of liquefied or compressed gases	Rule 201 Section 117.1
7. Containers or tanks used exclusively for the storage of unheated organic materials with an initial boiling point of 302 degrees F or greater or with an organic vapor pressure of 0.1 psia or less (at 20 degrees C)	Rule 201 Section 117.2
8. Containers, tanks or associated transfer equipment used exclusively for the storage of organic liquids with a vapor pressure of 1.5 psia or less (at 20 degrees C) and having a storage capacity of 6076 gallons or less	Rule 201 Section 117.3
9. Unheated solvent dispensing containers of 100 gallons or less capacity	Rule 201 Section 117.4
10. Surface coating operations using a combined total of 1 gallon/day or less of coating materials and solvents	Rule 201 Section 118.2
11. Unheated non-conveyorized solvent rinsing tanks or unheated non-conveyorized coating dip tanks of 100 gallons or less capacity	Rule 201 Section 118.3

## VI. INSIGNIFICANT EMISSIONS UNITS

Equipment Description	Basis for the Exemption
12. Food processing equipment and exhaust systems for food preparation establishments	Rule 201 Section 119
13. Laboratory equipment used exclusively for chemical and physical analysis and bench scale tests, including associated vacuum producing equipment	Rule 201 Section 120
14. Repairs and maintenance not involving changes to any equipment for which a permit has been granted under Section 301 of SMAQMD Rule 201	Rule 201 Section 121
15. Other equipment deemed by the SMAQMD Air Pollution Control Officer and which would emit any pollutant, without the benefit of air pollution control devices, at a rate less than 2 pounds in any 24 hour period	Rule 201 Section 122, less than 2 lb in any 24 hour period
16. Abrasive blast cabinet/dust filter units with an internal cabinet volume of 53 cubic feet or less	Rule 201, Section 122
17. Wood sanding processes vented to a cyclone or baghouse with an exhaust flow rate of 1500 cfm or less	Rule 201, Section 122
18. Wood shaping and sizing processes, not involving wood sanding process, vented to a cyclone or baghouse with an exhaust flow rate of 12,000 cfm or less.	Rule 201, Section 122
19. Medical waste microwave disinfection.	Rule 201 Section 122, less than 2 lb in any 24 hour period

## **VII. ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE**

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Acronyms, abbreviations and units of measure used in this permit are defined as follows:

**ASTM**

American Society for Testing and Materials

**BACT**

Best Available Control Technology.

**CAA**

The federal Clean Air Act.

**CARB**

California Air Resources Board.

**CFC**

Chloro-fluoro-carbons. A class of compounds responsible for destroying ozone in the upper atmosphere.

**CFR**

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

**CO**

Carbon monoxide.

**CO<sub>2</sub>**

Carbon dioxide.

**ERC**

Emission reduction credit.

**Federally Enforceable**

All limitations and conditions which are enforceable by the Administrator of the U.S. EPA including those requirements developed pursuant to 40 CFR Part 51, Subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (HAP) and Part 72 (Permits Regulation, Acid Rain) including limitations and conditions contained in operating permits issued under a U.S. EPA approved program that has been incorporated into the California SIP.

**NESHAP**

National Emission Standards for Hazardous Air Pollutants (see 40 CFR Parts 61 and 63).

**NO<sub>x</sub>**

Nitrogen oxides.

## **VII. ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE**

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### **NSPS**

New Source Performance Standards. U.S. EPA standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the federal Clean Air Act and implemented by 40 CFR Part 60 and SMAQMD Regulation 8.

### **NSR**

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and SMAQMD Rule 202. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

### **O<sub>2</sub>**

Oxygen.

### **Offset Requirement**

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of ROC, NO<sub>x</sub>, SO<sub>2</sub> and PM<sub>10</sub>.

### **PM**

Particulate matter.

### **PM<sub>10</sub>**

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns.

### **PSD**

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the SMAQMD is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the federal Clean Air Act and implemented by 40 CFR Part 52.

### **ROC**

Reactive organic compounds.

### **SIP**

State Implementation Plan. CARB and SMAQMD programs and regulations approved by U.S. EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the federal Clean Air Act.

### **SMAQMD**

Sacramento Metropolitan Air Quality Management District.

### **SO<sub>2</sub>**

Sulfur dioxide.

## VII. ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE

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### **Title V**

Title V of the federal Clean Air Act. Title V requires the SMAQMD to operate a federally enforceable operating permit program for major stationary sources and other specified sources.

### **TSP**

Total suspended particulate.

### **U.S. EPA**

The federal Environmental Protection Agency.

### **VOC**

Volatile Organic Compounds.

### **UNITS OF MEASURE:**

BTU	=	British Thermal Unit
cfm	=	cubic feet per minute
cm	=	centimeter
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inch
kg	=	kilogram
kscfh	=	thousands of standard cubic feet per hour
max	=	maximum
m <sup>2</sup>	=	square meter
min	=	minute
mm	=	millimeter
MM	=	million
ppmv	=	parts per million by volume
ppmw	=	parts per million by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge