



South Coast Air Quality Management District



21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

July 1, 2011

Mr. Gerardo Rios
Chief, Permits Office
U. S. EPA, Region IX, Air-3
75 Hawthorne Street
San Francisco, CA 94105

Dear Mr. *Rios*:

The South Coast Air Quality Management District (AQMD) has received from Costco Wholesale an application for a permit to construct and operate a fuel storage and dispensing system. Pursuant to AQMD Rule 212 - Standards for Approving Permits and Issuing Public Notice, subdivision (g), new or modified sources exceeding any of the specified daily maximums are subject to the public notification and comment provisions of 40 CFR Part 51, Section 51.161(b), and 40 CFR Part 124, Section 124.10.

The AQMD has evaluated this application and made a preliminary determination that the equipment will operate in compliance with all of the applicable requirements of our Rules and Regulations. Therefore, the AQMD is proposing to issue a permit to Costco Wholesale to install a fuel storage and dispensing system at their Huntington Beach facility. Costco Wholesale has requested to keep the throughput information as confidential.

Please find enclosed a public notice for Costco Wholesale issued in accordance with Rule 212(g). The public notice provides for a 30-day comment period prior to making a final decision on the issuance of the permit, and is also being published in a newspaper of general circulation in the vicinity of this facility. This notice is also being sent to the California Air Resources Board, the County of Orange, the City of Huntington Beach, the Southern California Association of Governments, and the State and Federal Land Managers.

If you have any questions or wish to provide comments regarding this project, please call the processing engineer, Randy Matsuyama, at (909) 396-2551 prior to August 5, 2011.

Sincerely,

William C. Thompson, P. E.
Senior AQ Engineering Manager
Engineering and Compliance

WCT:jrm
Attachment



South Coast Air Quality Management District



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NOTICE OF INTENT TO ISSUE A "PERMIT TO CONSTRUCT AND OPERATE" PURSUANT TO RULE 212

This notice is to inform you that the South Coast Air Quality Management District (AQMD) has received an application to construct and operate a gasoline storage and dispensing facility in your neighborhood. The AQMD is the air pollution control agency for all of Orange County and portions of Los Angeles, Riverside and San Bernardino Counties. Anyone wishing to, install, operate or modify equipment that could be a source of air pollution within this region must first obtain a permit from the AQMD. Rule 212 requires the applicant for certain projects to distribute a public notice prepared by the AQMD prior to the issuance of a permit. This notice is being distributed because the project will exceed the daily maximum emissions for volatile organic compounds (VOC).

The AQMD has evaluated the permit application for the following equipment and determined that the equipment will meet all applicable air quality requirements of our Rules and Regulations:

Applicant: COSTCO WHOLESALE CORPORATION/COSTCO GASOLINE
Application Number: 523805
Location Address: NWC BEACH BLVD./EDINGER AVENUE, HUNTINGTON BEACH, CA 92649
Project Description: INSTALL AND OPERATE A RETAIL GASOLINE STORAGE AND DISPENSING FACILITY

Costco Wholesale Corporation, is in the business of retail gasoline sales. This gasoline storage and dispensing facility will be used to store and dispense gasoline to motor vehicles.

The gasoline station will use the best available technology for controlling air pollution. Gasoline contains volatile organic compounds (VOC) that evaporate into the air during normal gasoline storage and dispensing operations. Maximum VOC emissions from the gasoline storage and dispensing facility will be less than 41 pounds per day. Generally, the amount will be less as most gasoline facilities do not operate at their maximum potential. The operation of this gasoline facility will also emit small quantities of some toxic compounds mainly benzene. The AQMD has evaluated the short term (acute) and long term (chronic) health impacts associated with the maximum potential emissions. Using worst case conditions, our evaluation shows that the chronic and acute health risks are both well below our rule's toxic thresholds (below a Hazard Index of 1). According to the state health experts, a hazard index of one or less means that the surrounding community including the most sensitive individuals such as very young children and the elderly will not experience any adverse health impacts due to the toxic nature of these emissions. In addition, the long term cancer risk from these emissions is below the AQMD risk threshold of ten in a million for equipment using the best available control technology for toxics.

The air quality analysis of this project is available for public review at the AQMD's headquarters in Diamond Bar. A copy of the draft permit to construct and operate can be viewed at www.aqmd.gov/webapp/PulbicNotice/Search.aspx by entering the company's name. Information regarding the facility owner's compliance history submitted to the AQMD pursuant to California Health & Safety Code Section 42336, or otherwise known as AQMD, based on credible information, is also available from the AQMD for public review. Anyone wishing to comment on the proposed issuance of this permit should submit their comments in writing within 30 days of the distribution date shown below. If you are concerned primarily about zoning decisions and the process by which this facility has been sited at this location, you should contact your local city or county planning department. Please submit comments related to air quality to Mr. Randy Matsuyama, Air Quality Engineer, Operations Team, Engineering and Compliance, South Coast Air Quality Management District, 21865 Copley Drive, Diamond Bar, California 91765-4178. For additional information, please call Mr. Randy Matsuyama at (909) 396-2551.

For your general information, anyone experiencing air quality problems such as dust or odor can telephone in a complaint to the AQMD by calling 1-800-CUT-SMOG (1-800-288-7664).

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	ENGINEER JM04	CHECK BY

EVALUATION FOR PERMIT TO CONSTRUCT/OPERATE

APPLICANT'S NAME: COSTCO WHOLESALE (COSTCO GASOLINE LOC. N

MAILING ADDRESS: 18215 S 72ND AVE
KENT, WA 98032

EQUIPMENT ADDRESS: NWC BEACH BLVD & EDINGER AVE, HUNTINGTON BEACH, CA
92649

EQUIPMENT DESCRIPTION:

Fuel Storage and Dispensing Facility Consisting of:

- 1) 3 - GASOLINE UNDERGROUND STORAGE TANKS, EACH 30,000 GALLON CAPACITY, EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM PHIL-TITE (VR-101-L), 3 METHANOL COMPATIBLE.
- 2) 16 - GASOLINE BELLOWS-LESS NOZZLES DISPENSING 32 PRODUCTS EQUIPPED WITH PHASE II VAPOR RECOVERY SYSTEM, HEALY PHASE II ENHANCED VAPOR RECOVERY (EVR) SYSTEM INCLUDING VEEDER-ROOT IN-STATION DIAGNOSTICS (ISD) SYSTEM (VR-202-M).

BACKGROUND HISTORY:

The planned installation of this equipment at the above equipment address will be 7/1/2011. This application was submitted for a new installation on 6/14/2011. The facility's proposed normal operating schedule is as follows: 16 hours/day, 7 days/week, 30 days/month and 52 weeks/year. This is a retail gasoline storage and dispensing facility. No record of Notice to Comply was found in the Inspector Report files. No record of Notice of Violation was found in the Inspector Report files. The District database shows that no applications were previously filed for this equipment.

PROCESS DESCRIPTION:

The gasoline storage and dispensing facility is used to store and dispense two different grades of gasoline. This facility is equipped with CARB certified Phase I and Phase II vapor controls, which complies with Rule 461. Furthermore, these vapor controls are considered to be T-BACT, which complies with Rule 1401. Finally, the project will result in a net emission increase and thus will comply with Reg. XIII.

EMISSION CALCULATIONS:

The hydrocarbon and toxic air emissions from storage tank filling and transfer operations are estimated by using appropriate emission factors summarized in the following table. The factors are based on a combination of CAPCOA, CARB and SCAQMD documents and findings. The maximum individual cancer risk (MICR) calculations are based on the emissions of benzene, ethyl benzene and naphthalene. The non-cancer hazard index, chronic and acute health calculations are based the following pollutants.

Chronic HI: benzene, ethylbenzene, toluene, xylene, naphthalene, n-hexane, and methanol

Acute HI: benzene, toluene, xylene and methanol.

The chronic and acute non-cancer health effects are not being calculated in this evaluation. This is based on AQMD's analysis that for the maximum permitted risk of 10 in a million, the Hazard Index for acute and chronic is insignificant (< 0.1).

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I. Emission Factors and Control Efficiencies

The following table summarizes the uncontrolled ROG emission factors in pounds per 1,000 gallons of gasoline throughput, benzene, ethylbenzene and naphthalene content of gasoline, and control efficiencies:

Emission Factors and Control Efficiencies for Underground Tanks

	Loading (a)	Breathing	Refueling (b)	Spillage
ROG				
Uncontrolled ROG Emission Factors (lbs/1000 gal)	8.40	0.10	8.30	0.24 (c)
Control Efficiency	95.000%	75.000%	96.145%	0%
controlled ROG Emission Factors (lbs/1000 gal)	0.420	0.025	0.320	0.240
Toxic Air Contaminants (TACs) wt% (d)				
Benzene	0.300%	0.300%	0.300%	1.000%
Ethyl benzene	0.118%	0.118%	0.118%	1.640%
Naphthalene	0%	0%	0%	0.140%

- (a) Revised from 90% assumed by CAPCOA to 95% based on SCAQMD's finding
- (b) Revised from 99% assumed by CAPCOA to ~96% based on SCAQMD's finding.
- (c) Spillage emission factor was revised from 0.42 to 0.24 based on EVR Regulation.
- (d) Specification profiles for TACs are from <http://www.arb.ca.gov/ei/speciate/speciate.htm>

II. MICR Calculations

The following equations are used for calculating ROG emissions and MICR from gasoline dispensing operations.

Net Increased Throughput = Proposed throughput - Total permitted throughput prior to the modification or average throughput for the last two years

ROG, uncontrolled = EF (lbs-ROG/1,000 gals gas) x Proposed gas throughput (1,000 gals/month)
 ROG, controlled = ROG, uncontrolled x Control Efficiency

Benzene, uncontrolled = ROG, uncontrolled x Benzene Content in gasoline
 Benzene, controlled = ROG, controlled x Benzene Content in gasoline

Ethyl benzene, uncontrolled = ROG, uncontrolled x Ethyl benzene Content in gasoline
 Ethyl benzene, controlled = ROG, controlled x Ethyl benzene Content in gasoline

Naphthalene, uncontrolled = ROG, uncontrolled x Naphthalene Content in gasoline
 Naphthalene, controlled = ROG, controlled x Naphthalene Content in gasoline

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Total Emission Increase - Underground Tanks

Proposed GA Throughput (Gals/Month) 1200000
 Average GA Throughput (Gals/Month) 0
 Net GA Throughput (Gals/Month) 1200000

The Total Emissions are as follows:

Emission (lbs/month)		Process Type				Total ROG
		Loading	Breathing	Refueling	Spillage	
ROG	R1	10080.000	120.000	9960.000	288.000	20448.000
	R2	504.000	30.000	383.958	288.000	1205.958
Benzene	R1	30.240	0.360	29.880	2.880	63.360
	R2	1.512	0.090	1.152	2.880	5.634
Ethyl benzene	R1	11.894	0.142	11.753	4.723	28.512
	R2	0.595	0.035	0.453	4.723	5.806
Naphthalene	R1	0.000	0.000	0.000	0.403	0.403
	R2	0.000	0.000	0.000	0.403	0.403

III. Summary of Emissions

	Total ROG		Total Benzene Ethyl Benzene & Naphthalene	
	R1	R2	R1	R2
Monthly (lb/mo)	20448.00	1205.96	92.270	11.840
30-day average (lb/day)	681.60	40.20	3.070	0.390
Hourly (lb/hr)	42.60	2.51	0.190	0.020

CANCER RISK ASSESSMENT:

From gasoline storage and dispensing operations, benzene is the only toxic emittant that has significant effect to the maximum individual cancer risk (MICR). Using the CAPCOA provided risk values, the staff in the District's Planning Division prepared reference MICR's for different scenarios, i.e., for underground and aboveground tanks, and for residence and workers. These MICR's are tabulated for different downwind distances from a permit unit that is located in West LA with annual gasoline throughput of one million gallons.

Once a reference MICR is determined for a given downwind distance, it has to be adjusted by using the MET factor to reflect the meteorological conditions of a permit unit's location and the actual fuel throughput of a permit unit.

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The following is the parameters used for calculating the MICR for this application. The distances are from the center of emission source to the nearest receptor areas:

Tank Type	= Underground
GA Throughput (MMGals-GA/Year)	= 14.4000
Facility Zone	= 18
MET Factor	= 1.08
Downwind Distance to Residence (Meters)	= 304
Downwind Distance to Workers (Meters)	= 37

A reference MICR is determined for a given downwind distance in the following manner:

1. If the downwind distance is less than or equal to minimum pre-defined distance, use the MICR at the minimum distance.
2. If the downwind distance is greater than or equal to maximum pre-defined distance, use the MICR at the maximum distance.
3. Find MICRs two distances, i.e., one for nearest higher distance and the other one for nearest lower distance, and interpolate them.

$$\text{MICR, ref} = \text{MICR, low} + [(\text{MICR, high} - \text{MICR, low}) / (\text{High Distance} - \text{Low Distance})] \\ * (\text{Downwind Distance} - \text{Low Distance})$$

where,

MICR, ref	Reference MICR at a given downwind distance
MICR, low	MICR at a lower interpolate distance
MICR, high	MICR at a higher interpolate distance
Low Distance	Lower interpolate distance
High Distance	Higher interpolate distance
Downwind Dist	Given downwind distance

MICR - Underground Tanks

MICR for Residences

$$\text{Reference MICR [in-a-million / (1 MMGal-GA/Year)]} \\ = 0.043$$

Adjusted MICR (in-a-million)

$$= (\text{Reference MICR}) \times (\text{MET factor}) \times (\text{Annual Fuel Throughput}) \\ = 0.043 \times 1.08 \times 14.4000 = 0.669$$

MICR for Workers

$$\text{Reference MICR [in-a-million / (1 MMGal-GA/Year)]} \\ = 0.431$$

Adjusted MICR (in-a-million)

$$= (\text{Reference MICR}) \times (\text{MET factor}) \times (\text{Annual Fuel Throughput}) \\ = 0.431 \times 1.08 \times 14.4000 = 6.703$$

Modeling Assumptions:

The modeling assumes the generic station operates 24 hours/day, with 80% of the emissions occurring between 6:00 AM and 8:00 PM, and the remaining 20% of the emissions occurring between 8:00 PM and 6:00 AM. In addition, the refueling and spillage emissions were modeled as volume sources and the loading and breathing emissions as point sources.

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Risk Calculations:

The revised risk calculation for 1,000,000 gallons a year throughput for the different distances (20, 25, 30.....1000 meters) are based on the inhalation cancer potency factor of 0.1/(mg/kg-day) for benzene, 0.0087/(mg/kg-day) for ethyl benzene, and 0.12/(mg/kg-day) for naphthalene.

RULES EVALUATION:**Rule 212**

There is no school located within 1,000-feet from this facility. The maximum individual cancer risk is less than ten-in-one million. Public notice is *not* exempt, *since ROG emissions are greater than 30 lbs/day*

Rule 461

All gasoline tanks are equipped with CARB certified Phase I vapor controls and will be installed per CARB executive order VR-101. All tanks are also equipped with submerged fill tubes and pressure vacuum relief valves. All nozzles serving the gasoline tanks are equipped with CARB certified Phase II vapor controls and will be installed per CARB executive order VR-202. Therefore, this facility complies with Rule 461.

Rule 1170

The underground storage tanks located at this facility are methanol compatible. Therefore, the provisions of this rule have been achieved.

Rule 1401

The facility's MICR to the most sensitive area is 6.70 in-a-million. Furthermore, the gasoline storage tank and dispensing equipment are equipped with Phase I and Phase II vapor controls, respectively. The controls are considered to be T-BACT. Therefore, this facility complies with Rule 1401.

Rule 1401.1

The rule DOES NOT apply as there is no school located within 1,000 feet of this facility.

Rule REGXIII

The emission associated with this operation have been calculated to be 40 pounds/day. Offsets are required since the facility's PTE for ROG's is greater than 4 tons/year. BACT requirements have been met with compliance with Rule 461 and 462. No modelling was required for ROG's. Current BACT conditions are met with the installation of both Phase I and Phase II vapor controls. This permit currently contains a monthly throughput condition. This facility complies with Rule 1313.

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Reference MICR Chart - Under Ground Tanks

MICR for Residential Areas - Under Ground Tanks per One Million Gallons for Gasoline

Dist(m)	20	25	30	40	50	60	70	75	80	90
MICR	5.600	4.000	3.004	1.866	1.278	0.940	0.722	0.636	0.572	0.462

Dist(m)	100	125	150	175	200	250	300	350	400	450
MICR	0.381	0.248	0.174	0.125	0.095	0.060	0.044	0.034	0.027	0.022

Dist(m)	500	600	700	800	900	1000				
MICR	0.018	0.014	0.011	0.009	0.007	0.006				

MICR for Commercial Areas - Under Ground Tanks per One Million Gallons for Gasoline

Dist(m)	20	25	30	40	50	60	70	75	80	90
MICR	1.094	0.781	0.587	0.364	0.250	0.184	0.141	0.124	0.112	0.090

Dist(m)	100	125	150	175	200	250	300	350	400	450
MICR	0.074	0.049	0.034	0.024	0.018	0.012	0.009	0.007	0.005	0.004

Dist(m)	500	600	700	800	900	1000				
MICR	0.004	0.003	0.002	0.002	0.001	0.001				

MET Factors for Facility Zones (Underground Tanks)

Zone	01	02	03	04	05	06	07	08	09	10	11	12
MET	0.86	1.00	0.90	1.04	0.80	0.95	0.89	1.04	1.04	1.14	0.80	1.18

Zone	13	15	16	17	18	19	20	21	22	23	24	25
MET	0.70	0.70	0.96	0.91	1.08	0.71	1.08	0.71	0.91	0.91	0.81	0.79

Zone	26	27	28	29	30	31	32	33	34	35	36	37
MET	0.79	0.79	0.81	0.83	1.00	1.00	1.05	1.05	1.06	1.35	1.05	1.01

Zone	38	39										
MET	1.35	0.00										

CONCLUSION & RECOMMENDATIONS:

This application is expected to comply with all applicable District Rules and Regulations. A Permit to Construct/Operate is recommended subject to the conditions as outlined in the sample permit.



South Coast Air Quality Management District

Form 400-A

Application For Permit To Construct and Permit To Operate

Mail Application To: P.O. Box 4944 Diamond Bar, CA 91765 Tel: (909) 396-3385 www.aqmd.gov

Section A: Operator Information

1. Business Name of Operator To Appear On The Permit: Costco Wholesale (Costco Gasoline Loc. No. TBD-Huntington Beach)
2. Valid AQMD Facility ID (Available on Permit or Invoice issued by AQMD): 161384
3. Owner's Business Name (only if different from Business Name of Operator): Costco Wholesale

Section B: Equipment Location

4. Equipment Location Address: NWC Beach Blvd & Edinger Avenue, Huntington Beach, CA, Contact Name: Dennis Bock, Contact Title: Env. Compliance Manager, Phone: (425) 313-8100, E-Mail: dbock@costco.com

Section C: Permit Mailing Address

5. Permit and Correspondence Information: 18215 72nd Avenue South, Kent, WA, Contact Name: Alexia Inigues, Contact Title: Project Planner, Phone: (425) 251-6222, E-Mail: ainigues@barghausen.com

Section D: Application Type

The facility is in RECLAIM Title V RECLAIM & Title V Program (please check if applicable)
6. Reason for Submitting Application (Select only ONE): New Construction (Permit to Construct)
7. Estimated Start Date of Operation/Construction (MM/DD/YYYY): 07/01/2011
8. Description of Equipment: construct: gasoline pump island canopy, 8 product dispensers, 3 30,000 gallon UGSTs, Healy System and associated product piping and monitoring equipment.
9. Is this equipment portable AND will it be operated at different locations within AQMD's jurisdiction? No
10. For identical equipment, how many additional applications are being submitted with this application? 0
11. Are you a Small Business as per AQMD's Rule 102 definition? No
12. Has a Notice of Violation (NOV) or a Notice To Comply (NC) been issued for this equipment? No

Section E: Facility Business Information

13. What type of business is being conducted at this equipment location? Retail Fuel Sales
14. What is your business's primary NAICS Code (North American Industrial Classification System)? 4471
15. Are there other facilities in the SCAQMD jurisdiction operated by the same operator? No
16. Are there any schools (K-12) within a 1000-ft. radius of the equipment physical location? No

Section F: Authorization/Signature I hereby certify that all information contained herein and information submitted with this application is true and correct.

17. Signature of Responsible Official: Dennis Bock
18. Title: Env. Compliance Manager
19. Print Name: Dennis Bock
20. Date: 06/10/2011
Check List: Form(s) signed and dated by authorized official, Supplemental Equipment Form (400-E-XX or 400-E-GEN), CEQA Form (400-CEQA) attached, Payment for permit processing fee attached

Table with columns: AQMD USE ONLY, APPLICATION TRACKING # (523805), TYPE (BCD), EQUIPMENT CATEGORY CODE, FEE SCHEDULE, VALIDATION (6-14-11), ASSIGNMENT (Engineer), CHECK/MONEY ORDER (#74972), AMOUNT (1,314.25), TRACKING # (CT95185)

PERMIT TO CONSTRUCT/OPERATE

A/N 523805

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

**Legal Owner
or Operator :**

COSTCO WHOLESALE (COSTCO GASOLINE LOC. 1)
18215 S 72ND AVE
KENT, WA 98032

ID 161384

Equipment Location: NWC BEACH BLVD & EDINGER AVE HUNTINGTON BEACH, CA 92649

Equipment Description:

Fuel Storage and Dispensing Facility Consisting of:

- 1) 3 - GASOLINE UNDERGROUND STORAGE TANKS, EACH 30,000 GALLON CAPACITY, EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM PHIL-TITE (VR-101-L), 3 METHANOL COMPATIBLE.
- 2) 16 - GASOLINE BELLOWS-LESS NOZZLES DISPENSING 32 PRODUCTS EQUIPPED WITH PHASE II VAPOR RECOVERY SYSTEM, HEALY PHASE II ENHANCED VAPOR RECOVERY (EVR) SYSTEM INCLUDING VEEDER-ROOT IN-STATION DIAGNOSTICS (ISD) SYSTEM (VR-202-M).

CONDITIONS

SECTION I: GENERAL CONDITIONS

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

SECTION II: PHASE I VAPOR RECOVERY SYSTEM AND TESTING REQUIREMENTS

3. EXCEPT FOR DIESEL TRANSFERS, PHASE I VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO STORAGE TANKS.

SAMPLE

PERMIT TO CONSTRUCT/OPERATE

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CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

4. DEPENDING ON THE SYSTEM CONFIGURATION, EITHER A LEAK RATE TEST OF DROP TUBE/DRAIN VALVE ASSEMBLY SHALL BE CONDUCTED TO QUANTIFY THE PRESSURE INTEGRITY OF BOTH THE DROP TUBE AND DRAIN VALVE SEAL OR A LEAK RATE TEST OF DROP TUBE OVERFILL PREVENTION DEVICE AND DRAIN VALVE SHALL BE CONDUCTED TO QUANTIFY THE PRESSURE INTEGRITY OF THE DROP TUBE OVERFILL PREVENTION DEVICE AND THE PRESSURE INTEGRITY OF THE SPILL CONTAINER DRAIN VALVE. EITHER TEST SHALL BE CONDUCTED IN ACCORDANCE WITH TEST PROCEDURE METHOD TP-201.1C (OCTOBER 8, 2003) OR TP-201.1D (OCTOBER 8, 2003), RESPECTIVELY. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.
5. A STATIC TORQUE TEST OF ROTATABLE PHASE I ADAPTORS SHALL BE CONDUCTED TO QUANTIFY THE AMOUNT OF STATIC TORQUE REQUIRED TO START THE ROTATION OF THE ROTATABLE PHASE I ADAPTORS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE TEST PROCEDURE METHOD OUTLINED IN TP-201.1B (OCTOBER 8, 2003) AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.
6. A LEAK RATE AND CRACKING PRESSURE TEST OF PRESSURE/VACUUM RELIEF VENT VALVES SHALL BE CONDUCTED WITHIN TEN DAYS (10) AFTER THE START OF OPERATION OF THE PHASE I EVR EQUIPMENT AND AT LEAST ONCE EVERY THREE (3) YEARS THEREAFTER TO DETERMINE THE PRESSURE AND VACUUM AT WHICH THE PRESSURE/VACUUM VENT VALVE ACTUATES, AND TO DETERMINE THE VOLUMETRIC LEAK RATE AT A GIVEN PRESSURE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE TEST PROCEDURE METHOD TP-201.1E (OCTOBER 8, 2003). RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST. THIS TEST RESULT SHALL BE KEPT ON SITE FOR THREE (3) YEARS AND MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

SECTION III: PHASE II VAPOR RECOVERY SYSTEM AND TESTING REQUIREMENTS

7. EXCEPT FOR DIESEL TRANSFERS, PHASE II VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO MOTOR VEHICLES, AS DEFINED IN RULE 461.
8. THE STATIC PRESSURE LEAK DECAY TEST TP-201.3, SHALL BE CONDUCTED IN ACCORDANCE WITH THE MOST RECENT VERSION OF EXHIBIT 8 OF CARB EXECUTIVE ORDER VR-202 VERIFICATION OF COMPLETING EACH STEP AS OUTLINED SHALL BE DOCUMENTED BY SUBMITTING A COPY OF EXHIBIT 8 TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.
9. A STATIC PRESSURE INTEGRITY TEST SHALL BE CONDUCTED TO DEMONSTRATE THAT THE STORAGE TANKS, THE REMOTE AND/OR NOZZLE VAPOR RECOVERY CHECK VALVES, ASSOCIATED VAPOR RETURN PIPING AND FITTINGS ARE FREE FROM VAPOR LEAKS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.3 (MARCH 17, 1999), AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.

SAMPLE

PERMIT TO CONSTRUCT/OPERATE

A/N 523805

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

10. THE PHASE II VAPOR RECOVERY SYSTEM SHALL BE INSTALLED, OPERATED, AND MAINTAINED SUCH THAT THE MAXIMUM ALLOWABLE PRESSURE THROUGH THE RISER, AND UNDERGROUND PIPING DOES NOT EXCEED THE DYNAMIC BACK PRESSURE DESCRIBED BY THE CALIFORNIA AIR RESOURCES BOARD EXECUTIVE ORDER BY WHICH THE SYSTEM WAS CERTIFIED:

NITROGEN FLOWRATES (CFH)	DYNAMIC BACK PRESSURE (INCHES OF WATER)
60	0.50

DYNAMIC BACK PRESSURE TESTS SHALL BE CONDUCTED AS A PERFORMANCE TEST TO DETERMINE THE PHASE II SYSTEM VAPOR RECOVERY BACK PRESSURES. THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE TP-201.4, METHODOLOGY 4 AND 6 (JULY 3, 2002); AS A PERFORMANCE TEST. THIS TEST SHALL BE A ONE-TIME TEST AND THE RESULTS KEPT PERMANENTLY ON SITE. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TESTS.

11. A STATIC PRESSURE PERFORMANCE TEST FOR THE FRANKLIN FUELING SYSTEMS CLEAN AIR SEPARATOR USING BOTH THE VACUUM DECAY PROCEDURE AND THE POSITIVE PRESSURE PROCEDURE SHALL BE CONDUCTED TO QUANTIFY THE VAPOR TIGHTNESS OF THE HEALY CLEAN AIR SEPARATOR TANK PRESSURE MANAGEMENT SYSTEM. THESE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF EXHIBIT 4 OF CARB EXECUTIVE ORDER VR-202 AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.
12. A VAPOR TO LIQUID VOLUME RATIO TEST SHALL BE CONDUCTED TO QUANTIFY THE VAPOR TO LIQUID (V/L) VOLUMETRIC RATIO OF THE HEALY CLEAN AIR SEPARATOR SYSTEM. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF EXHIBIT 5 OF CARB EXECUTIVE ORDER VR-202 AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.
13. A NOZZLE BAG TEST SHALL BE CONDUCTED ON THE HEALY PHASE II EVR NOZZLES TO VERIFY THE INTEGRITY OF THE VAPOR VALVE. THE TEST SHALL BE CONDUCTED ON ANY NEWLY INSTALLED OR REPLACED HEALY PHASE II EVR NOZZLES AND IN ACCORDANCE WITH THE LATEST VERSION OF EXHIBIT 7 OF CARB EXECUTIVE ORDER VR-202 RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.

SECTION IV: IN-STATION DIAGNOSTICS SYSTEM AND TESTING REQUIREMENTS

14. AN ISD SYSTEM VAPOR FLOW METER OPERABILITY TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF EITHER EXHIBIT 9 FOR THE VEEDER-ROOT ISD SYSTEM OR EXHIBIT 10 FOR THE INCON ISD SYSTEM OF CARB EXECUTIVE ORDER VR-202 TO VERIFY THE EQUIPMENT'S OPERABILITY FOR VAPOR CONTAINMENT MONITORING AND VAPOR COLLECTION MONITORING. THE TEST SHALL BE CONDUCTED AS A PERFORMANCE TEST AND REVERIFICATION TEST. FURTHERMORE, THE ISD OPERABILITY TEST SHALL BE CONDUCTED IMMEDIATELY WHENEVER A VAPOR PRESSURE SENSOR OR A VAPOR FLOW METER IS REPLACED. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.

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15. WITHIN TWO (2) HOURS OF DETECTING THE FIRST ISD WARNING ALARM BY THE ISD SYSTEM, THE FACILITY ATTENDANT SHALL NOTIFY THE RESPONSIBLE COMPANY OFFICIAL OR THEIR DESIGNEE AND REQUEST IMMEDIATE SERVICE TO CORRECT THE PROBLEM. ALL INFORMATION RELATING TO THE ALARM EVENT AND REPORTING SHALL BE IMMEDIATELY RECORDED ON AN AQMD APPROVED FORM AND SHALL BE MADE AVAILABLE TO THE DISTRICT REPRESENTATIVE UPON REQUEST. ONLY PERSONS AUTHORIZED BY THE APPLICABLE ARB CERTIFICATION EXECUTIVE ORDERS SHALL BE ALLOWED TO MAKE VAPOR RECOVERY OR ISD SYSTEM REPAIRS.
16. THE CLEAR TEST AFTER REPAIR (RESET) FUNCTION FOR THE VEEDER-ROOT ISD SYSTEM SHALL ONLY BE UTILIZED ONCE AFTER THE FIRST ISD WARNING ALARM OR IF THE OWNER/OPERATOR HAS COMPLETED EITHER OF THE PARAMETERS MENTIONED IN CONDITION NUMBER 18.
17. THERE SHALL BE NO GASOLINE DISPENSING IF THE ISD SYSTEM IS SHUT OFF, TAMPERED WITH, DISCONNECTED, OR OTHERWISE DISABLED.
18. IF A SECOND ISD WARNING ALARM OCCURS INDICATING THAT THE SAME PROBLEM STILL EXISTS OR IF A FAILURE ALARM OCCURS WHERE GASOLINE DISPENSING IS TERMINATED, THE ISD SYSTEM MAY BE RESET TO ALLOW FOR VEHICLE FUELING TO RESUME ONLY IF:
 - A) THE FUELING POINT(S) ASSOCIATED WITH THE PROBLEM THAT TRIGGERED THE FAILURE ALARM IS ISOLATED AND NOT OPERATED UNTIL THE REQUIRED REPAIRS HAVE BEEN COMPLETED; OR
 - B) AN ORDER FOR ABATEMENT OR OTHER ADMINISTRATIVE RELIEF HAS BEEN ISSUED BY THE AQMD HEARING BOARD ALLOWING GASOLINE DISPENSING TO CONTINUE; OR
 - C) ALL REQUIRED REPAIRS TO CORRECT THE PROBLEM THAT TRIGGERED THE SECOND WARNING OR FAILURE ALARM HAVE BEEN COMPLETED, AND THE NECESSARY APPLICABLE TESTS OR PROCEDURES HAVE BEEN PERFORMED. A LISTING OF THE REQUIRED TESTS AND OR PROCEDURES CAN BE FOUND IN ARB'S EXECUTIVE ORDER VR-202 INSTALLATION, OPERATION, AND MAINTENANCE MANUAL, SECTION 20 (VEEDER-ROOT ISD INSTALL, SETUP, & OPERATION MANUAL), SUBSECTION 5 (OPERATION), TABLES 5-1 AND 5-2, UNDER SUGGESTED TROUBLESHOOTING.AT A MINIMUM, ALL INFORMATION RELATING TO THE ALARM EVENT, COURSE OF ACTION TAKEN, REPAIRS MADE, AND TESTS OR PROCEDURES PERFORMED SHALL BE IMMEDIATELY RECORDED ON AN AQMD APPROVED FORM AND SHALL BE MADE AVAILABLE TO THE DISTRICT REPRESENTATIVE UPON REQUEST.

SECTION V: GENERAL REQUIREMENTS

19. ALL PHASE I AND PHASE II VAPOR RECOVERY EQUIPMENT AT THIS FACILITY SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CALIFORNIA AIR RESOURCES BOARD CERTIFICATION REQUIREMENTS.
20. THE DISTRICT AT ITS DISCRETION MAY WISH TO WITNESS THE INSTALLATION AND/OR PERFORMANCE TESTING OF THE NEW VAPOR RECOVERY EQUIPMENT. AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE INSTALLATION OF THE EQUIPMENT AND ANY OF THE MENTIONED TESTING REQUIREMENTS IN THIS PERMIT, THE APPLICANT SHALL NOTIFY THE AQMD BY E-MAIL AT R461TESTING@AQMD.GOV OR BY FACSIMILE AT TELEPHONE NUMBER (909) 396-3606. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTOR; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE TESTS TO BE PERFORMED.

SAMPLE

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CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

21. NEW EQUIPMENT INSTALLATIONS AND SUBSEQUENT SERVICE AND REPAIRS FOR ANY CERTIFIED COMPONENT FOR WHICH THIS PERMIT WAS ISSUED, SHALL ONLY BE PERFORMED BY A CURRENT AND CERTIFIED PERSON WHO HAS SUCCESSFULLY COMPLETED THE MANUFACTURER'S TRAINING COURSE AND APPROPRIATE INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION OR CARB EQUIVALENT TRAINING. COMPLETION OF ANY AQMD TRAINING COURSE DOES NOT CONSTITUTE AS A SUBSTITUTE FOR THIS REQUIREMENT. PROOF OF SUCCESSFUL COMPLETION OF ANY MANUFACTURER TRAINING COURSE SHALL BE WITH THE MANUFACTURER.
22. AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BACK-FILLING ANY UNDERGROUND STORAGE TANK OR PIPING, THE SCAQMD SHALL BE NOTIFIED BY E-MAIL AT R461BACKFILL@AQMD.GOV OR BY FACSIMILE AT TELEPHONE NUMBER (909) 396-3606. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE BACK-FILLING PROCEDURE. THE BACK-FILLING PROCEDURE SHALL NOT COMMENCE UNTIL INSPECTED BY A DISTRICT REPRESENTATIVE.
23. UNLESS AQMD RULE 461 REQUIRES A MORE FREQUENT TESTING OR INSPECTION SCHEDULE, THE OWNER/OPERATOR SHALL BE RESPONSIBLE TO PERFORM THE SCHEDULED WEEKLY, QUARTERLY, AND ANNUAL INSPECTIONS AS OUTLINED IN THE ARB APPROVED INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR THE HEALY PHASE II EVR SYSTEMS, AS WELL AS ALL THE REQUIRED VAPOR RECOVERY SYSTEM TESTS AS PER THE CURRENT AND APPROPRIATE ARB EXECUTIVE ORDER.
24. THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR BY FACSIMILE AT TELEPHONE NUMBER (909) 396-3606 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO ANY OF THE ABOVE MENTIONED TESTING REQUIREMENTS. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTOR; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE TESTS TO BE PERFORMED.
25. THE TESTING FOR THE ABOVE MENTIONED TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE MOST RECENT RULE 461 AMENDMENT OR CARB EXECUTIVE ORDER REQUIREMENTS, WHICHEVER IS MORE STRINGENT.
26. ALL RECORDS AND TEST RESULTS THAT ARE REQUIRED TO BE MAINTAINED BY RULE 461 SHALL BE KEPT ON SITE FOR FOUR YEARS AND MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

SECTION VI: GASOLINE THROUGHPUT REQUIREMENTS

27. THE MAXIMUM QUANTITY OF GASOLINE DISPENSED FROM THE STORAGE TANKS AT THIS FACILITY SHALL NOT EXCEED 1,200,000 GALLONS IN ANY ONE CALENDAR MONTH NOR 14,400,000 GALLONS IN ANY ONE CALENDAR YEAR.
28. RECORDS OF MONTHLY AND ANNUAL FUEL DISPENSED SHALL BE PREPARED, SHALL BE RETAINED ON SITE FOR TWO YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

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CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

By Dorris M. Bailey/JM04

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