San Diego County Air Pollution Control District

San Diego County Air Pollution Control District
10124 Old Grove Road, San Diego, CA 92131-1649
Phone (858) 586-2600 Fax (858) 586-2601
www.sdapcd.org

Sectors: 5, R

Site Record: APCD2023-SITE-04416

Application Record: APCD2023-APP-007994

APCD2023-APP-007994

Costco Wholesale Corporation c/o Barghausen Consulting Engineers, Inc.

18215 72nd Ave S
Kent, WA 98032

Costco Wholesale Corporation c/o Barghausen Consulting Engineers, Inc.
Gas Station Supervisor
1128 Broadway
Chula Vista, CA 91911

AUTHORITY TO CONSTRUCT (Draft Version)

EXPIRES:

After examination of your Application for an Air Pollution Control District (hereinafter referred to as "the District") Authority to Construct and Permit to Operate for equipment located at the above location, the District has decided on the following actions:

Authority to Construct is granted pursuant to Rule 20 of the Air Pollution Control District Rules and Regulations for equipment to consist of:

Gasoline Dispensing Facility (Retail) (BACT):
Thirty-two (32) nozzles, as listed in Exhibit 1 of the Phase II Executive Order (E.O.) specified below, with two (2) grades per nozzle;
Phase II VRS: Healy Vacuum Assist per ARB E.O. VR-202;
ISD System: Veeder Root Software in compliant version;
Processor: Permeator AT-150 per ARB E.O. VR-202;
Phase I VRS: Two Point OPW per ARB E.O. VR-102.
Alternative additive configuration per ARB E.O. VR-102, figure 2-7,
Tanks: Three (3) 40,000 gallon, gasoline, underground {manifolded underground}

Additive Tank: One (1) 1,500 gallon underground Lubrizol GA9058 storage tank (manifolded to the gasoline underground storage tanks), equipped with a submerged drop tube, product dust cap and spill container cover. Additive will be pumped into gasoline USTs via a stinger with a separate bung entry (not through the Phase I drop tube) into each gasoline UST.

This Authority to Construct is issued with the following conditions:

1. The owner or operator of the existing gasoline dispensing facility under permit APCD2007-PTO-973230 shall cease the existing gasoline operations once the Construction Completion Notice (CCN) for the new gasoline dispensing facility, under permit application APCD2023-APP-007994, has been submitted to and received by the District. At no time shall the existing and the new gasoline dispensing facilities conduct gasoline operations concurrently including storing gasoline or additive, loading gasoline or additive into underground storage tanks, and dispensing gasoline into vehicles. (Rule 1200)
2. The general & supplemental application forms and drawings of the vapor recovery system submitted for the scope of work described herein shall be consistent with, represent and describe the installed vapor recovery plumbing, piping system and tank and dispenser locations at this facility, except as modified by conditions herein. Prior to any deviation of the piping installation from the submitted information and/or drawings, the applicant shall submit drawing(s) reflecting the change(s) and request and wait for written approval from the District. (Rule 21)
3. Fuel additive shall be transferred into the gasoline storage tanks as specified in the equipment description of this permit. (Rule 20.2)
4. Fuel additive shall only be transferred into the gasoline underground storage tanks through an automated pumping system operated in accordance with the manufacturers' instruction/operation manual. (Rule 20.2)

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5. All storage tanks containing gasoline or fuel additive shall be equipped with permanent submerged fill pipes, which have a discharge opening entirely submerged when the liquid level is six (6.0) inches above the bottom of the tank. The District will accept documentation verifying this requirement from the equipment installation contractor or the performance testing contractor in lieu of witnessed measurements taken during performance tests. (Rule 61.3.1)
6. The Permeator AT-150 shall constantly log oil level, processor on/off condition, vacuum level and tank pressure. (CARB VR-202 Executive Order and Rule 61.4.1)
7. The Permeator AT-150 Programmable Logic Controller (PLC, display) shall constantly monitor PLC battery level and circuit continuity. (CARB VR-202 Executive Order and Rule 61.4.1)
8. Except for testing, repairs, or maintenance activities, the Permeator AT-150 shall be operated at all times with the ball valves in the "open" position. The ball valve handles shall either be locked in place or the handles removed and locked inside the Permeator cabinet. (CARB VR-202 Executive Order and Rule 61.4.1)
9. No dispensing shall be allowed when the vapor collection pump is disabled for maintenance or for any other reason. Only those nozzles affected by the disabled vapor collection pump are subject to this condition.
10. The hose assembly shall comply with the hose length specified Phase II Executive Order listed in the equipment description of this permit. (Rule 61.4)
11. The dispensing rate of every grade point shall be maintained at all times within the range specified in the applicable Executive Order, as required to conduct the Vapor-to-Liquid Ratio (V/L) Test. The permittee shall verify the maximum handheld dispensing flow rate of every grade point on a monthly basis. Attachment E, "Dispensing Flow Rate," or an equivalent form, shall be used for this purpose. Dispensing flow rates records shall be maintained on site for at least three (3) years and made available to the District upon request. (Rules 61.4.1)
12. All equipment associated with the vapor recovery system or that affects the vapor recovery system shall be certified and approved by the California Air Resources Board (CARB) for this vapor recovery system. (Rule 61.8)
13. The Phase I and Phase II vapor recovery systems specified in the equipment description of this permit, shall be installed, operated and maintained in accordance with the most recent applicable CARB Executive Orders (EO), Installation, Operation and Maintenance Manuals (IOM), and District Rules and Regulations. (Rules 61.3.1, 61.4.1, 61.8)
14. A copy of the CARB EO specified in the equipment description, including the IOM, or the most recent version of these EO and IOM, and this Authority to Construct shall be maintained onsite at all times and made available to the District upon request. (Rules 61.3.1 and/or 61.4.1)
15. Only components certified by the CARB for use with the particular Phase I or Phase II vapor control system specified in the equipment description shall be installed at this facility. All components certified by CARB and installed at this facility shall be clearly identified by a permanent identification showing the manufacturer's make and model number, unless the component is specifically exempted from this requirement by CARB in writing. (Rules 61.3.1 and 61.4.1)
16. If installed, optional components for the Phase I and/or Phase II vapor recovery system listed in Exhibit 1 of the applicable CARB EO shall be CARB certified and shall be properly installed, operated and maintained. (Rules 61.3.1 and 61.4.1)
17. Any installation, repair, replacement or testing of the Phase I and/or Phase II systems or components specified in the equipment description shall be performed per the applicable CARB EO and CARB approved IOM, by a technician certified as specified in Attachment K, "Certification Requirements for Technicians." These certification requirements are also applicable for removal and installation of the Phase I and/or Phase II components in the course of any required performance test. Proof of certification shall be made available to the District upon request. (Rules 61.3.1 and 61.4.1)
18. The permittee shall record the combined volume of all gasoline grades dispensed at this facility. Attachment C, "Monthly Gasoline Throughput", or an equivalent form, shall be used for this purpose. Monthly gasoline throughput records shall be maintained on site for at least three (3) years and made available to the District upon request. (Rules 21, 61.3/61.3.1 and/or 61.4/61.4.1)
19. The on-site vapor control system shall be maintained in good working condition and shall operate at all times when volatile organic fuels (i.e. gasoline) are transferred or stored.
20. The Phase I and Phase II vapor recovery equipment and associated components, except for components with an allowable leak rate as specified by the most recent applicable CARB EO and Certification Procedure, shall be maintained free of liquid leaks and shall be vapor tight. Components with an allowable leak rate shall operate within such rate. (Rules 61.3.1/61.3 and 61.4.1/61.4)
21. All liquid transfer lines, piping, and associated fittings shall be maintained so that there are no fugitive liquid leaks as defined by Rule 61.0(k) or fugitive vapor leaks as defined by Rule 61.0(l). (Rule 61.2 or 21)

22. All Phase-I fill adapters and Phase-II fuel dispensing nozzles shall be electrically connected to an earth ground. Clearly marked and easily accessible electrical clamp attachment points, which are electrically connected to a verified earth ground (<1ohm resistance), shall be installed at each Phase I and Phase II fueling point. (Rule 21)
23. Any Phase I and/or Phase II component, device or system identified and recorded by the permittee as not being in good condition, based on testing and/or visual inspections, or not operating properly shall be repaired, replaced, or adjusted within seven (7) calendar days of detection in a manner that will bring the facility into compliance with the applicable District Rules and Regulations and the most recent applicable CARB EO. Any Phase I and/or Phase II component or affected portion of the system that is determined to have a defect as set forth in the California Code of Regulations, Title 17, Section 94006, shall not be operated and shall be removed from service immediately. The defective component or affected portion of the system shall not be operated until the defect has been repaired or the defective component replaced such that the defect no longer exists. (Rules 61.3.1/61.3 and 61.4.1/61.4)
24. The permittee shall perform a visual weekly inspection of all Phase I vapor recovery components. The components to be inspected for damage, loose connections, or leaks are:

    a. the vapor and product dust caps and gaskets;
    b. poppeted dry breaks, vapor and product fill adaptors;
    c. spillboxes, including the drain valves.

    In addition, the permittee shall verify that there is no standing gasoline or debris in the spill boxes and that the drain valves are seating properly. (Rule 61.3.1)
25. The permittee shall perform a visual daily inspection of all Phase II components at retail gasoline dispensing facilities.

    The following components shall be inspected for damage, loose connections and/or leaks:
    a. nozzles (including hold-open latches);
    b. hoses;
    c. swivels; and
    d. breakaways.

    Each nozzle, including the following components, shall be inspected for damage:
    a. faceplates;
    b. vapor boot guards; and
    c. spouts.

    Each hose shall be inspected for:
    a. wear;
    b. severe kinks;
    c. cracks; and
    d. splitting.

    If the combined volume of all gasoline grades dispensed at this facility is less than 750,000 gallons in any consecutive twelve (12) month period, holidays and weekends are excluded from the daily inspection requirements. (Rule 61.4.1)
26. An inspection, maintenance and repair log shall be kept on site for at least three (3) years and made available to the District upon request. Attachment I, "Inspection, Maintenance and Repair Log," is attached as an example and can be used for this purpose. The inspection, maintenance and repair log shall record the daily and weekly inspections and itemize at a minimum:

    a. the date and time the defect was found or the date and time the component was identified as not being in good condition;
    b. the date and time the component was removed from service;
    c. the date and time of call for service, the date of repair/replacement;
    d. the affiliation and name of the person performing the repair/replacement;
    e. the certified technician identification number from the applicable manufacturer;
    f. the make and model number of the component; and
    g. whether the component was maintained, replaced or repaired. (Rules 61.3.1 and 61.4.1)
27. Manufacturer's scheduled maintenance, which includes periodic inspections and/or tests, shall be performed in accordance with the CARB EO and IOM for the Phase I and Phase II vapor recovery systems specified in the equipment description of this permit. Annual inspections and testing shall be performed by a technician certified by the manufacturer. Only technicians certified by the manufacturer can service any problems discovered while conducting the inspections and/or testing. (Rules 61.3.1 and 61.4.1)

28. A maintenance log for the manufacturer's scheduled maintenance, including any repairs performed and drive offs, shall be kept onsite for at least three (3) years and made available to the District upon request. The maintenance log shall itemize at a minimum:

    a. the date of each inspection and test;
    b. any defect, damage;
    c. loose connections, or leaks found during the inspections or tests;
    d. any test failure;
    e. the make and model number of any component that is replaced, maintained or repaired as a result of these inspections or tests;
    f. the date of repair/replacement; and
    g. the affiliation and name of the person performing the inspections, tests, and repair/replacement. (Rules 61.3.1 and 61.4.1)
29. The underground vapor recovery piping layout from the dispensers to the gasoline tanks shall consist of a single 3-inch I.D. main pipe to each tank with 2-inch I.D. connections to each gasoline dispenser. (Rule 61.4.1)
30. Vent lines shall consist of 2-inch I.D. piping from the vent stacks to the first manifold. All lines after the first manifold and back to the underground storage tank shall be 3-inch I.D. (Rule 61.4.1)
31. The vapor space of each tank shall be connected to the vapor space of other gasoline tanks through a 3-inch I.D. pipe manifold installed below ground and through an aboveground vent manifold. (Rule 61.4.1)
32. All pipe sizes specified are minimum diameters and all pipes shall be made of rigid material, which is listed for use with gasoline. (Rule 61.4.1)
33. All vapor return lines shall have a minimum slope of 1/8 inch per foot from the dispenser riser to the riser of the UST. All vent lines shall be sloped a minimum of 1/8 inch per foot from the vent risers to the storage tanks. The underground vapor manifold shall slope toward one tank and have a minimum slope of 1/8 inch per foot. (Rule 61.4.1)
34. To avoid liquid traps and low points, flexible vapor return piping shall not be installed. Steel braided flex connectors may be used only within the dispenser or tank sumps. (Rule 21)
35. Product shall not be dispensed from any fueling point at this facility if a vapor line is disconnected and open to the atmosphere. (Rule 21)
36. The permittee shall ensure that the Phase I tank truck and trailer vapor recovery system are utilized during each transfer of gasoline and that product and vapor (poppet) caps are securely replaced and remain in place following each such transfer. (Rule 61.3.1)
37. During liquid transfers involving tank trucks and trailers, the vapor return hose and gasoline hose connections shall be made in the following order:

    1. connect the vapor return hose to the fuel delivery truck drybreak,
    2. connect the vapor return hose to facility storage tank drybreak,
    3. connect the gasoline hose to the facility storage tank fill pipe adaptor, and
    4. connect the gasoline hose to the fuel delivery truck product fitting.

    At the end of the fuel dump, the disconnections shall be made in reverse order of the connections, i.e., (4), (3), (2), and (1), wherein the gasoline transfer hose shall be connected or disconnected only while the vapor return hose is connected and functional. (Rule 61.3.1)
38. No more than two (2) fill points shall be installed on any single underground storage tank at this gasoline dispensing facility. The double fill configuration shall be installed in accordance with Exhibit 2 of the CARB Phase I EO listed in the equipment description of this permit. (Rule 61.3.1)
39. The maximum horizontal distance (offset distance) of the vapor recovery tank riser shall be twenty (20) inches, using four (4) inch steel pipe fittings, a vapor riser offset, or a combination of the two products as indicated by Exhibit 2 of the CARB Phase I EO listed in the equipment description of this permit. The vapor recovery tank riser shall not be offset when the double fill configuration is installed. (Rule 61.3.1)
40. If applicable, the overfill device actuation mark shall be installed at 95% or less of the total tank capacity. After being installed, the overfill prevention device shall not be manually opened, closed or modified by any type of device. (Rule 61.3.1)
41. A maximum of three (3) ARB certified pressure/vacuum vent valves may be used at this gasoline dispensing facility. (Rules 21 and 61.3.1)
42. The Phase II system authorized herein shall be equipped with ARB certified Veeder-Root ISD software and shall be setup for use in accordance with the CARB EO and associated IOM Phase II EVR system specified in the equipment description of this permit. (Rule 61.4.1)

43. The TLS Console shall be installed in a location that allows the RS232 port to be easily accessible for use at any time. No obstructions shall be placed within a radius of one foot (1') from the TLS Console. A vacant RS232 port shall always be available to electronically download complete and accurate reports. The TLS Console shall also be equipped with an operational printer (including an adequate supply of paper and toner). (Rule 61.4.1)
44. The TLS Console shall automatically prohibit the dispensing of fuel from individual dispensers or through shutdown of all the gasoline turbine pumps during a CP-201 ISD failure alarm. It shall also automatically prohibit the dispensing of all dispensers during a TLS Console ISD system power loss. (Rule 61.4.1)
45. The facility attendant shall notify (e.g., direct contact, voice mail, e-mail, fax) the responsible company official or their designee within two (2) hours of any ISD alarm. Only technicians certified as specified in Attachment K of this Permit to Operate shall perform installations, repairs or replacements. (Rule 61.4.1)
46. The Permittee and/or designated service technician shall promptly record all information relating to all alarm events including but not limited to reporting timelines, tests conducted and associated repairs on Attachment I "Inspection, Maintenance and Repair Log," or an equivalent form approved by the District. If tests conducted, the test results shall be completed on current District approved test forms located at http://www.sdapcd.org. The inspection, maintenance, and repair log as well as copies of the test results shall be kept onsite for at least three (3) years and made available to the District upon request. (Rules 61.4.1 and 21)
47. When an ISD alarm occurs and gasoline dispensing is terminated, the permittee and/or designated service technician shall reset but not manually clear the ISD system to allow vehicle fueling to resume only if: (Rules 21 and 61.4.1)

    a. All required repairs have been made and all information associated with the repairs is recorded in Attachment I, the maintenance and repair log, or

    b. The dispenser(s) associated with the problem that triggered the alarm is isolated and not operated until the required repairs are completed, and all information associated with the repairs is recorded. The time the components are isolated shall be logged immediately.
48. The audible ISD alarm shall be located such that it can easily be heard by station personnel in the area most likely to be occupied during normal station operation (i.e., at the cash register). (Rule 21)
49. Only a manufacturer certified technician, as specified in Attachment K of this permit, shall manually clear any ISD alarm conditions. The certified technician shall not manually clear any vapor recovery containment (i.e. pressure and/or leakage) alarm conditions unless all repairs necessary to correct the condition have been successfully performed per Attachment A or Attachment L, as applicable, and all information associated with the repairs is recorded in Attachment I, the maintenance and repair log. The permittee shall immediately log the time the components are isolated. (Rules 61.4.1 and 21)
50. The Vapor Recovery ISD System shall be operational for a minimum of ninety-five percent (95%) of the time, based on an annual basis or prorated thereof. The operational percentage time shall be verified through the daily reports. (Rule 61.4.1)
51. Each dispenser shall have a certified vapor flow meter as shown in Exhibit 2 of the CARB Phase II EO listed in the equipment description of this permit. (Rule 61.4.1)
52. This gasoline dispensing facility shall be equipped with a certified vapor pressure sensor installed into the dispenser or vapor vent stack located closest to the tanks, as shown in Exhibit 2 of the CARB Phase II EO listed in the equipment description of this permit. If the vapor pressure sensor is installed in a dispenser and a row of dispensers are equal distance from the tank pad as well as within 10 feet of each other, the vapor pressure sensor can be installed into any of the dispensers. (Rule 61.4.1)
53. The ISD system shall maintain a complete electronic archive of monthly reports for a period of 12 consecutive months and an archive of daily reports for the last 365 days. (Rule 61.4.1)
54. At least two (2) weeks prior to completion of construction/installation of the vapor recovery system piping and before backfilling, the applicant shall schedule an initial inspection with the undersigned engineer. (Rule 21)
55. At the time of this inspection, the District shall verify that the vapor recovery system is installed in accordance with the drawings submitted with the application. Deviations of the piping layout, pipe sizes, etc. shall require the submission of a new application with as-built drawings. Proof of certification per Attachment K shall be made available to the District during this inspection. (Rule 21)
56. The tank sumps shall be dry at the time of this inspection. In addition, the District will verify the installation of electrical clamp attachment points, which shall be electrically connected to a verified earth ground (<1ohm resistance), at each Phase I and Phase II fueling point. (Rule 21)
57. The pre-backfill inspection shall not be combined with the test scheduling or test witnessing specified in this Authority to Construct. (Rule 21)
58. Within 30 days of completion of construction and at least fifteen (15) calendar days prior to the proposed test date, the applicant shall contact the undersigned engineer at (858) 586-2600 to schedule a test date.

59. The Phase I and/or Phase II tests referenced in Attachment A, as applicable, shall be successfully conducted within 60 days after startup of the equipment authorized herein. For the purpose of compliance with this condition, all tests shall be conducted after backfilling, paving and installation of all required Phase I and Phase II components. Within 15 calendar days of completion of these tests, the applicant/testing company shall submit copies of all test data and results to the District's Vapor Recovery Section of the Engineering Division. (Rules 61.3.1 and 61.4.1)
60. Performance of the tests listed in the above condition simultaneously, proceeding with other tests after failure of a previous test or re-testing at this site shall only occur upon District approval. If these tests reveal system problems or inadequacies, corrective repairs shall be made. (Rule 21)
61. The tests referenced in Attachment A, shall be conducted and passed at least once every calendar year within sixty (60) calendar days prior to the permit expiration date. The permittee and/or their designated testing agent shall report all test results completely and accurately to the District Compliance Division within fifteen (15) calendar days of conducting these annual tests in a format approved by the District Compliance Division. (Rule 61.3,61.3.1, 61.4, 61.4.1)
62. In the event of any failed test, which does not constitute a defect, the permittee shall make all necessary repairs, reschedule and retest within seven (7) calendar days of the failed test. In the event of any failed test, which does constitute a defect, the permittee shall remove all of the affected components from service until they are successfully retested. Notice of any retest, including the date, time and nature of repairs made, conducted on a subsequent date after the initial test date shall be provided to the District's Compliance Division in writing (e-mail or facsimile are acceptable) as soon as possible and prior to the retest. All retest results shall be reported completely and accurately and submitted to the District Compliance Division within fifteen (15) calendar days of conducting the retest in a format approved by the District Compliance Division. (Rules 61.3, 61.3.1, 61.4 and 61.4.1)
63. Copies of all test results shall be maintained onsite for three (3) years from test date and made immediately available to the District upon request. (Rule 21)
64. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
65. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
66. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

This Authority to Construct does not authorize operation of the above-specified equipment until written notification has been provided to the District indicating that construction (or modification) has been completed in accordance with this Authority to Construct. Upon submission of this notification, temporary Permit to Operate shall take effect and will remain in effect, unless withdrawn or modified by the District, until the equipment is inspected by the District and a revised temporary permit (Startup Authorization) is issued or a Permit to Operate is granted or denied.

This Authority to Construct shall be posted on or within 25 feet of the above described equipment or maintained readily available at all times on the operating premises.

Upon completion of construction (or modification) in accordance with this Authority to Construct, and prior to commencing operation, the applicant must complete and mail, deliver or email to apcdpermits@sdapcd.org the enclosed Construction Completion Notice to the District. After mailing, delivering or emailing the notice, the applicant may commence operation of the equipment. Operation must be in compliance with all the conditions of this Authority to Construct and applicable District Rules.

This Authority to Construct does not relieve the holder from obtaining permits or authorizations, which may be required by other governmental agencies. This Authority to Construct is not authority to exceed any applicable emission standard established by this District or any other governmental agency. This authorization is subject to cancellation if any emission standard or condition is violated.

Within 30 days after receipt of this Authority to Construct, the applicant may petition the Hearing Board for a hearing on any conditions imposed herein in accordance with Rule 25.

This Authority to Construct will expire on unless an extension is granted in writing.

This is not a Permit to Operate. Please be advised that installation or operation of this process or equipment without written authorization may be a misdemeanor subject to fines and penalties.

If you have any questions regarding this action, please contact me at (858) 414-9917 or via email at KarenYimnei.Chan@sdcounty.ca.gov.

Karen Yimnei Chan
Assoc Air Pollution Cntrl Eng

CC: Compliance Division