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Puget Sound Clean Air Agency

Puget Sound Clean Air Agency

Notice of Construction No. **11917**

HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. **13828**

Date

DRAFT

One CECO Model DLM-1000-C-P-F fiber-bed mist eliminator for asphalt tanks T-1, T-2, T-3, T-28 and T-163 and one CECO Model DLM-1000-C-P-F fiber-bed mist eliminator for the asphalt tank truck loading rack (lanes 1 & 2). These mist eliminators include secondary carbon absorbers. Fugitive piping components (valve, flanges, etc) for the addition of butane into the gasoline storage tanks. Coverage under this NOC includes the gasoline truck loading rack and the associated vapor recovery unit on the loading racks (Including the installation of the John Zink vacuum assist system), the 8 internal floating roof gasoline storage tanks (T-201, T-202, T-203, T-204, T-205, T-153 and T-154) with associated fugitive piping components (valve, flanges, etc) for the addition of butane into the gasoline storage tanks T-201, T-202, T-203, T-204. and the 3 existing NSPS Subpart Ka gasoline and/or ethanol storage tanks (T-151, T-155 and T-156).

OWNER	INSTALLATION ADDRESS
SeaPort Sound Terminal LLC **4130 East 11th Street** **Tacoma, WA 98421**	**SeaPort Sound Terminal LLC** **2628 Marine View Drive** **Tacoma, WA 98422**

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.

2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

3. When storage Tanks T-1, T-2, T-3, T-28 and T-163 contain asphalt, a mist eliminator system and carbon bed adsorption system shall be used to control emissions. For the loading of asphalt into tank trucks on lanes 1 and 2, a mist eliminator system that includes a carbon bed adsorption system shall be used to control emissions.

4. Emissions shall not exceed 0% opacity as determined by EPA Method 22, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing.

5. The mist eliminator inlet temperatures shall not exceed 120°F at any time.

6. The asphalt storage temperature shall not exceed 350°F at any time.

7. The mist eliminators shall be equipped with gauges to monitor the inlet temperature and the pressure drop across the filter elements. The acceptable pressure drop range shall be included in the facility's O&M plan and posted on or near the gauge.

8. The asphalt storage tanks shall be equipped with a temperature monitoring device and the temperature shall be monitored and recorded at least once per 24 hours to demonstrate compliance with Permit Condition 6.

9. The inspections listed in Permit Condition 4, 5, and 6 are to be performed during daylight hours but no inspection is required if there are no loading/unloading operations during daylight hours that week. If a week passes where no inspection occurred due to loading/unloading only occurring at night, the owner and/or operator shall either perform the next loading/unloading during daylight to conduct an inspection for visible emissions or conduct the visible emission test during the next loading at night. If visible emissions are observed, the filter inlet temperature exceeds 120°F, or the pressure drop across the filter exceeds the acceptable range specified in the O&M plan, the Owner and/or Operator shall immediately take corrective action until there are no visible emissions or verify compliance with Condition 4 using EPA Method 22.
    a. The storage tank mist eliminator shall be inspected weekly to meet Permit Condition 4, 5, and 7 while an asphalt tank is being filled. If no asphalt is transferred to tanks during the calendar week, the owner and/or operator shall document and perform the inspection on the next asphalt tank transfer.
    b. The truck loading rack mist eliminator shall be inspected weekly to meet Permit Conditions 4, 5, and 7 while an asphalt truck is being loaded. If no asphalt truck is loaded during a calendar week, the Owner and/or Operator will document this and perform the inspection on the next asphalt load.

10. Demister H2S and VOC monitoring:

    a. The carbon portion of the demister carbon adsorption systems shall be monitored for hours of operation.
    b. The Owner and/or Operator shall replace the carbon at or before 80% of the recommended life expectancy (as based upon OEM recommended life expectancy and documented in the O&M plan) for the carbon or if H2S/VOC greater than 10ppm is observed during three consecutive weekly inspections as required under Specific Condition 9.
    c. Each demister stack shall be installed with a sampling port. An MSA Altair 4 gas monitor with a sampling pump or similar device shall be connected to the sample ports once per week under normal loading conditions to evaluate the discharge stream for H2S and VOC. Breakthrough will be determined based upon H2S levels. When H2S values are greater than 10ppm, on three consecutive weekly tests, the owner and/or operator shall take corrective actions to control the release of H2S/VOC. If corrective measures are unsuccessful, the owner and/or operator shall replace the carbon or carbon canisters within 5 days after completing corrective actions or cease loading operations that are dependent on the unit until the carbon or carbon canister is replaced or the demister system is repaired.

ADDITIONAL TRUCK LOADING RACK REQUIREMENTS:

11. The gasoline tank truck loading rack is subject to 40 CFR Part 60, Subparts XX and A. The gasoline loading terminal (gasoline storage tanks, truck loading rack, cargo tanks, and equipment components) is subject to 40 CFR Part 63, Subparts BBBBBB and A.

12. Total Non-Methane Hydrocarbon (NMHC) emissions from the vapor recovery unit (VRU) shall not exceed 0.02 lb/1000 gallons (2.4 mg/l) of gasoline throughput, as determined by EPA Method 25B and the procedures in 40 CFR 60.503. Benzene emissions from the VRU shall not exceed 0.000017 lb/1000 gallons (0.002 mg/l), as determined by EPA Method TO-15. Tests to determine compliance with these emission limits shall be conducted within 60 days of startup of the gasoline loading terminal.

13. Total NMHC emissions from the VRU shall not exceed 0.15% VOC (as propane), as determined by the CEMS on a 15-minute bed cycle. A 3-hour averaging period may be used provided that data monitored during periods with no loading activity are excluded from the average.

14. A performance evaluation of the CEMS shall be conducted within 60 days of startup of the gasoline loading terminal in accordance with 40 CFR Part 60, Appendix B, Performance Specification 8 or 8A.

15. No gasoline or ethanol shall be loaded onto railcars unless a Notice of Construction application has been filed and an Order of Approval has been issued by the Agency for that activity.

16. The total throughput of the facility shall not exceed 501,875,000 gallons of gasoline during any consecutive 12-month period. Targa Sound Terminal shall record the monthly and 12-month rolling total throughput within 30 days of the end of each month.

17. The gasoline throughput across the truck loading rack shall not exceed 4,800 gpm and 40,000 gallons per 15 minutes.

GASOLINE STORAGE TANKS (T-201, T-202, T-203, T-204, T-150, T-153 and T-154)

18. Tanks T-201, T-202, T-203, T-204, and T-150 are subject to 40 CFR Part 60, Subparts Kb and A.

19. The adjustable roof legs on these tanks shall be fitted with vapor seal boots or equivalent.

20. The secondary seals on these tanks shall extend from the roof to the tank shell and shall not be attached to the primary seal.

21. The entire circumference of each primary and secondary seal on these tanks shall be inspected for compliance with the requirements of Section 3.02 of Regulation II during hydrotesting of the tank. The time between inspections shall not exceed 10 years. If a new primary or secondary seal is installed, or if a primary or secondary seal is repaired, both seals shall be inspected at the time of the seal installation or repair. Flexible wiper seals shall be inspected when the outer edge of the seal is curved upward.

22. The concentration of organic vapor in the vapor space above the internal floating roof on these tanks shall not exceed 30% of its lower explosive limit (LEL).

23. The emissions from degassing of gasoline storage tanks shall be vented to a control device.

24. The Owner and/or Operator shall inspect all valves, pumps, and pipe fittings associated with the Butane unloading areas for leaks monthly. Detection methods incorporating sight, sound, or smell are acceptable. One inspection must occur in each calendar month, and each inspection shall be separated by at least 14 calendar days, but no more than 45 calendar days. An initial attempt to repair all detected leaks shall be made within 5 calendar days of its detection. Final repairs must be completed within 15 days of detection unless this is not feasible. The repaired or replacement component shall be reinspected the first time the component is in operation after the repair or replacement.

25. The Owner and/or Operator shall keep a log of all inspections of the equipment components. The log shall include the date of inspection, findings, leak determination method, corrective action, and inspector name and signature. For each leak detected, the log shall include the location of the leak, the date of initial attempt at repair, the date it was repaired or replaced, and the results of the reinspection. Entries into the log shall occur immediately following the inspection and initialed by the person performing the inspection.

RECORDS

26. Targa Sound Terminal shall not engage in producing gasoline, kerosene, distillate fuel oils, residual fuel

oils, lubricants, or other products through the distillation of petroleum, or through the redistillation, cracking, or reforming of unfinished petroleum derivatives, without first obtaining permits for the refinery from the Puget Sound Clean Air Agency.

27. Records shall be kept for at least 5 years from the date of the record documenting the results of each inspection, maintenance and corrective action. Each record shall also include the date and time, a brief description, and the name of the person who conducted the activity.

28. This Order of Approval No. 11917 hereby cancels and supersedes Order of Approval Nos. 11403 (Dated 7/31/18)

APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

D R A F T

Ralph Munoz
Reviewing Engineer

John Dawson
Engineering Manager