

**RULE 462 CONTINUOUS MONITORING SYSTEM (CMS) COMPLIANCE PLAN
FACILITY ID 800171 –EXXONMOBIL OIL CORP. - VERNON TERMINAL**

CONTINUOUS MONITORING SYSTEM (CMS) EQUIPMENT

CONTINUOUS MONITORING SYSTEM (CMS) CONSISTING OF AN INFRARED INDUSTRIES, MODEL IR-7761, GAS ANALYZER AND A YOKOGAWA DAQSTATION **DX1000** SERIES (OR EQUIVALENT) RECORDER SERVING A JOHN ZINK CARBON ABSORBTION SYSTEM

AND

CONTINUOUS PARAMETER MONITORING SYSTEM (CPMS) CONSISTING OF A THERMAL SENSOR TYPE K THERMOCOUPLE AND STRIP CHART RECORDER, RUSTAK SERIES 200, 0 – 2000^oF., SERVING A JOHN ZINK THERMAL OXIDIZER.

CONDITIONS APPLICABLE TO THE CMS SERVING THE JOHN ZINK CARBON ABSORBTION SYSTEM:

1. The operator shall conduct the operation of this CMS in compliance with all data and specifications submitted with the plan application under which this approval is granted, unless otherwise noted below.
2. The CMS shall sample and analyze gas from the outlet of the carbon canisters to accurately measure the Nonmethane Hydrocarbon (NMHC) concentration at the exhaust of vapor recovery unit.
3. The CMS shall provide and the data recorder shall retain the instantaneous NMHC concentration and a continuous 15-minute average NMHC concentration, measured at the exhaust of the vapor recovery system (carbon adsorbers).
4. The operator shall maintain a display of the NMHC concentrations in a location accessible to District personnel.
5. Daily calibration error tests shall be performed on the CMS at the low (0-20 percent) and high (80-100 percent) ranges of concentration. The calibration error shall not exceed 2.5 percent of the full scale range.
6. Testing of the CMS for relative accuracy (RA) and calibration drift, as described in 40 CFR 60 Appendix B, shall be conducted in conjunction with the vapor recovery system (carbon adsorbers) performance testing required by the permit for the vapor recovery system (carbon adsorbers).
7. The operator shall ensure that the CMS is properly maintained and kept in good operating condition at all times and that it meets applicable requirements of 40 CFR 63.427 and 40 CFR 60 Appendix B, Specification 8. The applicability of 40 CFR 63.427 is pursuant to AQMD rule 462(f)(2) and does not necessarily imply that the facility is a major source of Hazardous Air Pollutants (HAPs).
8. The operator shall maintain the recording device in proper operation at all times such that it is accurately synchronized with the correct time of day.

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9. The recording device shall archive data in a secure encrypted format to nonvolatile data storage. Instantaneous readings shall be recorded at a frequency of not less than once per minute. The recorder/software shall be capable of displaying and printing out plots of the NMHC concentration within 3 hours of a request. Where external storage media is used, it shall be replaced at a sufficient frequency to ensure that the amount of stored data is at no more than 90% of the storage capacity of the media.
10. The operator shall notify the executive officer, within 24 hours, in the event of a CMS or recorder failure or shutdown for repair, which exceeds one hour. The notification shall include the cause and time of the failure, the time the recorder returned to operation, maintenance or corrective work performed and actions taken to prevent such failures in the future. The CMS or recorder shall be restored to normal operation within 96 hours of the failure.
11. The operator shall keep records on site to show compliance with conditions required by this plan. Such records shall be kept for at least five years and made available to District personnel upon request.

CONDITIONS APPLICABLE TO THE CMS SERVING THE JOHN ZINK THERMAL OXIDIZER:

1. The operator shall conduct the operation of this CMS in compliance with all data and specifications submitted with the plan application under which this approval is granted, unless otherwise noted below.
2. The thermocouple shall be located at a position not less than 22 feet 6 inches above ground within the exhaust stack of the thermal oxidizer to accurately measure the temperature of the exhaust gas. This sampling location has been determined to meet the requirements of 40 CFR 63.427(a)(3).
3. The operator shall maintain a digital readout of the temperature of the thermal oxidizer exhaust gas in a location accessible to District personnel.
4. The operator shall calibrate the thermocouple/chart recorder once a year, in accordance with manufacturer's specifications, such that the overall accuracy is within +/- 1% of the actual value or +/- 2.2 degrees Celsius, whichever is greater.
5. The operator shall ensure that the CMS is properly maintained and kept in good operating condition at all times and that it meets applicable requirements of 40 CFR 63.427. The applicability of 40 CFR 63.427 is pursuant to AQMD rule 462(f)(2) and does not necessarily imply that the facility is a major source of Hazardous Air Pollutants (HAPs).
6. The operator shall maintain and operate the CMS to accurately record the temperature in the exhaust stack of the thermal oxidizer at all time as specified in these conditions.
7. The operator shall maintain the recording device in proper operation at all times such that it is accurately synchronized with the correct time of day.

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8. The range of the strip chart recorder shall be set such that the minimum combustion temperature, stated in the Permit to Construct or Permit to Operate issued for the air pollution control system, is between 30% and 90% of full scale.
9. The operator shall notify the executive officer, within 24 hours, in the event of a CMS or recorder failure or shutdown for repair, which exceeds one hour. The notification shall include the cause and time of the failure, the time the recorder returned to operation, maintenance or corrective work performed and actions taken to prevent such failures in the future. The CMS or recorder shall be restored to normal operation within 96 hours of the failure.
11. The operator shall keep records on site to show compliance with conditions required by this plan. Such records shall be kept for at least five years and made available to District personnel upon request.

PLAN APPROVED

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