REGULATION 8
ORGANIC COMPOUNDS
RULE 41
VEGETABLE OIL MANUFACTURING OPERATIONS

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(Adopted December 17, 1986)

8-41-100 GENERAL

8-41-101 Description: The purpose of this Rule is to limit emissions of precursor organic compounds from the vegetable oil solvent extraction operations.

8-41-110 Exemption, Laboratory and Experimental Operations: The requirements of this Rule shall not apply to equipment used exclusively for research, laboratory analysis or determination of product quality.

8-41-111 Exemption, Startup and Shutdown: The requirements of this Rule shall not apply to the solvent extraction plant during the first 24 hours of startup and the final 24 hours of shutdown.

8-41-200 DEFINITIONS

8-41-201 Conveyor: Any device which removes the meal by a mechanical means from one location to another location.

8-41-202 Desolventizer-Toaster: A process unit in which steam and air are forced through and across the meal to volatilize the solvent.

8-41-203 Equipment in Organic Service: Any pump, valve, pressure relief valve, sight glass sample connection, open-ended valve, or connector in VOC service.

8-41-204 Leaking Equipment: Any equipment from which precursor organic compounds can be detected or observed to be leaking, or producing a concentration in air exceeding 10,000 ppm (expressed as methane) one centimeter from the leak.

8-41-205 Meal: Spent seed flakes containing adsorbed solvent after extraction.

8-41-206 Mineral Oil Scrubber: A packed tower using mineral oil as an adsorbent for the extractant solvent.

8-41-207 Organic Compound, Precursor: Any organic compound as defined in 1-233 excepting the non-precursor organic compounds, 1-234.

8-41-208 Organic Compounds: Any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonates, and methane

8-41-209 Repaired: Equipment is adjusted or otherwise altered to maintain proper operating characteristic, including freedom from leakage.

8-41-210 Solvent Extraction: Removal of vegetable oil from the seed or bean using a solvent in a contact system.

8-41-211 Tumbler or Cooler: A device which reduces the temperature or moisture from the meal.

8-41-212 Vegetable Oil Plant: Any facility engaged in the extraction or refining of vegetable oil.

8-41-300 STANDARDS

8-41-301 Extractor, Desolventizer-Toaster: A person shall not operate any extractor or desolventizer-toaster that emits more than 6.8 kg (15 lb) of organic compounds per day (excluding the meal discharge), unless such emissions are controlled by one of the following:

301.1 A condenser and mineral oil scrubber which captures and reduces precursor organic compounds by at least 90 per cent by weight.
301.2 An emission control device, approved by the APCO, which captures and reduces precursor organic compounds by at least 90 per cent by weight.

**8-41-302 Conveyor, Desolventizer-Toaster:** A person shall not operate a vegetable oil plant unless the desolventizer-toaster discharge conveyor prior to the cooler is vented to a mineral oil scrubber with a precursor organic compound capture and control efficiency of at least 90 per cent by weight.

**8-41-303 Equipment in Organic Service:** Each calendar month, a person operating a vegetable oil plant shall inspect all equipment for any indication of gaseous or liquid leakage of organic compounds. If the concentration of precursor organic compounds measured one cm. from any leak in such equipment exceeds 10,000 ppm (expressed as methane), or if leaks are visible, the leaking equipment shall be repaired within 10 days.

**8-41-400 ADMINISTRATIVE REQUIREMENTS:**

**8-41-401 Compliance Schedule:** The owner or operator subject to this Rule shall comply with the following increments of progress:

401.1 By January 2, 1987 submit to the APCO a plan describing the methods to be used to comply with the applicable requirements.

401.2 By March 1, 1987 submit a completed application for an Authority to Construct if needed.

401.3 By August 1, 1987 be in full compliance with requirements of this Rule.

**8-41-500 MONITORING AND RECORDS**

**8-41-501 Portable Hydrocarbon Detector:** Any instrument used for the measurement of organic compounds shall be a gas detector that meets the specifications and performance criteria of and has been calibrated in accordance with EPA Reference Method 21 (40 CFR 60, Appendix A). (Amended June 1, 1994)

**8-41-502 Record Keeping:** The owner or operator of a vegetable oil plant shall be subject to the following requirements:

502.1 A readily visible identification, in the form of a weatherproof tag shall be attached to the leaking equipment. The identification may be removed upon repair.

502.2 The leaking equipment shall be repaired with an initial attempt as soon as possible but no later than 10 calendar days after it is detected.

502.3 When a leak is detected, the owner or operator shall record the date of detection and the date of repair. The log record of leak detection and repair shall be maintained for 2 years at the facility and be made available to a District representative upon request.

**8-41-503 Air Pollution Abatement Equipment, Recordkeeping Requirements:** Any person operating air pollution abatement equipment to comply with Section 8-14-301, and 302 shall record on a daily basis key system operating parameters to demonstrate continuous operation and compliance of the air pollution abatement equipment during periods of emission producing activities. Key system operating parameters are those necessary to ensure compliance, such as temperature, flow rates, and pressure.

(Adopted June 1, 1994)

**8-41-600 MANUAL OF PROCEDURES**

**8-41-601 Determination of Emissions:** Emissions of organic compounds as specified in 8-41-301 and 8-41-303 shall be measured by any of the following methods 1) BAAQMD Manual of Procedures, Volume IV ST-7, 2) EPA Method 25, 3) EPA Method 25A. A source shall be considered in violation if the VOC emissions measured by any of the test methods exceed the standards of this rule.
8-41-602 Inspection Procedures: For the purposes of Section 8-41-303, leaks shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (40 CFR 60, Appendix A). (Adopted June 1, 1994)