RESOLUTION NO. 2015-12

A Resolution of the Board of Directors of the Bay Area Air Quality Management District
Adopting Proposed Amendments to District Regulation 8, Rule 18: Equipment Leaks; and Adopting a CEQA Negative Declaration for the Project

WHEREAS, public hearings have been properly noticed in accordance with the provisions of Health & Safety Code § 40725;

WHEREAS, the Board of Directors of the Bay Area Air Quality Management District has determined that a need exists to adopt proposed amendments to District Regulation 8, Rule 18: Equipment Leaks; as set forth in Attachment A hereto (“Proposed Amendments”);

WHEREAS, the Board of Directors of the Bay Area Air Quality Management District obtains its authority to adopt, amend or repeal rules and regulations from Sections 40000, 40001, 40702, and 40725 through 40728.5, of the California Health & Safety Code;

WHEREAS, the Board of Directors of the Bay Area Air Quality Management District has determined that the Proposed Amendments are written and displayed so that their meaning can be easily understood by the persons directly affected by the rule;

WHEREAS, the Board of Directors of the Bay Area Air Quality Management District has determined that the Proposed Amendments are in harmony with and not in conflict with or contradictory to existing statutes, court decisions, and state and federal regulations;

WHEREAS, the Board of Directors of the Bay Area Air Quality Management District has determined that the Proposed Amendments do not impose the same requirements as any existing state or federal regulation, and are necessary and proper to execute the power and duties granted to, and imposed upon, the District;

WHEREAS, the Board of Directors of the Bay Area Air Quality Management District, by adopting the Proposed Amendments, is implementing, interpreting or making specific the provisions of Health & Safety Code § 40001 (rules to achieve ambient air quality standards), and § 40702 (rulemaking actions that are necessary and proper to execute the powers and duties granted to it);

WHEREAS, the Board of Directors of the Bay Area Air Quality Management District adopted Resolution 2014-17 in October 2014, instructing District staff to develop a regulatory strategy that would further reduce emissions from petroleum refineries;

WHEREAS, the District prepared an initial concept paper and draft amendments, and published them for comment on May 26, 2015;
WHEREAS, the District held public workshops on September 15, 17, and 28, 2015, to discuss the draft amendments with interested parties and the public;

WHEREAS, on September 21, 2015, District staff discussed the draft amendments with the Stationary Source Committee of the Board of Directors of the Bay Area Air Quality Management District;

WHEREAS, on October 7, 2015, District staff discussed the draft amendments with the Board of Directors of the Bay Area Air Quality Management District;

WHEREAS, subsequent to the public workshops, on October 23, 2015, District staff revised the draft amendments based on comments provided by the public and published the draft amendments for comment in advance of the public hearing;

WHEREAS, on November 13, 2015, the District transmitted the text of the draft amendments to California Air Resources Board;

WHEREAS, on or before October 23, 2015, District staff published in newspapers and distributed and published on the District's website a notice of a public hearing to be held on December 16, 2015 to consider adoption of the draft amendments, and the notice included a request for public comments and input on the draft amendments;

WHEREAS, the Board of Directors of the Bay Area Air Quality Management District held a public hearing on December 16, 2015 to consider the draft amendments in accordance with all provisions of law;

WHEREAS, at the public hearings, the subject matter of the Proposed Amendments was discussed with interested persons in accordance with all provisions of law;

WHEREAS, District staff has prepared and presented to the Board of Directors a detailed Staff Report regarding the Proposed Amendments, which Staff Report has been considered by this Board and is incorporated herein by reference;

WHEREAS, the Board of Directors finds and determines that the Proposed Amendments are considered a "project" pursuant to the California Environmental Quality Act ("CEQA") (Public Resources Code § 21000 et seq.);

WHEREAS, the District is the CEQA lead agency for this project pursuant to CEQA Guidelines § 15050 (14 California Code of Regulations ("CCR") § 15050);

WHEREAS, District staff contracted with Environmental Audit, Inc., of Placentia, California to prepare an assessment of the potential environmental effects from the adoption and implementation of the Proposed Amendments;

WHEREAS, Environmental Audit, Inc., prepared an Initial Study as required by CEQA, in which the potential environmental effects from the adoption and implementation of the
Proposed Amendments were analyzed, and subsequently prepared a Draft Negative Declaration for the proposed rulemaking project because the Initial Study identified no potentially significant effects on the environment and because there is no evidence in the record before the District that there could be a significant effect on the environment from the adoption and implementation of this rulemaking project;

WHEREAS, that Draft Negative Declaration and Initial Study were offered for and subjected to public review and comment (Public Resources Code §§ 21082.1, 21091, 21092; California Code of Regulations, title 14, § 15070 et seq.);

WHEREAS, public notice was provided and copies of the Draft Negative Declaration were made available to all interested persons and provided an adequate comment period of at least 20 days pursuant to CEQA Guidelines § 15105, subdivision (b);

WHEREAS, comments on the CEQA document were received from interested persons and responses to those comments were included in the final Staff Report;

WHEREAS, District staff, in exercising its independent judgment, has determined that there is no substantial evidence, in light of the whole record before the District, that the adoption and implementation of the Proposed Amendments could have a significant effect on the environment;

WHEREAS, it is necessary that the adequacy of the Draft Negative Declaration be determined by the Board of Directors of the Bay Area Air Quality Management District prior to its adoption;

WHEREAS, the members of the Board of Directors voting on this Resolution have reviewed and considered the Draft Negative Declaration;

WHEREAS, the Board of Directors finds and determines that in light of the whole record before it (which specifically includes the Initial Study and the Draft Negative Declaration), the Proposed Amendments will not have any significant effect on the environment, and the Negative Declaration reflects the District's independent judgment and analysis;

WHEREAS, the Board of Directors, pursuant to the requirements of Health & Safety Code § 40728.5, has actively considered the socioeconomic impacts of Proposed Amendments and has reviewed and considered the “Socio-Economic Analysis: Proposed Amendments to Regulation 8, Rule 18 ("Equipment Leaks"), Regulation 11, Rule 10 ("Hexavalent Chromium Emissions and Total Hydrocarbon Emissions From Petroleum Refinery Cooling Towers"), and Draft New Regulation 6, Rule 5 ("Particulate Emissions from Refinery Fluidized Catalytic Cracking Units")" prepared for the District by Applied Development Economics, Inc. of Walnut Creek, California, and has determined that the Proposed Amendments would have no significant socioeconomic impacts;

WHEREAS, the Board of Directors, pursuant to the requirements of Health & Safety Code § 40920.6, has actively considered the incremental cost-effectiveness of the
Proposed Amendments in meeting emission reduction goals under the California Clean Air Act, as set forth in Appendix B of the Staff Report, and finds and determines that there are no incrementally more cost-effective potential control options that would achieve the emission reduction objectives of the Proposed Amendments;

WHEREAS, the District has prepared, pursuant to the requirements of Health & Safety Code § 40727.2, a written analysis of federal, state, and District requirements applicable to this source category, as set forth in Appendix B of the Staff Report, and has found that the Proposed Amendments would not be conflict with any federal, state, or other District rules, and the Board of Directors has agreed with these findings;

WHEREAS, the documents and other materials that constitute the record of proceedings on which this rulemaking project is based are located at the Bay Area Air Quality Management District, 939 Ellis Street, San Francisco, 94109, and the custodian for these documents is Maricela Martinez, Clerk of the Boards;

WHEREAS, District staff recommends adoption of the Proposed Amendments and adoption of the Negative Declaration for this rulemaking project;

WHEREAS, the Board of Directors concurs with District staff’s recommendations and desires to adopt the Proposed Amendments and to adopt the Negative Declaration for the Proposed Amendments to comply with CEQA.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Bay Area Air Quality Management District does hereby adopt the Proposed Amendments, pursuant to the authority granted by law, as set forth in Attachment A hereto, and discussed in the Staff Report (including Appendices) with instructions to staff to correct any typographical or formatting errors before final publication of the Proposed Amendments.

BE IT FURTHER RESOLVED that the Board of Directors of the Bay Area Air Quality Management District does hereby adopt the Negative Declaration pursuant to CEQA for the Proposed Amendments.

BE IT FURTHER RESOLVED that the Board of Directors directs staff to examine emission reduction and cost effectiveness issues related to the inclusion in Regulation 8, Rule 18 of requirements for monitoring of components in heavy liquid service, and to report back to the Stationary Source Committee prior to July 2017 regarding the results of the examination together with recommendations for modifying the rule if appropriate based on the results.
The foregoing resolution was duly and regularly introduced, passed and adopted at a regular meeting of the Board of Directors of the Bay Area Air Quality Management District on the Motion of Director GIOIA, seconded by Director MITCHOFF, on the 16th day of DECEMBER, 2015 by the following vote of the Board:

AYES: AVALOS, BARRETT, CANEPA, CHAVEZ, GIOIA, GROOM, HUDSON, KIM, KNIS, MAR, MITCHOFF, RICE, ROSS, SPERING, WAGENKNECHT, ZANE

NOES: NONE.

ABSENT: BATES, FUJIOKA, HAGGERTY, MILEY, PEPPER, SINKS

Carole Groom
Chairperson of the Board of Directors

ATTEST:

Liz Kniss
Secretary of the Board of Directors
ATTACHMENT A

[PROPOSED AMENDMENTS]

Regulation 8, Rule 18: Equipment Leaks
8-18-100 GENERAL

8-18-101 Description
8-18-110 Exemption, Controlled Seal Systems and Pressure Relief Devices
8-18-111 Exemption, Small Facilities
8-18-112 Limited Exemption, Bulk Plant and Terminal Loading Racks
8-18-113 Limited Exemption, Initial Boiling Point
8-18-114 Limited Exemption, Research and Development
8-18-115 Limited Exemption, Storage Tanks
8-18-116 Limited Exemption, Vacuum Service
8-18-117 Limited Exemption, Visual Inspections
8-18-118 Deleted January 7, 1998
8-18-119 Limited Exemption, Open-Ended Valve or Line
8-18-120 Limited Exemption, Non-repairable Equipment

8-18-200 DEFINITIONS

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8-18-202 Bulk Plants and Terminals
8-18-203 Chemical Plant
8-18-204 Connection
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8-18-209 Leak Minimization
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8-18-214 Pressure Relief Device
8-18-215 Process Unit
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8-18-217 Reinspection
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8-18-219 Total Organic Compounds
8-18-220 Turnaround
8-18-221 Valve
8-18-222 Weephole
Deleted January 7, 1998
Deleted January 7, 1998
8-18-225 Major Leak
8-18-226 Essential Equipment
8-18-227 Open-Ended Valve or Line
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8-18-300 STANDARDS

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8-18-302 Valves
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8-18-309 Open-Ended Line or Valve
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8-18-401 Inspection
8-18-402 Identification
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8-18-404 Alternate Inspection Schedule
8-18-405 Alternate Emission Reduction Plan
8-18-406 Interim Compliance
8-18-407 Recurrent Leak Schedule

8-18-500 MONITORING AND RECORDS
8-18-501 Portable Hydrocarbon Detector
8-18-502 Records
8-18-503 Reports

8-18-600 MANUAL OF PROCEDURES
8-18-601 Analysis of Samples
8-18-602 Inspection Procedures
8-18-603 Determination of Control Efficiency
8-18-604 Determination of Mass Emissions
8-18-100 GENERAL

8-18-101 Description: The purpose of this Rule is to limit emissions of total organic compounds and methane from leaking equipment at petroleum refineries, chemical plants, bulk plants and bulk terminals including, but not limited to: valves, connectors, pumps, compressors, pressure relief devices, diaphragms, hatches, sight-glasses, fittings, sampling ports, meters, pipes, and vessels.

(Amended 3/17/82; 3/4/92; 1/7/98; 1/21/04; 9/15/04)

8-18-110 Exemption, Controlled Seal Systems and Pressure Relief Devices: The provisions of this Rule shall not apply to seal systems and pressure relief devices vented to a vapor recovery or disposal system which reduces the emissions of organic compounds from the equipment by 95% or greater as determined according to Section 8-18-603.

(Amended, Renumbered 1/7/98)

8-18-111 Exemption, Small Facilities: The provisions of this rule shall not apply to facilities which have less than 100 valves or less than 10 pumps and compressors. Such facilities are subject to the requirements of Regulation 8, Rule 22.

(Adopted 4/3/92; Amended, Renumbered 1/7/99)

8-18-112 Exemption, Bulk Plant and Terminal Loading Racks: The provisions of this rule shall not apply to those connections at the interface between the loading rack and the vehicle being loaded.

(Adopted 4/3/92; Amended, Renumbered 1/7/99)

8-18-113 Limited Exemption, Initial Boiling Point: Until January 1, 2018, the provisions of Sections 8-18-400 shall not apply to equipment which handle organic liquids having an initial boiling point greater than 302° F.

(Adopted 3/4/92; Amended, Renumbered 1/7/99)

8-18-114 Limited Exemption, Research and Development: The provisions of Sections 8-18-401, 402 and 502 shall not apply to research and development plants which produce only non-commercial products solely for research and development purposes.

(Adopted 3/4/92; Amended, Renumbered 1/7/99)

8-18-115 Limited Exemption, Storage Tanks: The provisions of this rule shall not apply to appurtenances on storage tanks including pressure relief devices, which are subject to requirements contained in Regulation 8, Rule 5: Storage of Organic Liquids.

(Adopted January 7, 1999)

8-18-116 Limited Exemption, Vacuum Service: The provisions of Sections 8-18-400 and 502 shall not apply to equipment in vacuum service.

(Amended January 7, 1999)

8-18-117 Limited Exemption, Visual Inspection: The provisions of Section 8-18-403 shall not apply to days when a facility is not staffed.

(Amended, Renumbered January 7, 1998)

8-18-118 Deleted January 7, 1998

8-18-119 Limited Exemption, Open-Ended Valve or Line: The provisions of Section 8-18-309 shall not apply to the following:

119.1 Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset.

119.2 Open-ended valves or lines containing materials which would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system.
Limited Exemption, Non-repairable Equipment: The provisions of Sections 8-18-306 and 311 shall not apply to equipment added to the non-repairable equipment list prior to [date of amendment adoptions] except that:

120.1 The equipment must be counted toward the total number of pieces of equipment allowed by Section 8-18-306.2.

120.2 Any connection on the list must be counted as two valves toward the total number of non-repairable valves allowed by Section 8-18-306.2.

120.3 Any valve on the list with a leak that cannot be minimized below a concentration of 10,000 parts per million (ppm), expressed as methane, may not remain on the list for more than 45 days after leak discovery unless the mass emission rate has been measured in accordance with Section 8-18-604 and has been determined to be less than 15 pounds per day.

120.4 The equipment must be repaired or replaced within five years or at the next scheduled turnaround, whichever date comes first.

DEFINITIONS

Background: The ambient concentration of total organic compounds determined at least 3 meters (10 feet) upwind from the equipment to be inspected and not influenced by any specific emission point as indicated by a hydrocarbon analyzer specified by Section 8-18-501.

Bulk Plants and Terminals: A distribution facility which that is subject to Regulation 8, Rule 6, 33 or 39.

Chemical Plant: Any facility engaged in producing organic or inorganic chemicals and/or manufacturing products by chemical processes— including (1) aAny facility or operation that has 325 as the first three digits in the North American Industrial Classification Standard (NAICS) code. Chemical plants may— include— but are not limited to: the manufacture of:— (2) any facility that manufactures industrial inorganic and organic chemicals; plastic and synthetic resins, synthetic rubber, synthetic and other man-made fibers; drugs; soap, detergents and cleaning preparations;— perfumes, cosmetics, and other toilet preparations; paints, varnishes, lacquers, enamels, and allied products; agricultural chemicals; safflower and sunflower oil extracts; and (3) any facility engaged in re-refining.

Connection: Flanged, screwed, or other joined fittings used to connect any piping or equipment, including any fitting connecting equipment to piping or other equipment, such as a valve bonnet flange or pump flange.

Equipment: All components including, but not limited to: valves, connections, pumps, compressors, pressure relief devices, diaphragms, hatches, fittings, sampling ports, pipes, plugs, open-ended lines, gauges or sight-glasses.

Inaccessible Equipment: Any equipment located over 13 feet above the ground when access is required from the ground; or any equipment located over 6.5 feet away from a platform when access is required from a platform.

Inspection: The determination of the concentration of total organic compounds leaking from equipment using EPA Reference Method 21 as required by Section 8-18-601.

Leak: The concentration of total organic compounds above background, expressed as methane, as measured 1 centimeter or less from the leak using EPA Reference Method 21 in accordance with Section 8-18-602.

Leak Minimization: Reducing the leak to the lowest achievable level using best modern practices and without shutting down the process the equipment serves. Leak minimization is the most common method for repair. Leak minimization includes but is not limited to tightening of packing gland nuts, injecting lubricant into lubricated...
8-18-210 Leak Repair: The tightening, adjustment, or addition of material, or the replacement of the equipment using best modern practices, which reduces the leakage to the atmosphere below the applicable standard in Section 8-18-300.

8-18-211 Liquid Leak: Dripping of liquid at a rate of greater than 3 drops per minute and a concentration of total organic compounds greater than the applicable leak standard in Section 8-18-300.

8-18-212 Organic Compound: Any compound of carbon, excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates and ammonium carbonate.

8-18-213 Petroleum Refinery: Any facility that processes petroleum products as defined in North American Industrial Classification Standard Number 32411, Petroleum Refining.

8-18-214 Pressure Relief Device: The automatic pressure-relieving device actuated by the static pressure upstream of the device, including, but not limited to pressure relief valves and rupture disks.

8-18-215 Process Unit: A manufacturing process which is independent of other processes and is continuous when supplied with a constant feed or raw materials and has sufficient storage facilities for product.

8-18-216 Quarter: One of the four consecutive 3-month divisions of the calendar year beginning on January 1.

8-18-217 Reinspection: Any inspection following the minimization or repair of leaking equipment.

8-18-218 Rupture Disc: The thin metal diaphragm held between flanges.

8-18-219 Total Organic Compounds: The concentration of organic compounds and methane as indicated by a hydrocarbon analyzer as specified by Section 8-18-501.

8-18-220 Turnaround: The scheduled shutdown of a process unit for maintenance and repair work.

8-18-221 Valve: Any device that regulates the flow of process material by means of an external actuator acting to permit or block passage of liquids or gases.

8-18-222 Weephole: A drain hole in the discharge horn of a pressure relief device.

8-18-223 Deleted January 7, 1998

8-18-224 Deleted January 7, 1998

8-18-225 Major Leak: Any leak that cannot be minimized below a concentration of 10,000 parts per million (ppm) total organic compounds, expressed as methane.

8-18-226 Essential Equipment: Any valve, connection, pressure relief device, pump or compressor that cannot be taken out of service without shutting down the process unit that it serves.

8-18-227 Open-Ended Valve or Line: Any valve, except a safety relief valve, having one side of the valve seat in contact with process fluid and one side open to the atmosphere, either directly or through open piping.
8-18-300 Standards

8-18-301 General: Except for valves, pumps and compressors, connections and pressure relief devices subject to the requirements of Sections 8-18-302, 303, 304, 305 and 306, a person shall not use any equipment that leaks total organic compounds in excess of 100 ppm unless the leak has been discovered by the operator, minimized within 24 hours and repaired within 7 days. (Amended 7/15/81; 3/17/82; 9/6/89; 3/4/92; 1/7/98)

8-18-302 Valves: Except as provided in Section 8-18-306, a person shall not use any valve that leaks total organic compounds in excess of 100 ppm unless one of the following conditions is met:

302.1 If the leak has been discovered by the operator, minimized within 24 hours and repaired within 7 days; or

302.2 If the leak has been discovered by the APCO, the leak must be repaired within 24 hours; or

302.3 The valve meets the applicable provisions of Section 8-18-306. (Adopted 3/4/92; Amended 1/7/98; 1/21/04)

8-18-303 Pumps and Compressors: Except as provided in Section 8-18-306, a person shall not use any pump or compressor that leaks total organic compounds in excess of 500 ppm unless one of the following conditions is met:

303.1 If the leak has been discovered by the operator, minimized within 24 hours and repaired within 7 days; or

303.2 If the leak has been discovered by the APCO, the leak must be repaired within 24 hours; or

303.3 The pump or compressor meets the applicable provisions of Section 8-18-306. (Adopted 3/4/92; Amended 1/7/98; 1/21/04)

8-18-304 Connections: Except as provided in Section 8-18-306, a person shall not use any connection that leaks total organic compounds in excess of 100 ppm unless one of the following conditions is met:

304.1 If the leak has been discovered by the operator, must be minimized within 24 hours and repaired within 7 days; or

304.2 If the leak has been discovered by the APCO, the leak must be repaired within 24 hours; and the leak has been discovered by the APCO, the leak must be repaired within 24 hours; or

304.3 The connection meets the applicable provisions of Section 8-18-306. (Adopted 3/4/92; Amended 1/7/98; 1/21/04)

8-18-305 Pressure Relief Devices: Except as provided in Section 8-18-306, a person shall not use any pressure relief device that leaks total organic compounds in excess of 500 ppm unless the leak has been discovered by the operator, minimized within 24 hours and repaired within 15 days; or if the leak has been discovered by the APCO, minimized within 24 hours and repaired within 7 days. (Amended January 7, 1999)

8-18-306 Non-repairable Equipment: Any essential equipment leak valve, connection, pressure relief device, pump or compressor which cannot be repaired as required by Section 8-18-302, 303, 304 or 305 may be placed on a non-repairable list provided the operator complies with the following conditions:

306.1 Any essential equipment leak must be less than 10,000 ppm and mass emissions must be determined within 30 days of placing on the non-repairable list. The APCO must be notified no less than 96 hours prior to conducting mass emissions measurements. The valve, connection, pressure relief device, pump or compressor is repaired or replaced within 5 years or at the next scheduled turnaround, whichever date comes first.
306.2 Effective July 1, 2004, the number of individual pieces of equipment awaiting repair does not exceed the percentage that portion of the total population for each equipment type expressed in the table below or 1 piece of equipment, rounded to the next higher whole number:

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Total Number of Non-repairable Equipment Allowed (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valves (including Valves with Major Leaks) and Connections as allowed by Section 8-18-306.3</td>
<td>0.15% of total number of valves</td>
</tr>
<tr>
<td>Valves with Major Leaks as allowed by Section 8-18-306.4</td>
<td>0.025% of total number of valves</td>
</tr>
<tr>
<td>Pressure Relief Devices</td>
<td>0.51% of total number of pressure relief devices</td>
</tr>
<tr>
<td>Pumps and Compressors</td>
<td>0.51% of total number of pumps and compressors</td>
</tr>
</tbody>
</table>

306.3 A connection that leaks in excess of 100 ppm and no greater than 10,000 ppm can be considered non-repairable equipment pursuant to Section 8-18-306 provided each non-repairable connection is considered counted as two valves toward the total number of non-repairable equipment valves allowed.

306.4 The essential equipment is repaired or replaced within five years or at the next scheduled turnaround, whichever date comes first.

Effective July 1, 2004, a valve with a major leak may not be considered non-repairable equipment pursuant to Section 8-18-306 for more than 45 days after leak discovery, unless the mass emission rate has been measured in accordance with Section 8-18-604 and has been determined to be less than 15 pounds per day. The APCO shall be notified no less than 96 hours prior to conducting measurements required by this section.

8-18-307 Liquid Leak: A person shall not use any equipment that leaks liquid as defined in Section 8-18-211, unless the leak has been discovered by the operator, minimized within 24 hours and repaired within 7 days.

8-18-308 Alternate Compliance: The requirements of Sections 8-18-301, 302, 303, 304, 305, 306 and 307 shall not apply to any facility which complies with an alternative emission reduction plan that satisfies all the requirements in Sections 8-18-405 and 406.

8-18-309 Open-Ended Valve or Line: Open-ended valves or lines shall be equipped with a cap, blind flange, plug or second valve which shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.

309.1 When a double block and bleed system is installed, the second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

309.2 When a double block and bleed system is in use, the bleed valve or line may remain open during operations that require venting the line between the block valves, but shall comply with Sections 8-18-309 and 309.1 at all times.

309.3 When a double block and bleed system is not in use, the open end of the second valve shall not leak greater than 100 ppm.

8-18-310 Recurrent Leaks: If a valve, pump, compressor or PRD is found leaking more than 3 consecutive quarters, the inspection frequency shall change from quarterly to monthly pursuant to Section 8-18-407.

8-18-311 Mass Emissions: A person shall not use any equipment that emits total organic compounds in excess of five pounds per day except during any repair periods allowed by Sections 8-18-301, 302, 303, 304, and 305.

8-18-400 ADMINISTRATIVE REQUIREMENTS
**8-18-401 Inspection:** Any person subject to this Rule shall comply with the following inspection requirements:

401.1 All equipment connections that have been opened during a turnaround shall be inspected for leaks within 90 days after start-up is completed following a turnaround.

401.2 Except as provided under Subsection 8-18-401.3, 404, 405, and 406 all valves, pressure relief devices, pumps or compressors subject to this Rule shall be inspected quarterly.

401.3 Inaccessible valves and pressure relief devices subject to this Rule shall be inspected at least once a year unless found leaking pursuant to Subsection 403.

401.4 Any equipment subject to this Rule may be inspected at any time by the APCO.

401.5 Any equipment found to have a leak in excess of the standard in Section 8-18-300 shall be reinspected within 24 hours after any leak repair or minimization.

401.6 Any connections subject to this Rule that is shall be inspected annually or be that is part of an APCO and EPA approved connection inspection program, is subject to the provisions of Subsection 8-18-304.2.

401.7 Any pressure relief device equipped with a weep hole shall be inspected quarterly at the outlet of the weep hole if the horn outlet is inaccessible.

401.8 Any pressure relief device that releases to the atmosphere shall be inspected within 5 working days after the release event.

401.9 Effective July 1, 2004, Any valve essential equipment placed on the non-repairable list shall be inspected at least once per quarter.

401.10 Effective July 1, 2004, The mass emission rate of any essential equipment valve with a major leak placed on the non-repairable list in accordance with Section 8-18-306 shall be determined at least once per calendar year. The APCO shall be notified no less than 96 hours prior to conducting the measurements required by this section.

401.11 The owner/operator shall identify the equipment and/or source of any background reading greater than 50 ppm.

**8-18-402 Identification:** Any person subject to this Rule shall comply with the following identification requirements:

402.1 All valves, pressure relief devices, pumps and compressors, and, effective January 1, 2017, connectors shall be identified with a unique permanent identification code approved by the APCO. This identification code shall be used to refer to the valve, connector, pressure relief device, pump or compressor location. Records for each valve, connector, pressure relief device, pump or compressor shall refer to this identification code.

402.2 All equipment with a leak in excess of the applicable leak limitation in Section 8-18-300 shall be tagged with a brightly colored weatherproof tag indicating the date the leak was detected.

(Amended 3/4/82; 1/7/98)

**8-18-403 Visual Inspection Schedule:** All pumps and compressors shall be visually inspected daily for leaks. If a leak is observed, the concentration shall be determined within 24 hours of discovery pursuant to Section 8-18-602. All pumps and compressors subject to this rule shall

(Renumbered January 7, 1998)

**8-18-404 Alternative Inspection Schedule:** The inspection frequency for valves or pumps may change from quarterly to annually provided all of the conditions in Subsection 404.1 and 404.2 are satisfied.

404.1 The valve or pump has been operated leak free for five consecutive quarters; and

404.2 Records are submitted to the District and approved from by the APCO, is obtained.

404.3 The valve or pump remains leak free pursuant to the Sections 8-18-302 and 303. If a leak is discovered, the inspection frequency will revert back to quarterly.
8-18-405 Alternate Emission Reduction Plan: Any person may comply with Section 8-18-308 by developing and submitting an alternate emission reduction plan to the APCO that satisfies all of the following conditions:

405.1 The plan shall contain all information necessary to establish, document, measure progress and verify compliance with an emission reduction level set forth in this rule.
405.2 All emission reductions must be achieved solely from equipment and connections subject to this rule.
405.3 Public notice and a 60-day public comment period shall be provided.
405.4 Following the public comment period, the plan shall be submitted to and approved in writing by the EPA, Region IX prior to the APCO approval of the plan.
405.5 An alternate emission reduction plan must provide for emission reductions equal to or greater than required by the specific limits in this rule.

(Adopted 1/7/98; Amended 11/27/02)

8-18-406 Interim Compliance: A facility is subject to the limits contained in Sections 8-18-301, 302, 303, 304, 305, 306 and 307 until receipt of the written approvals of both the APCO and the EPA of an Alternate Emission Reduction Plan that complies with Section 8-18-405.

(Adopted 1/7/98; Amended 11/27/02)

8-18-407 Recurrent Leak Schedule: For any valve, pump, compressor or pressure relief device found leaking in more than three consecutive quarters, a person subject to this Rule shall comply with the following requirements:

407.1 The inspection frequency shall be changed from quarterly to monthly; and
407.2 Records of each valve, pump, compressor and pressure relief device changed to monthly monitoring shall be submitted to the District each quarter pursuant to Section 8-18-503.1.
407.3 If the valve, pump, compressor or pressure relief device remains leak free for four consecutive months pursuant to Sections 8-18-302, 303 and 305 the inspection frequency will revert back to quarterly upon request and after APCO approval.

8-18-500 MONITORING AND RECORDS

8-18-501 Portable Hydrocarbon Detector: Any instrument used for the measurement of total organic compounds shall be a combustible gas indicator that has been approved by the APCO and meets the specifications and performance criteria of and has been calibrated in accordance with EPA Reference Method 21 (40 CFR 60, Appendix A).

(Amended 3/17/82; 9/6/89; 3/4/92)

8-18-502 Records: Any person subject to the requirements of this rule shall maintain records that provided the following information:

502.1 For equipment subject to Section 8-18-402.1, the equipment identification code, equipment type and the location of the equipment.
502.2 The date, time, type of repairs and corresponding leak concentrations measured on all inspections and reinspections and the corresponding leak concentrations measured as specified by Section 8-18-401.
502.3 Records shall be maintained for at least 5 years and shall be made available to the APCO for inspection at any time.
502.4 Records of all non-repairable equipment subject to the provisions of Section 8-18-306 shall be maintained and contain the equipment identification code, equipment type, equipment location, initial leak concentration measurement and date, quarterly leak concentration measurements and dates, the duration the equipment has been on the non-repairable list, date of any repair attempts made to equipment, any mass emission rate determinations, date the determination was made, last process unit turnaround date, and total number of non-repairable equipment awaiting repair, and explanation why equipment was deemed essential equipment. (Adopted 3/4/82; Amended 1/7/88; 1/21/04)
502.5 Records of all equipment and/or sources identified as a result of background readings greater than 50 ppm.
8-18-503 Reports: Any person subject to the requirements of this rule shall submit the following information to the District:

503.1 Effective July 1, 2016, a report shall be submitted to the APCO quarterly that includes the following information:

3.1.1 The equipment identification code, equipment type, stream service, equipment location, leak concentration measurement and date, leak repair method and concentration measurements of any valves, pumps, compressors and PRDs found leaking in more than 3 consecutive quarters pursuant to Section 8-18-310.

3.1.2 Records of all non-repairable equipment subject to the provisions of Section 8-18-306 shall be submitted to the District quarterly and contain the equipment identification code, equipment type, equipment location, initial leak concentration measurement and date, the duration the equipment has been on the non-repairable list, any repair attempts made to equipment, mass emission rate determination, date the determination was made, last process unit turnaround date, and total number of non-repairable equipment awaiting repair and explanation why equipment was deemed essential equipment.

503.2 Effective July 1, 2016, a person subject to this rule shall submit to the District an inventory identifying the total numbers of valves, pressure relief devices, pumps and compressors and connections to which this rule applies broken down per unit or other grouping if component is not associated with an individual unit. After review and approval of the initial inventory by the APCO, annual inventory updates shall be submitted to the District every January 1st to which this rule applies shall be submitted to the District at least once a year.

503.4 Inspection records of all equipment opened during a turnaround shall be submitted to the District the first month following completion of the 90-day startup up leak inspections pursuant to Section 8-18-401.1.

503.5 By January 1, 2018, submit records required by Section 8-18-502.6 and annually thereafter for information that has changed since last submittal.

(Adopted January 21, 2004)

8-18-600 MANUAL OF PROCEDURES

8-18-601 Analysis of Samples: Samples of organic compounds as defined in Section 8-18-113 shall be analyzed for Initial Boiling Point as prescribed in ASTM D-1078-98 or ASTM D-86.

(Adopted 3/17/82; Amended 3/4/92; 1/7/98)

8-18-602 Inspection Procedure: Inspections of equipment shall be conducted as prescribed by EPA Reference Method 21 (40 CFR 60, Appendix A).

(Adopted 9/6/89; Amended 3/4/92; 1/7/98)

8-18-603 Determination of Control Efficiency: The control efficiency as specified by Section 8-18-110 shall be determined by any of the following methods: 1) BAAQMD Manual of Procedures, Volume IV, ST-7, 2) EPA Method 25 or 25A. A source shall be considered in violation if the emissions of organic compounds measured by any of the referenced test methods exceed the standards of this rule.

(Amended, Renumbered 1/7/98; Amended 1/21/04)

8-18-604 Determination of Mass Emissions: The mass emission determination as specified by Section 8-18-306 and Section 8-18-311 shall be made using any of the following methods: 1) EPA Protocol for Equipment Leak Emission Estimates, Chapter 4, Mass Emission Sampling, (EPA-453/R-95-017) November, 1995 or 2) a mass emission monitoring method determined to be equivalent by the EPA and approved by the APCO.

(Adopted 1/7/98; Amended 1/21/04)