

LANE REGIONAL AIR PROTECTION AGENCY

1010 Main Street, Springfield, Oregon 97477

Telephone: (541) 736-1056

Toll Free: (877) 285-7272

Fax: (541) 726-1205

Web Page: www.lrapa.org

STANDARD AIR CONTAMINANT DISCHARGE PERMIT
(Standard – ACDP)

Issued in accordance with provisions of Title 37, Lane Regional Air Protection Agency's Rules and Regulations, and based on the land use compatibility findings included in the permit record.

Issued To:

**Eugene Water & Electric Board
Steam Plant**
500 East 4th Avenue
Eugene, Oregon 97401

Land Use Compatibility Statement:

From: City of Eugene
Date: April 21, 1998

Mailing Address:

P.O. Box 10148
Eugene, Oregon 97440-2148

Fee Basis -Title 37, Table 1

B.12 Boilers over 30 MMBtu/hr
B.25 Electrical Power Generation
C.3 Source electing to maintain baseline
C.4 Source subject to a NSPS
C.5 Source with potential to emit more than
100 tons/yr of any regulated pollutant

Permit Number: 202505

Permit Type: Standard

SIC: 4911 Electric Power Generation
4961 Fuel-burning Equipment

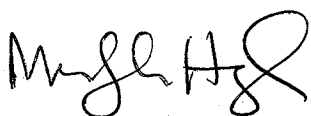
Date Issued: March 3, 2011

Expiration Date: March 3, 2016

Permitted Sources:

Boiler 1 - 171 MMBtu/hr, Oil-fired
Boiler 3 - 375.3 MMBtu/hr, Oil-fired
Boiler 4 - 82 MMBtu/hr, Gas/oil-fired
Boiler 5 - 120 MMBtu/hr, Gas/oil-fired
Boiler 6 - 28.5 MMBtu/hr, Gas-fired
2 Oil Storage Tanks (20 Mgal and 100Mgal)

Issued
By: _____



Merlyn L. Hough, Director

Effective
Date: _____

MAR - 3 2011

LIST OF ABBREVIATIONS USED IN THIS PERMIT

BER	Baseline Emission Rate
CFR	Code of Federal Regulations
CO	Carbon Monoxide
E	Emissions
EF	Emission factor
EPA	US Environmental Protection Agency
EU	Emissions unit
FCAA	Federal Clean Air Act
gr/dscf	Grain per dry standard cubic feet (1 pound = 7000 grains)
HAP	Hazardous Air Pollutant as defined by LRAPA Title 44
ID	Identification number
I&M	Inspection and maintenance
k	Conversion factor
LRAPA	Lane Regional Air Protection Agency
M	One thousand
MM	Million
MMBtu/hr	Million British thermal units per hour
NA	Not applicable
NESHAP	National Emission Standards for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NO _x	Nitrogen oxides
O&M	Operation and maintenance
OAR	Oregon Administrative Rules
ODEQ	Oregon Department of Environmental Quality
ORS	Oregon Revised Statutes
PCD	Pollution control device
PM	Particulate matter
PM ₁₀	Particulate matter less than 10 microns
PM _{2.5}	Particulate matter less than 2.5 microns
PSEL	Plant Site Emission Limit
SER	Significant Emission Rate
SO ₂	Sulfur dioxide
VHAP	Volatile hazardous air pollutant
VOC	Volatile organic compounds

Permitted Activities

1. Until this permit expires or is revoked, the permittee is herewith allowed to discharge exhaust gases containing air contaminants only in accordance with the permit application and the requirements, limitations, and conditions contained in this permit. This specific listing of requirements, limitations, and conditions does not relieve the permittee from complying with all other rules of Lane Regional Air Protection Agency (LRAPA).

Emission Unit (EU) and Pollution Control Device (PCD) Identification

2. The emission units (EU) regulated by this permit are the following:

Emission Unit ID (EU)	Emission Unit	PCD
EU-1	Boiler B-1, Erie City Iron Works, 171 MMBtu/hr, oil-fired (1931)	None
EU-3	Boiler B-3, Riley Stoker, 375.3 MMBtu/hr, oil-fired (1950)	Multiclone Precipitator
EU-4	Boiler B-4, Cleaver-Brooks/ DL-76-400-CN-6, 82 MMBtu/hr, gas/oil-fired (1994)	Lo-NOx Burners
EU-5	Boiler B-5, Zurn Industries "O" type, 120 MMBtu/hr, gas/oil-fired (1995)	Lo-NOx Burners
EU-6	Boiler B-6, Cleaver-Brooks/ ModCBLE-400-250ST, 28.5 MMBtu/hr, gas-fired (2010)	Lo-NOx Burners
EU-7	Underground Storage Tank T-1, 20 Mgallon capacity, oil	None
EU-8	Underground Storage Tanks T-2, 100 Mgallon capacity, oil	None

Performance Standards and Emission Limits

3. **By the tenth day of each month**, the permittee shall record the total monthly fuel usage and process production parameters listed in Condition 28 and calculate the emissions from the previous 12-month rolling period using the method in Condition 4. The totals shall be used to demonstrate compliance with the PSEs. [LRAPA 35-0160 and 35-0270].
4. Emissions shall be estimated for the plant site based on summing the emissions from each emission unit using the following equation: [LRAPA 35-0160]

$$E = \sum_{i-n} (EF \times P)/2000$$

- E** = Emissions in tons/year
- \sum_{i-n} = Symbol representing "summation of" emission units
- EF** = Pollutant emission factor (see Emission Factor Attachment)
- P** = Recorded production and/or throughput rate (see Condition 28)

The permittee must use the default emission factors provided in the Emission Factor Attachment to this permit.

Plant Site Emission Limits (PSELs)

5. The total emissions from the source shall not exceed the annual (12-month rolling) limits below.

Annual (12-month rolling) PSEL
(tons/year)

Source	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
Plant Site Totals	24	14	9	41	71	99	39

6. To ensure compliance with the annual PSEL, total fuel use, on a 12-month rolling basis, at the plant site shall not exceed:

- 6.a 496,102 gallons of diesel (or oil), including specification (on-specification) used oil with no more than 0.5 percent sulfur content;
- 6.b 1,190 million cubic feet of natural gas;
- 6.c **the combustion of hogged fuel and Bunker C (No. 6 Fuel) are prohibited;** and
- 6.d **Boiler 6 must be fired exclusively with natural gas.**

Synthetic Minor Limits

7. This source will continue to be classified as a synthetic minor (non-Title V facility) while the potential-to-emit is limited to less than:

100 tons per year of any criteria pollutant.

Any violation of any permit term that limits the potential-to-emit will be a violation of LRAPA 37-0020-4 (OAR 340-218-0020), and the permittee will need to apply for a Federal Operating Permit.

General Emission Standards and Limitations

- 8. The permittee shall not cause, suffer, allow, or permit the emission of any air contaminant, excluding uncombined water, into the atmosphere from any air contaminant source for a period or periods aggregating more than three (3) minutes in any one (1) hour that is equal or greater than 20 percent opacity. [LRAPA 32-010-1 and 3]
- 9. The maximum allowable emission of particulate matter from any combustion source installed, constructed, or modified after June 1, 1970 shall not exceed 0.1 grains per dry standard cubic foot of exhaust gas, adjusted to 50 percent excess air or calculated to 12 percent carbon dioxide. [LRAPA 32-030]
- 10. The maximum allowable emission of particulate matter from any combustion source installed, constructed, or modified prior to June 1, 1970 shall not exceed 0.2 grains per dry standard cubic foot of exhaust gas, adjusted to 50 percent excess air or calculated to 12 percent carbon dioxide. [LRAPA 32-020]
- 11. The permittee shall not use any fuel other than natural gas, ASTM grade fuel oils, or on-specification used oil.
- 12. The permittee shall not use fuel oils or on-specification used oil containing more than the following percentages of sulfur: [LRAPA 32-065-2]
 - 12.a 0.3% sulfur by weight for ASTM Grade 1 fuel oil;
 - 12.b 0.5% sulfur by weight for ASTM Grade 2 fuel oil;

The permittee is allowed to use on-specification used oil that contains no more than 0.5% sulfur by weight. The permittee must obtain analyses from the marketer or, if generated on site, have the used oil analyzed, so that it can be demonstrated that each shipment or batch of oil does not exceed the used oil specifications contained in 40 CFR Part 279.11, Table 1.

New Source Performance Standards (NSPS)

13. **Boiler 4:**

The permittee shall comply with the NSPS requirements of 40 CFR 60 Subpart Dc relating to Boiler 4, including but not necessarily limited to the following:

13.a. The permittee shall not combust any fuel oil in Boiler 4 which contains greater than 0.5 weight percent sulfur. [40 CFR 60.42c(d)]

13.b. The permittee shall not allow emissions to the atmosphere from Boiler 4 that exceed 20 percent opacity (6-minute average), except for one (1) 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43c(c)] This opacity standard applies at all times, except during periods of startup, shutdown, or malfunction. [40 CFR 60.43c(d)]

14. **Boiler 5:**

The permittee shall comply with the NSPS requirements of 40 CFR 60 Subpart Db relating to Boiler 5, including but not necessarily limited to the following:

14.a. The permittee shall not combust any fuel oil in Boiler 5 which contains greater than 0.5 weight percent sulfur. [40 CFR 60.42b(j) and 40 CFR 60.41b]

14.b. The permittee shall not allow emissions to the atmosphere from Boiler 5 that exceed 20 percent opacity (6-minute average), except for one (1) 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43b(f)] This opacity standard applies at all times, except during periods of startup, shutdown, or malfunction. [40 CFR 60.43b(g)]

14.c. The permittee shall not allow the emissions of NO_x (expressed as NO₂) from the exhaust of Boiler 5 in excess of 0.20 pounds per million Btu heat input while combusting fuel oil and/or natural gas. [40 CFR 60.44b(a)(1)(ii)] This limit applies at all times including periods of startup, shutdown, or malfunction.

15. **Boiler 6:**

The permittee shall comply with the NSPS requirements of 40 CFR 60 Subpart Dc relating to Boiler 6, including but not necessarily limited to the following:

15.a. The permittee shall not allow emissions to the atmosphere from Boiler 6 that exceed 20 percent opacity (6-minute average), except for one (1) 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.43c(c)] This opacity standard applies at all times, except during periods of startup, shutdown, or malfunction. [40 CFR 60.43c (d)].

Monitoring for NSPS

16. **Boiler 4:**

The permittee has elected to demonstrate compliance with the sulfur dioxide standard based on fuel supplier certification and shall obtain fuel sulfur content certificates for each fuel oil delivery to the onsite tanks. [40 CFR 60.46c (a) and (e)]

17. **Boiler 5:**

The permittee shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere from Boiler 5 and record the output of the system. [40 CFR 60.48b (a)]

18. **Boiler 5:**
The permittee shall demonstrate compliance with the sulfur dioxide standard by combusting only very low sulfur oil and shall obtain and maintain fuel receipts from the fuel supplier that certify that the oil meets the applicable sulfur limit of 14.a. [40 CFR 60.49b(r)]
19. **Boiler 5:**
The permittee shall monitor steam-generating unit operating conditions and predict nitrogen oxide emission rates as specified in a plan approved by LRAPA pursuant to 40CFR60.49b(c). [40CFR60.48b (g) (2)]
20. **Boilers 6:**
The permittee has elected to only burn natural gas in Boiler 6 and therefore does not have requirements to demonstrate compliance with the sulfur dioxide standards outlined in 40CFR60 Subpart Dc. [40 CFR 60.46c]

Recordkeeping for NSPS

21. ***The permittee shall maintain records and submit quarterly*** reports to LRAPA in accordance with 40CFR60.48c for information relating to ***Boilers 4 and 6***.
22. ***The permittee shall maintain records and submit quarterly reports*** to LRAPA in accordance with 40CFR60.49b for information relating to ***Boiler 5***.

Source Testing Requirements for Emission Factor Verification

23. The permittee shall conduct source tests for verification of emission factors used to determine the PSEL and Synthetic Minor limitations for PM₁₀, CO and NO_x while burning diesel, on the exhaust stack of either Boiler 4 or 5 once during the term of this permit. [LRAPA 35-0120]
24. The permittee shall submit a source test plan to LRAPA at least 15 days prior to conducting the required testing. Source test reports shall be submitted to LRAPA within 45 days of completing the required testing.
25. All source testing shall be conducted in accordance with the Oregon Department of Environmental Quality's *Source Sampling Manual*.
26. Because only natural gas will be used as fuel, no testing is required for Boiler 6.

Monitoring and Recordkeeping

27. The permittee shall effectively inspect and monitor the operation and maintenance of the plant and associated air contaminant control facilities and shall implement the procedures necessary to monitor and record the following parameters. The permittee shall maintain records of all such data at the plant site for a period of two (2) years, and make these records available for inspection by authorized representatives of LRAPA. [LRAPA 35-0160]
 - 27.a. All operating and production parameters to be reported to LRAPA annually as required in Condition 29.
 - 27.b. Excess emission records as defined in LRAPA Title 36 (recorded on occurrence).
 - 27.c. A description of any maintenance to air contaminant control systems (recorded on occurrence).

28. **By the tenth (10th) day of each month**, the permittee shall record the following information for the emission units covered by this permit. A record of the following data shall be maintained for a period of two (2) years at the plant site and shall be available by authorized representatives of LRAPA. [LRAPA 35-0160]

Source	Recordkeeping	Minimum Recordkeeping Frequency
All boilers (cubic feet)	Gas, diesel (or oil) usage rate per boiler, in mmcf and mgals, respectively	Monthly
All boilers	Hours of operation per boiler	Monthly
All boilers	Steam production per boiler, in thousand pounds	Monthly

Reporting Requirements

29. For each year this permit is in effect, **the permittee shall submit to LRAPA by February 15 of each year this permit is in effect an annual summary report** as required to demonstrate compliance with Conditions 4, 5, and 6 for the preceding calendar year. [LRAPA 35-0160]

Fee Schedule

30. In accordance with adopted regulations, the permittee shall be invoiced 10/1 each year for the Annual Fee. [LRAPA 37-0020 Table 2]
31. Unless otherwise specified, all reports, test results, notifications, etc. required by the above terms and conditions shall be reported to the following office: [LRAPA 35-0160]

Lane Regional Air Protection Agency
1010 Main Street
Springfield, Oregon 97477
(541) 736-1056

MTL
7/06/10, 9/28/2010

Revised SL/cmw
12/17/2010

GENERAL PERMIT CONDITIONS

General Conditions and Disclaimers

- G1. A copy of the permit application and this Air Contaminant Discharge Permit (ACDP) must be available on site for inspection upon request.
- G2. The permittee shall allow the Director or his/her authorized representatives access to the plant site and pertinent records at all reasonable times for the purpose of making inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant discharge records and otherwise conducting necessary functions related to this permit in accordance with ORS 468.095. [LRAPA 13-020(1)(h)]
- G3. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

Performance Standards and Emission Limits

- G4. No person shall not cause or permit the emissions of any particulate matter which is greater than 250 microns in size if such particulate matter does or will deposit upon the real property of another person when notified by LRAPA that the deposition exists and must be controlled. [LRAPA 32-055]
- G5. No person shall discharge from any source whatsoever such quantities of air contamination which cause injury or damage to any persons, the public, business or property. Such determination to be made by LRAPA. [LRAPA 32-090(1)]
- G6. The permittee shall not cause or permit emission of water vapor if the water vapor causes or tends to cause detriment to the health, safety or welfare of any person or causes, or tends to cause damage to property or business. [LRAPA 32-090(2)]
- G7. The permittee shall not willfully cause or permit the installation or use of any device or use of any means which, without resulting in a reduction in the total amount of air contaminants emitted, conceals emissions of air contaminants which would otherwise violate LRAPA rules. [LRAPA 33-030(1)]
- G8. The permittee shall not cause or permit the installation or use of any device or use of any means designed to mask the emissions of an air contaminant which causes or tends to cause detriment to health, safety or welfare of any person. [LRAPA 33-030(2)]
- G9. The permittee shall not allow any materials to be handled, transported, or stored; or a building, its appurtenances or road(s) to be used, constructed, altered, repaired, or demolished; or any equipment to be operated, without taking reasonable precautions to prevent particulate matter from being airborne. [LRAPA 48-015(2)]
- G10. No person may cause or allow air contaminants from any source subject to regulation by LRAPA to cause nuisance. [LRAPA 49-010(1)]

Excess Emissions: General Policy

- G11. Emissions of air contaminants in excess of applicable standards or permit conditions are unauthorized and are subject to enforcement action, pursuant to LRAPA 36-010 and 36-030. These rules apply to any permittee operating a source which emits air contaminants in violation of any applicable air quality rule or permit condition, including but not limited to excess emissions

resulting from the breakdown of air pollution control equipment or operating equipment, process upset, startup, shutdown, or scheduled maintenance. Sources that do not emit air contaminants in excess of any applicable rule or permit condition are not subject to the recordkeeping and reporting requirements in LRAPA Title 36. [LRAPA 36-001(1)]

Excess Emissions: Notification and Record-keeping

- G12. For all other excess emissions not addressed in LRAPA Sections 36-010, 36-015, or 36-040, the following requirements apply. The owner or operator, of a small source, as defined by Section 36-005-7, need not notify LRAPA of excess emissions events immediately unless otherwise required by permit condition, written notice by LRAPA, or if the excess emission is of a nature that could endanger public health [LRAPA 36-020(1)]

Notification shall be made to the LRAPA office. The current LRAPA telephone number during regular business hours (8 a.m. - 5 p.m., M-F) is (541) 736-1056. During nonbusiness hours, weekends, or holidays, the permittee shall immediately notify LRAPA by calling the LRAPA Upset/Complaint Line. The current number is (541) 726-1930.

Follow-up reporting, if required by LRAPA, shall contain all information required by Condition G15.

- G13. At each reporting period specified in this permit, or sooner if required by LRAPA, the permittee shall submit a copy of the upset log entries for the reporting period, as required by Condition G15. [LRAPA 36-025(4)]
- G14. Any excess emissions which could endanger public health or safety shall immediately be reported to the Oregon Emergency Response System (OERS) at 1-800-452-0311.
- G15. The permittee shall keep an upset log of all planned and unplanned excess emissions. [LRAPA 36-025(3) and 36-030(1)] The upset log shall include the following:
- a. date and time each event was reported to LRAPA;
 - b. whether the process handling equipment and the air pollution control equipment were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
 - c. whether repairs or corrections were made in an expeditious manner when the permittee knew or should have known that emission limits were being or were likely to be exceeded;
 - d. whether the event was one in a recurring pattern of incidents which indicate inadequate design, operation, or maintenance; and
 - e. final resolution of the cause of the excess emissions.

Upset logs shall be kept by the permittee for five (5) calendar years. [LRAPA 36-025(4)]

Excess Emissions: Scheduled Maintenance

- G16. Where it is anticipated that shutdown, by-pass, or operation at reduced efficiency of production equipment or air pollution control equipment for necessary scheduled maintenance may result in excess emissions, the permittee must obtain prior LRAPA approval of procedures that will be used to minimize excess emissions. Application for approval of procedures associated with the scheduled maintenance shall be submitted and received by LRAPA in writing at least seventy-two (72) hours prior to the event. [LRAPA 36-015(1)] The application shall include the following:

- a. reasons explaining the need for maintenance, including why it would be impractical to shut down the source operation during the period, and why the by-pass or reduced efficiency could not be avoided through better scheduling for maintenance or through better operation and maintenance practices;
 - b. identification of the specific production or emission control equipment or system to be maintained;
 - c. nature of the air contaminants likely to be emitted during the maintenance period, and the estimated amount and duration of the excess emissions, including measures such as the use of overtime labor and contract services and equipment that will be taken to minimize the length of the maintenance period; and
 - d. identification of specific procedures to be followed which will minimize excess emissions.
- G17. No scheduled maintenance which is likely to result in excess emissions shall occur during any period in which an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency has been declared, or during an announced "Stage I Red" woodstove advisory period, in areas determined by LRAPA as PM₁₀ Nonattainment Areas. [LRAPA 36-015(6)]
- G18. In cases where LRAPA has not received notification of scheduled maintenance that is likely to cause excess emissions within the required seventy-two (72) hours prior to the event, or where such approval has not been waived pursuant to LRAPA 36-015-3, the permittee shall immediately notify LRAPA by telephone of the situation, and shall be subject to the requirements of Conditions G12 and G13. [LRAPA 36-015(7)]

Air Pollution Emergencies

- G19. The permittee shall, upon declaration of an air pollution episode, take all actions specified in Tables 1, 2, and 3 of LRAPA's Title 51 (see Attachment A) and shall particularly put into effect the LRAPA-approved preplanned abatement strategy for such condition, if applicable. [LRAPA 51-015]

Notification of Construction/Modification

- G20. The permittee shall notify LRAPA in writing and obtain approval in accordance with LRAPA 34-035 before:
- a. constructing or installing any new source of air contaminant emissions, including air pollution control equipment; or
 - b. modifying or altering an existing source that may significantly affect the emissions of air contaminants, or
 - c. making any physical change which increases emissions; or
 - d. changing the method of operation, the process, or the fuel use, or increasing the normal hours of operation to levels above those contained in the permit application and reflected in this permit and which result in increased emissions.

Notification of Name Change

- G21. The permittee shall notify LRAPA in writing, using an LRAPA Application for Administrative Amendment to ACDP form, within 60 days after legal change of the registered name of the company with the Corporation Division of the State of Oregon.

Applicable administrative fees must be submitted with an application for the name change.

Permit Renewal

- G22. Application for renewal of this permit must be submitted not less than 60 days prior to the permit expiration date. [LRAPA 37-0040]
- G23. The procedure for issuance of a permit shall apply to renewal of a permit. If a completed application for a renewal of a permit is filed with LRAPA in a timely manner, prior to the expiration date of the permit, the permit shall not be deemed to expire until final action has been taken on the renewal application to issue or deny a permit. [LRAPA 37-0082-1]

Termination Conditions

- G24. This permit shall be automatically terminated upon: [LRAPA 37-0082]
- a. Issuance of a renewal or new ACDP for the same activity or operation;
 - b. Written request of the permittee, if LRAPA determines that a permit is no longer required;
 - c. Failure to submit a timely application for permit renewal. Termination is effective on the permit expiration date; or;
 - d. Failure to pay annual fees within 90 days of invoice by LRAPA, unless prior arrangements for payment have been approved in writing by LRAPA.
- G25. If LRAPA determines that a permittee is in noncompliance with the terms of the permit, submitted false information in the application or other required documentation, or is in violation of any applicable rule or statute, LRAPA may revoke the permit. Notice of the intent to revoke the permit will be provided to the permittee in accordance with LRAPA Title 14. The notice will include the reasons why the permit will be revoked, and include an opportunity for hearing prior to the revocation. A written request for hearing must be received within 60 days from service of the notice, and must state the grounds of the request. The hearing will be conducted as a contested case hearing in accordance with LRAPA Title 14. The permit will continue in effect until the 60 days expires, or until a final order is issued if an appeal is filed, whichever is later. [LRAPA 37-0082-4]
- G26. A permit automatically terminated under 37-0082-2.B. through 2.D. may only be reinstated by the permittee by applying for a new permit, including the applicable new source permit application fees as set forth in Title 37. [LRAPA 37-0082-3]
- G27. If LRAPA finds there is a serious danger to the public health, safety or the environment caused by a permittee's activities, LRAPA may immediately revoke or refuse to renew the permit without prior notice or opportunity for a hearing. If no advance notice is provided, notification will be provided to the permittee as soon as possible as provided in LRAPA Title 14. The notification will set forth the specific reasons for the revocation or refusal to renew. For the permittee to contest LRAPA's revocation or refusal to renew LRAPA must receive a written request for a hearing within 90 days of service of the notice and the request must state the grounds for the request. The hearing will be conducted as a contested case hearing in accordance with LRAPA Title 14. The revocation or refusal to renew becomes final without further action by LRAPA if a request for a hearing is not received within the 90 days. [LRAPA 37-0082-4.B]
- G28. Any hearing requested shall be conducted pursuant to the rules of LRAPA. [LRAPA Title 31]
- G29. The permittee may be required to submit, by April 20 of each year, the emission inventory form provided by LRAPA. [LRAPA 34-015]

ATTACHMENT A: Air Pollution Emergencies

Table I

AIR POLLUTION EPISODE: **ALERT CONDITION**

EMISSION REDUCTION PLAN

Part A: Pollution Episode Conditions for Carbon Monoxide or Ozone

For **Alert Conditions** due to excessive levels of carbon monoxide or ozone, persons operating motor vehicles shall be requested to voluntarily curtail or eliminate all unnecessary operations within the designated **Alert Area**, and public transportation systems shall be requested to provide additional services in accordance with a preplanned strategy.

Part B: Pollution Episode Conditions for Particulate Matter

For **Alert Conditions** resulting from excessive levels of particulate matter, the following measures shall be taken in the designated area:

1. There shall be no open burning by any person of any material.
2. Persons operating fuel-burning equipment which requires boiler lancing or soot blowing shall perform such operations only between the hours of 12 noon and 4 p.m.
3. Persons responsible for the operation of any source of air contaminants listed below shall take all required actions for the **Alert Level**, in accordance with the preplanned strategy:

Source of Contamination	Control Actions — Alert Level
A. Coal, oil, or wood-fired facilities.	<ol style="list-style-type: none">1) Utilization of electric generating fuels having low ash and sulfur content.2) Utilization of mid-day (12:00 noon to 4:00 p.m.) atmospheric turbulence for boiler lancing and soot blowing.3) Diverting electric power generation to facilities outside of Alert Area.
B. Coal, oil, or wood-fired process steam generating facilities.	<ol style="list-style-type: none">1) Utilization of fuel having low ash and sulfur content.2) Utilization of mid-day (12:00 noon to 4:00 p.m.) atmospheric turbulence for boiler lancing and soot blowing.

Source of Contamination	Control Actions — <i>Alert Level</i>
	3) Substantial reduction of steam load demands consistent with continuing plant operations.
C. Manufacturing industries of the following classifications: - Primary Metals Industries - Petroleum Refining - Chemical Industries - Mineral Processing Indus. - Grain Industries - Paper and Allied Products - Wood Processing Industry	1) Reduction of air contaminants from manufacturing operations by curtailing postponing, or deferring production and all operations. 2) Reduction by deferring trade waste disposal operations which emit solid particle gas vapors or malodorous substance. 3) Reduction of heat load demands for processing. 4) Utilization of mid-day (12:00 noon to 4:00 p.m.) atmospheric turbulence for boiler lancing or soot blowing.

Table II

AIR POLLUTION EPISODE: *WARNING CONDITIONS*

EMISSION REDUCTION PLAN

Part A: Pollution Episode Conditions for Carbon Monoxide or Ozone

For ***Warning Conditions***, resulting from excessive levels of carbon monoxide or ozone, the following measures shall be taken:

1. Operation of motor vehicles carrying fewer than three (3) persons shall be prohibited within designated areas during specified hours. Exceptions from this provision are:
 - A. Public transportation and emergency vehicles
 - B. Commercial vehicles
 - C. Through traffic remaining on Interstate or primary highways.
2. At the discretion of the Agency, operations of all private vehicles within designated areas or entry of vehicles into designated areas may be prohibited for specified periods of time.
3. Public transportation operators shall, in accordance with a pre-planned strategy, provide the maximum possible additional service to minimize the public's inconvenience as a result of No. 1 or No. 2. above.
4. For ozone episodes the following additional measures shall be taken:
 - A. No bulk transfer of gasoline without vapor recovery from 2:00 a.m. to 2:00 p.m.
 - B. No service station pumping of gasoline from 2:00 a.m. to 2:00 p.m.
 - C. No operation of paper coating plants from 2:00 a.m. to 2:00 p.m.
 - D. No architectural painting or auto finishing;
 - E. No venting of dry cleaning solvents from 2:00 a.m. to 2:00 p.m. (except perchloroethylene).
5. Where appropriate for carbon monoxide episodes during the heating season, and where legal authority exists, governmental agencies shall prohibit all use of wood stoves and fireplaces for domestic space heating, except where such devices provide the sole source of heat.

Part B: Pollution Episode Conditions for Particulate Matter

For ***Warning Conditions*** resulting from excessive levels of particulate matter, the following measures shall be taken:

1. There shall be no open burning by any person of any material.
2. The use of incinerators for the disposal of solid or liquid wastes shall be prohibited.
3. Persons operating fuel-burning equipment which requires boiler lancing or soot blowing shall perform such operations only between the hours of 12 noon and 4 p.m.
4. Where legal authority exists, governmental agencies shall prohibit all use of wood stoves and fireplaces for domestic space heating, except where such devices provide the sole source of heat.

5. Persons responsible for the operation of any source of air contaminants listed below shall take all required actions for the **Warning Level**, in accordance with a preplanned strategy:

Source of Contamination	Control Actions — Warning Level
<p>A. Coal, oil, or wood-fired electric power generating facilities.</p>	<ol style="list-style-type: none"> 1) Maximum utilization of fuels having lowest ash and sulfur content. 2) Utilization of mid-day (12:00 noon to 4:00 p.m.) atmospheric turbulence for boiler lancing and soot blowing. 3) Diverting electric power generation to facilities outside of Warning Area. 4) Prepare to use a plan of action if an Emergency Condition develops. 5) Cease operation of facilities not related to safety or protection of equipment or delivery of priority power.
<p>B. Coal, oil, or wood-fired process steam generating facilities.</p>	<ol style="list-style-type: none"> 1) Maximum utilization of fuels having the lowest ash and sulfur content. 2) Utilization of mid-day (12: 00 noon to 4:00 p.m.) atmospheric turbulence for boiler lancing and soot blowing. 3) Prepare to use a plan of action if an Emergency Condition develops. 4) Cease operation of facilities not related to safety or protection of equipment or delivery of priority power.
<p>C. Manufacturing industries which require considerable lead time for shut-down including the following classifications:</p> <ul style="list-style-type: none"> - Petroleum Refining - Chemical Industries - Primary Metals Industries - Glass Industries - Paper and Allied Products 	<ol style="list-style-type: none"> 1) Reduction of air contaminants from manufacturing operations by, if necessary, assuming reasonable economic hardships by postponing production and allied operations. 2) Reduction by deferring trade waste disposal operations which emit solid particles, gases, vapors or malodorous substances. 3) Maximum reduction of heat load demands for processing. 4) Utilization of mid-day (12:00 noon to 4:00 p.m.) atmospheric turbulence of boiler lancing or soot blowing.

Source of Contamination	Control Actions — <i>Warning Level</i>
D. Manufacturing industries which require relatively short time for shut-down.	<ol style="list-style-type: none"><li data-bbox="768 352 1417 478">1) Elimination of air contaminants from manufacturing operations by ceasing, allied operations to the extent possible without causing injury to persons or damage to equipment.<li data-bbox="768 499 1417 594">2) Elimination of air contaminants from trade waste disposal processes which emit solid particles, gases, vapors, or malodorous substances.<li data-bbox="768 615 1417 646">3) Reduction of heat load demands for processing.<li data-bbox="768 667 1417 762">4) Utilization of mid-day (12 noon to 4 p.m.) atmospheric turbulence for boiler lancing or soot blowing.

Table III

AIR POLLUTION EPISODE: **EMERGENCY CONDITIONS**
EMISSION REDUCTION PLAN

1. There shall be no open burning by any person of any material.
2. The use of incinerators for the disposal of solid or liquid wastes shall be prohibited.
3. All places of employment, commerce, trade, public gatherings, government, industry, business, or manufacture shall immediately cease operation, except the following:
 - A. Police, fire, medical and other emergency services;
 - B. Utility and communication services;
 - C. Governmental functions necessary for civil control and safety;
 - D. Operations necessary to prevent injury to persons or serious damage to equipment or property;
 - E. Food stores, drug stores and operations necessary for their supply;
 - F. Operations necessary for evacuation of persons leaving the area;
 - G. Operations conducted in accordance with an approved preplanned emission reduction plan on file with the Agency.
4. All commercial and manufacturing establishments not included in these rules shall institute such actions as will result in maximum reduction of air contaminants from their operations which emit air contaminants, to the extent possible without causing injury or damage to equipment.
5. The use of motor vehicles is prohibited except for the exempted functions in 3, above.
6. Airports shall be closed to all except emergency air traffic.
7. Where legal authority exists, governmental agencies shall prohibit all use of wood stoves and fireplaces.
8. Any person responsible for the operation of a source of atmospheric contamination listed below shall take all required control actions for this **Emergency Level**.

Source of Contamination	Control Actions — Emergency Level
A. Coal, oil, or wood-fired electric power generating facilities.	1) Maximum utilization of fuels having lowest ash and sulfur content.
	2) Utilization of mid-day (12:00 noon to 4:00 p.m.) atmospheric turbulence for boiler lancing or soot blowing.

Source of Contamination	Control Actions — <i>Emergency Level</i>
	3) Diverting electric power generation to facilities outside of Emergency area. 4) Cease operation of facilities not related to safety or protection of equipment or delivery of priority power.
B. Coal, oil, or wood-fired steam generating facilities.	1) Reducing heat and steam process demands to absolute necessities consistent with preventing equipment damage. 2) Utilization of mid-day (12:00 noon to 4:00 p.m.) atmospheric turbulence for boiler lancing and soot blowing. 3) Taking the action called for in the emergency plan. 4) Cease operation of facilities not related to safety or protection of equipment or delivery of priority power.
C. Manufacturing industries of the following classifications: - Primary Metals Industry - Petroleum Refining Operations - Chemical Industries - Mineral Processing Industries - Paper and Allied Products - Grain Industry - Wood Processing Industry	1) The elimination of air of contaminants from manufacturing operations by ceasing, curtailing, postponing or deferring production and allied operations to the extent possible without causing injury to persons or damage to equipment. 2) Elimination of air contaminants from trade waste disposal processes which emit solid particles, gases, vapors, or malodorous substances. 3) Maximum reduction of heat load demands for processing. 4) Utilization of mid-day (12:00 noon to 4:00 p.m.) atmospheric turbulence for boiler lancing or soot blowing.