



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY

GENERAL

AIR CONTAMINANT DISCHARGE PERMIT

Department of Environmental Quality
Air Quality Division
Air Operations Section
700 NE Multnomah Street, Suite 600
Portland, OR 97232
Telephone: (503) 229-5696

This permit is being issued in accordance with the provisions of ORS 468A.040 and OAR 340-216-0060.

ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY

Signed copy on file with DEQ	2/17/2022
Ali Mirzakhali, Air Quality Division Administrator	Dated

Coffee roasters; facilities and operations that roast 30 or more green tons per year.
SIC 2095, NAICS 31192.

TABLE OF CONTENTS

1.0 PERMIT ASSIGNMENT2
2.0 GENERAL EMISSION STANDARDS AND LIMITS2
3.0 OPERATION AND MAINTENANCE REQUIREMENTS3
4.0 PLANT SITE EMISSION LIMITS4
5.0 COMPLIANCE DEMONSTRATION5
6.0 RECORDKEEPING REQUIREMENTS6
7.0 REPORTING REQUIREMENTS7
8.0 ADMINISTRATIVE REQUIREMENTS9
9.0 FEES11
10.0 GENERAL CONDITIONS AND DISCLAIMERS11
11.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS12
12.0 TABLE 1: OPERATION & MAINTENANCE PLANS.....13

1.0 PERMIT ASSIGNMENT

1.1. Qualifications

The permittee must meet all of the following Conditions in order to qualify for assignment to this General Air Contaminant Discharge Permit (ACDP):

- a. The permittee is performing coffee roasting as described on the cover page of this permit, including supporting activities;
- b. All roasters have a pollution control device installed and operational. The pollution control device may be a direct-flame afterburner or catalytic converter;
- c. The permittee roasts no more than 7,087 green tons of product in any year;
- d. A Simple or Standard ACDP is not required for the source; and
- e. The source is not having ongoing, recurring or serious compliance problems.

1.2. Assignment

DEQ will assign qualifying permittees to this permit that have and maintain a good record of compliance with DEQ's Air Quality regulations and that DEQ determines would be appropriately regulated by a General ACDP. DEQ may rescind assignment if the permittee no longer meets the qualifications in Condition 1.1 above, conditions of OAR 340-216-0060, or the Conditions of this permit.

1.3. Permitted Activities

Until this permit expires, is modified, or is revoked, the permittee is allowed to discharge air contaminants from processes and activities directly related to or associated with the air contaminant source(s) listed on the first page of this permit in addition to any categorically insignificant activities, as defined in OAR 340-200-0020, at the source. Discharge of air contaminants from any other equipment or activity not identified herein is not authorized by this permit.

1.4. Relation to Local Land Use Laws

This permit is not valid in Lane County, or at any location where the operation of the permittee's processes, activities, and insignificant activities would be in violation of any local land use or zoning laws. For operation in Lane County, contact Lane Regional Air Protection Agency for any necessary permits at (541) 736-1056. The permittee must obtain local land use approvals as, or where, applicable before operating this facility at any location.

2.0 GENERAL EMISSION STANDARDS AND LIMITS

2.1. Visible Emissions

The permittee must comply with the following visible emission limits:

- a. Visible emissions must not equal or exceed 20% opacity;
- b. The visible emissions limitation in this condition is based upon a six-minute block average of 24 consecutive observations recorded at 15-second intervals as specified in OAR 340-208-0110(2); and
- c. The visible emission standard in this condition does not apply to fugitive emissions from the source.

2.2. Fugitive Emissions

The permittee must comply with the following: [OAR 340-208-0210]

- a. The permittee must take reasonable precautions to prevent particulate matter from becoming airborne from all site operations from which it may be generated. Such

reasonable precautions include, but are not limited to:

- i. Controlling vehicle speeds on unpaved roads;
 - ii. Application of water or other suitable chemicals on unpaved roads, material stockpiles, and other surfaces which can create airborne particulate;
 - iii. Full or partial enclosure of material stockpiles in cases where application of water or other suitable chemicals are not sufficient to prevent particulate matter from becoming airborne;
 - iv. Covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne;
 - v. The prompt removal from paved street of earth or other material that may become airborne;
 - vi. Alternative precautions approved by DEQ.
- b. The permittee must not allow visible fugitive particulate emissions to leave the permittee's property for a period or periods totaling more than 18 seconds in a six-minute period.
 - c. Compliance with the fugitive emissions standard in Condition 2.2b is determined by EPA Method 22 at the downwind property boundary.
 - d. If requested by DEQ, the permittee must develop and implement a fugitive emission control plan to prevent any visible emissions from leaving the property of a source for more than 18 seconds in a six-minute period as determined by EPA Method 22.

2.3. Particulate Matter Fallout

The permittee must not cause or permit the deposition of any particulate matter larger than 250 microns in size at sufficient duration or quantity, as to create an observable deposition upon the real property of another person.

2.4. Nuisance and Odors

The permittee must comply with the following nuisance and nuisance odor requirements, as applicable:

- a. The permittee must not cause or allow the emission of odorous or other emissions so as to create nuisance conditions off the permittee's property. Nuisance conditions will be verified by DEQ personnel.
- b. When operating in Clackamas, Columbia, Multnomah, and Washington Counties, control apparatus and equipment, using the highest and best practicable treatment currently available, must be installed and operated to reduce to a minimum odor-bearing gases or odor-bearing particulate matter emitted into the atmosphere.

3.0 OPERATION AND MAINTENANCE REQUIREMENTS

3.1. Air Pollution Control Devices

The permittee must have a direct-flame afterburner or catalytic converter installed on all roasters and comply with the following:

- a. Operate and maintain all air pollution control devices and emission reduction processes at the highest reasonable efficiency and effectiveness to minimize emissions;
- b. Air pollution control devices and components must be in operation and functioning properly at all times when the associated roaster is operating. If the associated pollution control device malfunctions during a roast, the permittee may finish the in-process roast but must have the pollution control device repaired or replaced prior to beginning another roast with the affected unit; and
- c. Operate and maintain all pollution control devices in accordance with manufacturer's

written instructions.

3.2. Afterburner Operation

Permittees that use a direct-flame afterburner must comply with the following:

- a. Gas effluents from process afterburners must be maintained at a temperature of at least 1,400°F for at least a 0.5-second residence time. The permittee may request a lower afterburner temperature be allowed if manufacturer documentation requires or recommends a lower temperature, not to be below 1,250°F. As proof of compliance at a lower temperature than 1,400°F, the permittee must either conduct a source test in accordance with OAR 340-212-0120 through 340-212-0140 and submit to DEQ results from the test that demonstrate compliance with 95% control efficiency, or submit to DEQ results of testing performed on a coffee roaster afterburner that DEQ agrees is comparable to the permittee's coffee roaster afterburner;
- b. The permittee must maintain and operate a continuous monitoring system for final combustion chamber temperature; and
- c. The permittee must install and operate the monitoring system in accordance with the manufacturer's instructions. The permittee must calibrate the continuous temperature monitor and all associated equipment at least once per calendar year.

3.3. Operations & Maintenance Plan

While operating in the Medford-Ashland AQMA, the permittee must prepare and implement an operation and maintenance (O&M) plan in accordance with OAR 340-240-0190, see Condition 12, Table 1.

3.4. Repair and Replacement of Equipment

The permittee must timely repair or replace equipment or components that are worn, defective, ineffective, or otherwise resulting in less efficient capture or control of air emissions.

4.0 PLANT SITE EMISSION LIMITS

4.1. Plant Site Emission Limits (PSEL)

The permittee must not allow plant site emissions to exceed the following:

Pollutant	Limit	Units
PM	24	tons per year
PM ₁₀	14	tons per year
PM _{2.5}	9	tons per year
S02	39	tons per year
NO _x	39	tons per year
CO	99	tons per year
VOC	39	tons per year

4.2. PM10 PSEL for Medford-Ashland AQMA

For sources operating in the Medford-Ashland AQMA, the permittee must not allow the plant site emissions of PM10 to exceed the following:

Pollutant	Limit	Units
PM10	4.5	tons per year
	49	pounds per day

4.3. Annual Period

The annual plant site emissions limits apply to each 12-consecutive calendar month period.

5.0 COMPLIANCE DEMONSTRATION

5.1. PSEL Compliance Monitoring

Compliance with the PSEL is determined for each 12-consecutive calendar month period based on the following calculation for each pollutant:

$$E = \frac{\sum(EF \times P)}{2000}$$

Where,

- E = pollutant emissions (tons/yr);
 EF = pollutant emission factor per activity and controls (see Condition 5.2);
 P = process production (tons of coffee destoned or roasted);

5.2. Emission Factors

The permittee must use the default emission factors provided below for calculating pollutant emissions unless alternative emission factors are approved by DEQ. The permittee may request or DEQ may require using alternative emission factors provided they are based on actual test data or other documentation (e.g., AP-42 compilation of emission factors) that has been reviewed and approved by DEQ.

Emissions Device or Activity ¹	Control Device	Pollutant	Emission Factor ²	Emission Factor Units
Destoning	None	PM/PM ₁₀ /PM _{2.5}	1.4	lb/ton of coffee destoned
Roasting	None	PM	4.2	lb/ton of coffee roasted
	Catalytic Converter		0.21	
	Afterburner		1.68	
	None	PM ₁₀ /PM _{2.5}	0.6	lb/ton of coffee roasted
	Catalytic Converter		0.03	
	Afterburner		0.24	
Roasting	None	VOC	2.6	lb/ton of coffee roasted
	Catalytic Converter		0.13	

Emissions Device or Activity ¹	Control Device	Pollutant	Emission Factor ²	Emission Factor Units
	Afterburner		0.13	
Natural Gas Combustion	None	PM/PM ₁₀ /PM _{2.5}	2.5	lb/10 ⁶ cubic feet of natural gas burned (lb/MMCF)
	None	SO ₂	1.7	
	None	NO _x	100	
	None	CO	84	
	None	VOC	5.5	
Propane Combustion	None	PM/PM ₁₀ /PM _{2.5}	0.7	lb/10 ³ gallons burned (lb/1,000 gallons)
	None	SO ₂	0.10S ³	
	None	NO _x	13	
	None	CO	7.5	
	None	VOC	1.0	

¹For any other fuels used in the roasting process that are not listed on the table, the permittee must contact DEQ for appropriate emission factors.

²Control device efficiency for catalytic converter and direct-flame afterburner are as follows: catalytic converter control efficiency of PM/PM₁₀/PM_{2.5} and VOC is 95%; Direct-flame afterburner control efficiency of PM/PM₁₀/PM_{2.5} is 60% and VOC is 95%.

³S equals the sulfur content expressed in gr/100 ft³ gas vapor. For example, if the propane sulfur content is 0.18 gr/100 ft³, the emission factor would be (0.09 x 0.18) = 0.016 lb of SO₂/103 gal propane burned.

6.0 RECORDKEEPING REQUIREMENTS

6.1. Monitoring Requirements

The permittee must monitor and maintain the following records related to the operation, maintenance, and production of the plant and associated air contaminant control devices:

- a. Tons of raw (green) beans roasted during each calendar month and total for the calendar year;
- b. Tons of raw (green) beans destoned during the previous calendar year;
- c. Amount of natural gas, and unit of measurement, used during each calendar month and total for the calendar year;
- d. For afterburner-equipped roasters, the continuous temperature in the final combustion chamber in degrees Fahrenheit.
- e. If any fuels other than natural gas are used onsite, records must include:
 - i. Identification of each of the other fuel(s) used onsite;
 - ii. Amount of each fuel used on site during each calendar month with appropriate unit(s) of measurement (e.g., gallons, cubic feet, etc.).

6.2. Operation and Maintenance

The permittee must maintain all records associated with the operations and maintenance of each roasting unit and associated control device, including but not limited to the following:

- a. The continuous temperature monitoring system in the secondary chamber of the afterburner, including, but not limited to:
 - i. Original data sheets and charts; and
 - ii. Calibration data;
- b. All instances of repairs, adjustments, and replacements related to the operation and maintenance of each roaster and the associated air contaminant control device(s).

6.3. Complaint Log

The permittee must maintain a log of all complaints received that specifically refer to air pollution, odor, or nuisance concerns associated with the permitted facility. The permittee must investigate the condition within 24 hours, if possible.

The log must include at least the following for each complaint or concern received:

- a. The date the complaint was received;
- b. The date and time the complaint states the condition was present;
- c. A description of the complaint;
- d. The location of the complainant or receptor relative to the plant site;
- e. The status of plant operations and activities during the complaint's stated time of pollution or odor condition;
- f. A description of the permittee's actions to investigate the validity of the complaint; and
- g. A description of any actions taken in response to the complaint investigation.

6.4. Excess Emissions

The permittee must maintain records of excess emissions as defined in OAR 340-214-0300 through 340-214-0340 (recorded on occurrence). Typically, excess emissions are caused by process upsets, startups, shutdowns, or scheduled maintenance. In many cases, excess emissions are evident when visible emissions are greater than 20% opacity for 3 minutes or more in any 60-minute period.

6.5. Retention of Records

Unless otherwise specified, the permittee must retain all records for a period of at least five (5) years from the date of each report or record and make them available to DEQ upon request. Records must be retained onsite or otherwise readily available electronically for expeditious review during an on-site inspection.

7.0 REPORTING REQUIREMENTS

7.1. Excess Emissions

The permittee must notify DEQ by telephone or in person of any excess emissions which are of a nature that could endanger public health.

- a. The permittee must provide such notice as soon as possible, but never more than one hour after becoming aware of the problem. Notice must be made to the regional office identified in Condition 8.3.
- b. If the excess emissions occur during non-business hours, the permittee must notify DEQ by calling the Oregon Emergency Response System (OERS). The current number is 1-800-452-0311.
- c. The permittee must also submit follow-up reports when required by DEQ.

7.2. Annual Report

The permittee must submit to DEQ by **February 15** of each year this permit is in effect, two (2) copies of the following information for the preceding calendar year:

- a. Operating parameters:
 - i. Amount of raw (green) beans roasted (tons per calendar year);
 - ii. Amount of beans destoned (tons per calendar year);
 - iii. Highest amount of raw (green) beans roasted within a month;
 - iv. Amount of natural gas used per calendar year (must specify therms, cubic feet, or other unit)
 - v. Highest amount of natural gas used within a month (must specify therms, cubic feet, or other unit)
 - vi. If the permittee uses any fuels other than natural gas, the fuel information identified in Condition 6.1e.
- b. Records of all planned and unplanned excess emissions events.
- c. A summary of complaints received relating to air quality concerns and the permittee's response or follow-up action(s);
- d. List permanent changes made in plant process, production levels, and pollution control equipment which affected air contaminant emissions.
- e. List major maintenance performed on pollution control equipment.
- f. List the current plant site contact. Provide name, title, phone number and email address.

7.3. Initial Startup Notice

The permittee must notify DEQ in writing of the date a new facility is started up. The notification must be submitted no later than seven (7) days after startup.

7.4. Notice of Change of Ownership or Company Name

The permittee must notify DEQ in writing using a DEQ "Transfer Application Form" **within 60 days** after any of the following:

- a. Legal change of the name of the company as registered with the Corporations Division of the State of Oregon;
- b. Sale or exchange of the activity or facility.

7.5. Construction or Modification Notices

The permittee must notify DEQ in writing using a DEQ "Notice of Intent to Construct Form," or other permit application form, and obtain approval in accordance with OAR 340-210-0205 through 340-210-0250 before:

- a. Constructing, installing, or establishing a new stationary source that will cause an increase in any regulated pollutant emissions;
- b. Making any physical change or change in operation of an existing stationary source that will cause an increase, on an hourly basis at full production, in any regulated pollutant emissions; or
- c. Constructing or modifying any air pollution control equipment.

7.6. Where to Send Reports and Notices

Reports, with the permit number prominently displayed, must be sent to the Permit Coordinator for the region where the source is located as identified in Condition 8.3, unless otherwise specified.

8.0 ADMINISTRATIVE REQUIREMENTS

8.1. Employee Commute Options

Sources located inside the Portland Air Quality Maintenance Area (AQMA) with more than 100 employees at a work site must comply with the Employee Commute Options Program requirements located in OAR 340-242-0020 through 340-242-0390.

For forms (Fact Sheet, Registration, or Survey Guidance documents) or questions regarding ECO, please contact the ECO program directly at 503-229-6154 or ECO@deq.state.or.us.

Additional information is available from DEQ's website for the ECO program located here: <https://www.oregon.gov/deq/air/programs/Pages/ECO.aspx>

8.2. Reassignment to the General ACDP

A permittee that wishes to continue assignment to this General ACDP must submit to DEQ an application for reassignment as follows:

- a. The application must be received by DEQ within 30 days prior to the expiration date listed on this permit;
- b. The application must be sent to the appropriate regional office identified in Condition 8.3; and
- c. The permittee may submit an application for either a Simple or Standard ACDP at any time, but the permittee must continue to comply with the General ACDP until DEQ takes final action on the Simple or Standard ACDP application.

8.3. Permit Coordinator Addresses

All reports, notices, and applications should be directed to the Permit Coordinator for the area where the source is located unless otherwise specified. Please ask for the air quality permit coordinator when calling the general office numbers listed below. The Permit Coordinator addresses are as follows:

Counties	Permit Coordinator Address and Telephone
Statewide	Once DEQ's online portal Environmental Data Management System, 'Your DEQ Online' is available for this permit, the permittee will be directed to submit any reports, notices, applications, or fees required by this permit within the online system or through the addresses and information provided at that time. Until the online portal is available for this permit, the permittee must use the addresses and information identified below.
Clackamas, Clatsop, Columbia, Multnomah, Tillamook, and Washington	Department of Environmental Quality Northwest Region 700 NE Multnomah St., Suite 600 Portland, OR 97232-4100 Telephone: (503) 229-5696 NWRaqPermits@deq.state.or.us

Counties	Permit Coordinator Address and Telephone
Benton, Coos, Curry, Douglas, Jackson, Josephine, Lincoln, Linn, Marion, Polk, and Yamhill	Department of Environmental Quality Western Region 4026 Fairview Industrial Drive Salem, OR 97302 Telephone: (503) 378-8240 WRaqPermits@deq.state.or.us
Baker, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, Wheeler	Department of Environmental Quality Eastern Region 475 NE Bellevue, Suite 110 Bend, OR 97701 Telephone: (541) 388-6146 ERaqPermits@deq.state.or.us

8.4. DEQ Contacts

Information about air quality permits and DEQ's regulations may be obtained from the DEQ web page: <http://www.oregon.gov/DEQ/AQ/>. All inquiries about this permit should be directed to the regional office for the area where the source is located. DEQ's regional offices are as follows:

Counties	Office Address and Telephone
Clackamas, Clatsop, Columbia, Multnomah, Tillamook, and Washington	Department of Environmental Quality Northwest Region 700 NE Multnomah St., Suite 600 Portland, OR 97232-4100 Telephone: (503) 229-5696
Benton, Lincoln, Linn, Marion, Polk, and Yamhill	Department of Environmental Quality Salem Office 4026 Fairview Industrial Drive Salem, OR 97302 Telephone: (503) 378-8240
Coos, Curry, and Western Douglas	Department of Environmental Quality Coos Bay Office 381 N Second Street Coos Bay, OR 97420 Telephone: (541) 269-2721
Eastern Douglas, Jackson, and Josephine	Department of Environmental Quality Medford Office 221 Stewart Avenue, Suite 201 Medford, OR 97501 Telephone: (541) 776-6010
Crook, Deschutes, Harney, Hood River, Jefferson, Sherman, Wasco, and Wheeler	Department of Environmental Quality Bend Office 475 NE Bellevue, Suite 110 Bend, OR 97701 Telephone: (541) 388-6146

Counties	Office Address and Telephone
Baker, Gilliam, Grant, Malheur, Morrow, Umatilla, Union, and Wallowa	Department of Environmental Quality Pendleton Office 800 SE Emigrant Avenue, Suite 330 Pendleton, OR 97801 Telephone: (541) 276-4063
Klamath and Lake	Department of Environmental Quality Klamath Falls Office 803 Main Street, Suite #201 Klamath Falls, OR 97604-9998 541-273-7002

9.0 FEES

9.1. Annual Compliance Fee

The annual fees specified in OAR 340-216-8020, Table 2, are due on or by **December 1** of each year this permit is in effect. Invoices indicating the amount, as determined by DEQ regulations, will be mailed prior to the above date. **Late fees in accordance with Part 5 of the table will be assessed as appropriate.**

9.2. Change of Ownership or Company Name Fee

The Non-Technical Permit Modification specific activity fee specified in OAR 340- 216-8020, Table 2, Part 4 is due with an application for changing the ownership or the name of the company of a source assigned to this permit. Forms that require fees must be sent together to the address in Condition 9.3.

9.3. Where to Submit Fees

Fees must be submitted to:

Department of Environmental Quality
Financial Services – Revenue Section
700 NE Multnomah St. Suite 600
Portland, OR 97232-4100

10.0 GENERAL CONDITIONS AND DISCLAIMERS

10.1. Other Regulations

In addition to the specific requirements listed in this permit, the permittee must comply with all other applicable legal requirements enforceable by DEQ.

10.2. Conflicting Conditions

In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply.

10.3. Masking of Emissions

The permittee must not cause or permit the installation of any device or use any means designed to mask the emissions of an air contaminant that causes or is likely to cause detriment to health, safety, or welfare of any person or otherwise violate any other regulation or requirement.

10.4. DEQ Access

The permittee must allow DEQ's representatives access to the plant site and pertinent records at all reasonable times for the purposes of performing inspections, surveys, collecting samples,

obtaining data, reviewing and copying air contaminant emissions discharge records and conducting all necessary functions related to this permit in accordance with ORS 468.095.

10.5. Permit Availability

The permittee must have a copy of the permit available at the facility at all times.

10.6. Open Burning

The permittee may not conduct any open burning except as allowed by OAR 340 Division 264.

10.7. Asbestos

The permittee must comply with the asbestos abatement requirements in OAR 340, Division 248 for all activities involving asbestos-containing materials, including, but not limit to, demolition, renovation, repair, construction, and maintenance.

10.8. Property Rights

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.

10.9. Termination, Revocation, Rescission, or Modification

DEQ may modify or revoke this permit as authorized under OAR chapter 340, division 216.

11.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

ACDP	Air Contaminant Discharge Permit	NA	not applicable
AQMA	Air Quality Maintenance Area	NESHAP	National Emissions Standards for Hazardous Air Pollutants
calendar year	The 12-month period beginning January 1st and ending December 31 st	NO _x	nitrogen oxides
CAO	Cleaner Air Oregon	NSPS	New Source Performance Standard
CFR	Code of Federal Regulations	OAR	Oregon Administrative Rules
CO	carbon monoxide	ORS	Oregon Revised Statutes
DEQ	Oregon Department of Environmental Quality	O&M	operation and maintenance
dscf	dry standard cubic foot	PCD	pollution control device
EPA	US Environmental Protection Agency	PM	particulate matter
FCAA	Federal Clean Air Act	PM ₁₀	particulate matter less than 10 microns in size
Gal	gallon(s)	PM _{2.5}	particulate matter less than 2.5 microns in size
GHG	greenhouse gas	ppm	part per million
gr/dscf	grains per dry standard cubic foot	PSEL	Plant Site Emission Limit
HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040	PTE	Potential to Emit
lb	pound(s)	scf	standard cubic foot
MMBtu	million British thermal units	SER	Significant Emission Rate
		SIC	Standard Industrial Code
		SO ₂	sulfur dioxide

Special Control Area TACT	as defined in OAR 340-204-0070 Typically Achievable Control Technology	VE VOC year	visible emissions volatile organic compound A period consisting of any 12-consecutive calendar months
---------------------------	---	-------------------	---

12.0 TABLE 1: OPERATION & MAINTENANCE PLANS

Operations & Maintenance Plans required pursuant to OAR 340-240-0190 or Condition 3.3:

The purpose of the plan must be to:	Reduce the number of upsets and breakdowns in particulate control equipment.
	Reduce the duration of upsets and downtimes.
	Improve the efficiency of control equipment during normal operations.
The plans must consider and include, but is not limited to:	Personnel training in operation and maintenance.
	Preventative maintenance procedures, schedule and records.
	Logging of the occurrence and duration of all upsets, breakdowns and malfunctions which result in excessive emissions.
	Routine follow-up evaluation of upsets to identify the cause of the problem and changes needed to prevent a recurrence.
	Inspection of internal wear points of pollution control equipment during scheduled shutdowns.
Inventory of key spare parts.	

AQGP-016, coffee roasters

cac/cd/msf 07/25/01; ka/fm/wk 07/15/11; drd 6/23/21;