



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

07/22/99

CERTIFIED MAIL

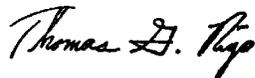
RE: Proposed Title V Chapter 3745-77 permit
01-25-04-0554
ANHEUSER-BUSCH COLUMBUS BREWERY

Attn: Genevieve Damico AR-18J
United States Environmental Protection Agency
Region V
77 West Jackson Blvd.
Chicago, IL 60604-3590

Dear Ms. Damico:

The proposed issuance of the Title V permit for ANHEUSER-BUSCH COLUMBUS BREWERY, has been created in Ohio EPA's State Air Resources System (STARS) on 07/22/99, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and  Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's electronic notification of this proposed action. Please contact Mike Ahern, DAPC Permit Management Unit supervisor at (614) 644-3631 before the end of the forty-five (45) day review period if you wish to object to the proposed permit.

Very truly yours,



Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: Central District Office
Becky Castle



Ohio EPA

State of Ohio Environmental Protection Agency

TITLE V PERMIT

Date: 07/22/99

PROPOSED

Effective Date:

Expiration Date:

This document constitutes issuance to:

ANHEUSER-BUSCH COLUMBUS BREWERY
3232 Alum Creek Drive
PO Box 1049
Columbus, OH 43216-1049

of a Title V permit for Facility ID: 01-25-04-0554

Emissions Unit ID (Company ID)/
Emissions Unit Activity Description:

B001 (#1 BOILER)
#1 BOILER (28-110-1)

B002 (#2 BOILER)
#2 BOILER (28-110-2)

B003 (#3 BOILER)
#3 BOILER (28-110-3)

B004 (#4 BOILER)
#4 BOILER (28-110-4)

P017 (#1 GRAIN DRYER)
#1 GRAIN DRYER (33-119-3)

P018 (#2 GRAIN DRYER)
#2 GRAIN DRYER (33-119-4)

P019 (#3 GRAIN DRYER)
#3 GRAIN DRYER (33-119-17)

P068 (25 BOTTLE FILLER)
LINE 25 BOTTLE FILLER (24-25-070)

P069 (45 CAN FILLER)
LINE 45 CAN FILLER (25-45-060)

P070 (50 CAN FILLER)

LINE 50 CAN FILLER (25-506)

P071 (60 CAN FILLER)
LINE 60 CAN FILLER (25-606)

P072 (80 BOTTLE FILLER)
LINE 80 BOTTLE FILLER (24-807)

P073 (85 BOTTLE FILLER)
LINE 85 BOTTLE FILLER (24-85-070)

P074 (70 BOTTLE FILLER)
LINE 70 BOTTLE FILLER (24-707)

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Central District Office
(614) 728-3778

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 below if no deviations occurred during the quarter.
 - iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting

requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
 - d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:
 - i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio

EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

16. Off Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to

the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

B. State Only Enforceable Section

1. Permit to Install Requirement

Prior to the “installation” or “modification” of any “air contaminant source,” as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

1. Risk Management Plans:
If the permittee is required to develop and register a risk management plan pursuant to section 112 (r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.
2. 40 CFR Parts 82.154, 82.156, 82.166 (i),(j),(k), (m)
The facility shall comply with the requirements of the above rules. The facility shall keep service records of all units containing CFC compounds on file for the most recent three year period.

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

SOURCE ID	SOURCE DESCRIPTION
J001	Alcohol Loadout
P001	Grain Building Dust Collection-1
P002	Grain Building Dust Collection-2
P003	Grain Conveying-1
P004	Grain Conveying-2
P006	Vacuum Cleaning-1
P007	Vacuum Cleaning-2
P008	Grain Unloading-1
P009	Grain Unloading-2
P010	Dust Conveying
P012	Cooling Filters
P013	Finished Products Conveying
P015	Centrifuges
P016	Evaporator System
P024	Truck Loading Stations
P025	Diatomaceous Earth Storage Tank-1
P026	Diatomaceous Earth Storage Tank-2
P030	Brew Kettle-1
P031	Brew Kettle-2
P032	Strainmaster-1
P033	Brew Holding Kettle-1
P034	Mash Cooker-4
P035	Hot Wort Tank-1
P036	Mash Cooker-1
P037	Mash Cooker-2
P038	Mash Cooker-3
P039	Mash Cooker-5
P040	Wort Aerator-1

B. State Only Enforceable Section (continued)

P041	Wort Aerator-2
P042	Wort Aerator-3
P043	Wort Aerator-4
P044	O/S Chip Washers
P045	N/S Chip Washers
P046	Strainmaster-2
P048	Brew Holding Kettle-3
P049	Reflux Condenser
P050	Degasser Condenser
P051	ACP Mix Tank
P052	Evaporator with Condenser
P053	Corn Grits Transfer System
P054	Hops Strainer-1
P055	Hops Strainer-2
P056	Brew Holding Kettle-2
P059	Cardboard Baler-N
P060	Cardboard Baler-S
P061	85 Bottle Washer
P062	85 Pasteurizer
P063	25 Bottle Washer
P064	95 Keg Washer

B. State Only Enforceable Section (continued)

T001	Fuel Oil Storage Tank-1
T002	Fuel Oil Storage Tank-2
T003	Fuel Oil Storage Tank-3
T006	Wet Spent Grain Tank-1
T007	Wet Spent Grain Tank-2
T008	Alcohol Day Tank-1
T009	Alcohol Day Tank-2
T010	Alcohol Storage Tank-1
T011	Alcohol Storage Tank-2
T014	Alcohol Surge Tank
T017	Evaporator Feed Tank-1
T018	Centrifuge Feed Tank
T019	Hot Wort Tank-3
T020	Evaporator Feed Tank-2
T021	Hot Wort Tank-2
Z002	25 Pasteurizer
Z003	40-45 Pasteurizer
Z004	50 Pasteurizer
Z005	60 Pasteurizer
Z006	70 Pasteurizer
Z007	80 Pasteurizer
Z008	Parts Cleaner-1
Z009	Parts Cleaner-2
Z010	Parts Cleaner-3
Z011	Parts Cleaner-4
Z012	Diatomaceous Dumpster
Z013	Waste Beer Sump
Z014	Chips Dumpster
Z023	Label Adhesives

B. State Only Enforceable Section (continued)

Z024	Hot Glue Melt
Z027	Bottle and Can Crusher
Z028	General Painting
Z029	CO2 Regeneration
Z030	Video Jet Inking
Z031	Finishing Tanks
Z032	Alpha Fermentation Tanks
Z033	Chips Fermentations Tanks
Z034	95 Keg Filler
Z037	Alpha Drop Receiver
Z040	Cold Wort Settler
Z044	Krausen Hold Tank
Z048	Schoene Receivers
Z049	Schoene Tanks
Z050	Spent D.E. Filter
Z051	Spent D.E. Slurry Tank
Z052	Spent Yeast Tanks
Z053	Wet Spent Grain Loadout Tank
Z054	Yeast Brinks
Z055	Waste Beer Feed Tank
Z057	Packaging Line Lubricants
Z058	Diesel Fire Pump

2. Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and control requirements contained within a permit to install for the emissions unit.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #1 BOILER (B001)
Activity Description: #1 BOILER (28-110-1)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Boiler No.1 - 113.3 MMBtu/hr natural gas and no.6 residual oil-fired boiler.	OAC rule 3745-17-10(C)(1)	Particulate matter (PM) emissions from emissions units B001, B002, B003, and B004 shall not exceed 0.127 lb per million Btu (MMBtu) of actual heat input when burning no.6 residual oil.
	40 CFR 52.1881(b)(27)(ii)	Sulfur dioxide (SO2) emissions from this emissions unit shall not exceed 1.5 lbs/MMBtu of actual heat input.
	OAC rule 3745-17-10(B)(1)	PM emissions from this emissions unit shall not exceed 0.020 lb/MMBtu of actual heat input when burning natural gas.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the no.6 residual oil (fuel oil) burned in this emissions unit shall meet, on an as-received basis, a sulfur content (percent) which is sufficient to comply with the allowable SO₂ emission limitation of 1.5 lbs/MMBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect or require the fuel oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in emissions units B001 through B004. The permittee shall perform or require the supplier to perform the analyses for sulfur content (percent) and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternatively, equivalent methods may be used upon written approval by the Ohio EPA, Central District Office.
2. For each shipment of fuel oil received for burning in emissions units B001 through B004, the permittee shall maintain records of the following:
 - a. the total quantity of fuel oil received in each shipment (gallons);
 - b. the permittee's or fuel oil supplier's analyses of the heat content (Btu/gallon) of the fuel oil received in each shipment;
 - c. the permittee's or fuel oil supplier's analyses of the sulfur content (percent) of the fuel oil received in each shipment;
 - d. the calculated sulfur dioxide emission rate (lbs of SO₂/MMBtu of actual heat input) of the fuel oil received in each shipment (see section A.V.4);
 - e. the calculated particulate matter emission rate (lbs of PM/MMBtu of actual heat input) of the fuel oil received in each shipment(see section A.V.2); and
 - f. monthly calculations of the weighted average sulfur content, and heat content of the fuel oil received during each calendar month, and the total quantity (gallons) of fuel oil burned in emissions units B001 through B004 during the month.

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**

Facility ID: **01-25-04-0554**

Emissions Unit: **#1 BOILER (B001)**

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall perform weekly checks, when this emissions unit is in operation and burning fuel oil, and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operation;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to eliminate visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports which contain the fuel oil supplier's or permittee's analyses for each shipment of fuel oil received for burning in this emissions unit. The analyses shall document the quantity, heat content, and sulfur content (percent) of each shipment of fuel oil received. These quarterly reports shall be submitted to the Ohio EPA, Central District Office (CDO) by February 15, May 15, August 15, and November 15 of each year and shall cover the fuel oil shipments received during the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).
2. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the PM and SO₂ emission limitations (lb/MMBtu of actual heat input) for emissions units B001 through B004 listed in Section A.I.1 of this permit, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).
3. The permittee shall submit quarterly written reports which:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. describe any corrective actions taken to eliminate the visible particulate emissions.

These quarterly reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall cover the cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**

Facility ID: **01-25-04-0554**

Emissions Unit: **#1 BOILER (B001)**

V. Testing Requirements

1. Compliance with the emission limitation(s) outlined in Section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method: Compliance with the visible emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, as outlined in OAC rule 3745-17-03(B)(1).

2. Emission Limitation: 0.127 lb of PM per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance shall be demonstrated by using the following equation from AP-42, Table 1.3-1, 5th Edition:

$$\text{PM Emission Rate (lbs/MMBtu)} = [(9.19 * (S) + 3.22) \text{ lbs PM}/1000 \text{ gal}]/H$$

where, S is the actual weight % sulfur in the fuel, and H is the actual fuel oil heat content (MMBtu/1000 gal). S and H are determined from permittee's or fuel oil supplier's analyses (see Section A.III.1).

3. Emission Limitation: 0.020 lb of PM per MMBtu of actual heat input when burning natural gas.

Applicable Compliance Method: Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (113,300 cu.ft/hr) by the AP-42, Table 1.4-2, 5th Edition, emission factor for natural gas combustion (3.0 lbs of PM/MM cubic feet), and dividing by the maximum hourly heat input capacity of the emissions unit (113.3 MMBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

4. Emission Limitation: 1.5 lbs of SO₂ per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance with the SO₂ emission limitation shall be demonstrated by using the following equation from AP-42, Table 1.3-1, 5th Edition:

$$\text{SO}_2 \text{ Emission Rate (lbs/MMBtu)} = [(157 * (S) \text{ lbs SO}_2/1000 \text{ gal})]/H$$

where, S is the actual weight % sulfur in the fuel, and H is the actual fuel oil heat content (MMBtu/1000 gal). S and H are determined from permittee's or fuel oil supplier's analyses (see Section A.III.1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Boiler No.1 - 113.3 MMBtu/hr natural gas and no.6 residual oil-fired boiler.	OAC rule 3745-18-31(T)	SO2 emissions shall not exceed 1.5 lbs/MMBtu of actual heat input.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation: 1.5 lbs of SO2 per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance with this limitation shall be determined based upon the records required pursuant to Section A.III.2, and calculated pursuant to Section A.V.4.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #2 BOILER (B002)
Activity Description: #2 BOILER (28-110-2)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Boiler No.2 - 113.3 MMBtu/hr natural gas and no.6 residual oil-fired boiler.	OAC rule 3745-17-10(C)(1)	Particulate matter (PM) emissions from emissions units B001, B002, B003, and B004 shall not exceed 0.127 lb per million Btu (MMBtu) of actual heat input when burning no.6 residual oil.
	40 CFR 52.1881(b)(27)(ii)	Sulfur dioxide (SO ₂) emissions from this emissions unit shall not exceed 1.5 lbs/MMBtu of actual heat input.
	OAC rule 3745-17-10(B)(1)	PM emissions from this emissions unit shall not exceed 0.020 lb/MMBtu of actual heat input when burning natural gas.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the no.6 residual oil (fuel oil) burned in this emissions unit shall meet, on an as-received basis, a sulfur content (percent) which is sufficient to comply with the allowable SO₂ emission limitation of 1.5 lbs/MMBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect or require the fuel oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in emissions units B001 through B004. The permittee shall perform or require the supplier to perform the analyses for sulfur content (percent) and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternatively, equivalent methods may be used upon written approval by the Ohio EPA, Central District Office.
2. For each shipment of fuel oil received for burning in emissions units B001 through B004, the permittee shall maintain records of the following:
 - a. the total quantity of fuel oil received in each shipment (gallons);
 - b. the permittee's or fuel oil supplier's analyses of the heat content (Btu/gallon) of the fuel oil received in each shipment;
 - c. the permittee's or fuel oil supplier's analyses of the sulfur content (percent) of the fuel oil received in each shipment;
 - d. the calculated sulfur dioxide emission rate (lbs of SO₂/MMBtu of actual heat input) of the fuel oil received in each shipment;
 - e. the calculated particulate matter emission rate (lbs of PM/MMBtu of actual heat input) of the fuel oil received in each shipment (see section A.V.2); and
 - f. monthly calculations of the weighted average sulfur content, and heat content of the fuel oil received during each calendar month, and the total quantity (gallons) of fuel oil burned in emissions units B001 through B004 during the month.

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall perform weekly checks, when this emissions unit is in operation and burning fuel oil, and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operation;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to eliminate visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports which contain the fuel oil supplier's or permittee's analyses for each shipment of fuel oil received for burning in this emissions unit. The analyses shall document the quantity, heat content, and sulfur content (percent) of each shipment of fuel oil received. These quarterly reports shall be submitted to the Ohio EPA, Central District Office (CDO) by February 15, May 15, August 15, and November 15 of each year and shall cover the fuel oil shipments received during the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).
2. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the PM and SO₂ emission limitations (lb/MMBtu of actual heat input) for emissions units B001 through B004 listed in Section A.I.1 of this permit, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).
3. The permittee shall submit quarterly written reports which:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. describe any corrective actions taken to eliminate the visible particulate emissions.

These quarterly reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall cover the cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).

V. Testing Requirements

1. Compliance with the emission limitation(s) outlined in Section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method: Compliance with the visible emission limitation shall be determined through visible emission observation performed in accordance with 40 CFR Part 60, Appendix A, Method 9, as outlined in OAC rule 3745-17-03(B)(1).

2. Emission Limitation: 0.127 lb of PM per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance shall be demonstrated by using the following equation from AP-42, Table 1.3-1, 5th Edition:

$$\text{PM Emission Rate (lbs/MMBtu)} = [(9.19*(S) + 3.22) \text{ lbs PM}/1000 \text{ gal}]/H$$

where, S is the actual weight % sulfur in the fuel, and H is the actual fuel oil heat content (MMBtu/1000 gal). S and H are determined from permittee's or fuel oil supplier's analyses (see Section A.III.1).

3. Emission Limitation: 0.020 lb of PM per MMBtu of actual heat input when burning natural gas.

Applicable Compliance Method: Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (113,300 cu.ft/hr) by the average AP-42, Table 1.4-2, 5th Edition, emission factor for natural gas combustion (3.0 lbs of PM/MM cubic feet), and dividing by the maximum hourly heat input capacity of the emissions unit (113.3 MMBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR part 60, Appendix A, Methods 1-5.

4. Emission Limitation: 1.5 lbs of SO₂ per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance with the SO₂ emission limitation shall be demonstrated by using the following equation from AP-42, Table 1.3-1, 5th Edition:

$$\text{SO}_2 \text{ Emission Rate (lbs/MMBtu)} = [(157* (S) \text{ lbs SO}_2/1000 \text{ gal})]/H$$

where, S is the actual weight % sulfur in the fuel, and H is the actual fuel oil heat content (MMBtu/1000 gal). S and H are determined from permittee's or fuel oil supplier's analyses (see Section A.III.1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Boiler No.2 - 113.3 MMBtu/hr natural gas and no.6 residual oil-fired boiler.	OAC rule 3745-18-31(T)	SO2 emissions shall not exceed 1.5 lbs/MMBtu of actual heat input.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

- Emission Limitation: 1.5 lbs of SO2 per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance with this limitation shall be determined based upon the records required pursuant to Section A.III.2, and calculated pursuant to Section A.V.4.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #3 BOILER (B003)
Activity Description: #3 BOILER (28-110-3)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Boiler No.3 - 113.3 MMBtu/hr natural gas and no.6 residual oil-fired boiler.	OAC rule 3745-17-10(C)(1)	Particulate matter (PM) emissions from emissions units B001, B002, B003, and B004 shall not exceed 0.127 lb of PM per million Btu (MMBtu) of actual heat input when burning no.6 residual oil.
	40 CFR 52.1881(b)(27)(ii)	Sulfur dioxide (SO ₂) emissions from this emissions unit shall not exceed 1.5 lbs/MMBtu of actual heat input.
	OAC rule 3745-17-10(B)(1)	PM emissions from this emissions unit shall not exceed 0.020 lb/MMBtu of actual heat input when burning natural gas.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the no.6 residual oil (fuel oil) burned in this emissions unit shall meet, on an as-received basis, a sulfur content (percent) which is sufficient to comply with the allowable SO₂ emission limitation of 1.5 lbs/MMBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect or require the fuel oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in emissions units B001 through B004. The permittee shall perform or require the supplier to perform the analyses for sulfur content (percent) and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternatively, equivalent methods may be used upon written approval by the Ohio EPA, Central District Office.
2. For each shipment of fuel oil received for burning in emissions units B001 through B004, the permittee shall maintain records of the following:
 - a. the total quantity of fuel oil received in each shipment (gallons);
 - b. the permittee's or fuel oil supplier's analyses of the heat content (Btu/gallon) of the fuel oil received in each shipment;
 - c. the permittee's or fuel oil supplier's analyses of the sulfur content (percent) of the fuel oil received in each shipment;
 - d. the calculated sulfur dioxide emission rate (lbs of SO₂/MMBtu of actual heat input) of the fuel oil received in each shipment;
 - e. the calculated particulate matter emission rate (lbs of PM/MMBtu of actual heat input) of the fuel oil received in each shipment (see section A.V.2); and
 - f. monthly calculations of the weighted average sulfur content, and heat content of the fuel oil received during each calendar month, and the total quantity (gallons) of fuel oil burned in emissions units B001 through B004 during the month.

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall perform weekly checks, when this emissions unit is in operation and burning fuel oil, and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operation;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to eliminate visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports which contain the fuel oil supplier's or permittee's analyses for each shipment of fuel oil received for burning in this emissions unit. The analyses shall document the quantity, heat content, and sulfur content (percent) of each shipment of fuel oil received. These quarterly reports shall be submitted to the Ohio EPA, Central District Office (CDO) by February 15, May 15, August 15, and November 15 of each year and shall cover the fuel oil shipments received during the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).
2. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the PM and SO₂ emission limitations (lb/MMBtu of actual heat input) for emissions units B001 through B004 listed in Section A.I.1 of this permit, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).
3. The permittee shall submit quarterly written reports which:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. describe any corrective actions taken to eliminate the visible particulate emissions.

These quarterly reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall cover the cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).

V. Testing Requirements

1. Compliance with the emission limitation(s) outlined in Section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method: Compliance with the visible emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, as outlined in OAC rule 3745-17-03(B)(1).

2. Emission Limitation: 0.127 lb of PM per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance shall be demonstrated by using the following equation from AP-42, Table 1.3-1, 5th Edition:

$$\text{PM Emission Rate (lbs/MMBtu)} = [(9.19 * (S) + 3.22) \text{ lbs PM/1000 gal}] / H$$

where, S is the actual weight % sulfur in the fuel, and H is the actual fuel oil heat content (MMBtu/1000 gal). S and H are determined from permittee's or fuel oil supplier's analyses (see Section A.III.1).

3. Emission Limitation: 0.020 lb of PM per MMBtu of actual heat input when burning natural gas.

Applicable Compliance Method: Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (113,300 cu.ft/hr) by the AP-42, Table 1.4-2, 5th Edition, emission factor for natural gas combustion (3.0 lbs of PM/MM cubic feet), and dividing by the maximum hourly heat input capacity of the emissions unit (113.3 MMBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

4. Emission Limitation: 1.5 lbs of SO₂ per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance with the SO₂ emission limitation shall be demonstrated by using the following equation from AP-42, Table 1.3-1, 5th Edition:

$$\text{SO}_2 \text{ Emission Rate (lbs/MMBtu)} = [(157 * (S) \text{ lbs SO}_2\text{/1000 gal})] / H$$

where, S is the actual weight % sulfur in the fuel, and H is the actual fuel oil heat content (MMBtu/1000 gal). S and H are determined from permittee's or fuel oil supplier's analyses (see Section A.III.1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Boiler No.3 - 113.3 MMBtu/hr natural gas and no.6 residual oil-fired boiler.	OAC rule 3745-18-31(T)	SO2 emissions shall not exceed 1.5 lbs/MMBtu of actual heat input.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

- Emission Limitation: 1.5 lbs of SO2 per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance with this limitation shall be determined based upon the records required pursuant to Section A.III.2, and calculated pursuant to Section A.V.4.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #4 BOILER (B004)
Activity Description: #4 BOILER (28-110-4)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Boiler No.4 - 113.3 MMBtu/hr natural gas and no.6 residual oil-fired boiler.	OAC rule 3745-17-10(C)(1)	Particulate matter (PM) emissions from emissions units B001, B002, B003, and B004 shall not exceed 0.127 lb per million Btu (MMBtu) of actual heat input when burning no.6 residual oil.
	40 CFR 52.1881(b)(27)(ii)	Sulfur dioxide (SO ₂) emissions from this emissions unit shall not exceed 1.5 lbs/MMBtu of actual heat input.
	OAC rule 3745-17-10(B)(1)	PM emissions from this emissions unit shall not exceed 0.020 lb/MMBtu of actual heat input when burning natural gas.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The quality of the no.6 residual oil (fuel oil) burned in this emissions unit shall meet, on an as-received basis, a sulfur content (percent) which is sufficient to comply with the allowable SO₂ emission limitation of 1.5 lbs/MMBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect or require the fuel oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in emissions units B001 through B004. The permittee shall perform or require the supplier to perform the analyses for sulfur content (percent) and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternatively, equivalent methods may be used upon written approval by the Ohio EPA, Central District Office.
2. For each shipment of fuel oil received for burning in emissions units B001 through B004, the permittee shall maintain records of the following:
 - a. the total quantity of fuel oil received in each shipment (gallons);
 - b. the permittee's or fuel oil supplier's analyses of the heat content (Btu/gallon) of the fuel oil received in each shipment;
 - c. the permittee's or fuel oil supplier's analyses of the sulfur content (percent) of the fuel oil received in each shipment;
 - d. the calculated sulfur dioxide emission rate (lbs of SO₂/MMBtu of actual heat input) of the fuel oil received in each shipment;
 - e. the calculated particulate matter emission rate (lbs of PM/MMBtu of actual heat input) of the fuel oil received in each shipment (see section A.V.2); and
 - f. monthly calculations of the weighted average sulfur content, and heat content of the fuel oil received during each calendar month, and the total quantity (gallons) of fuel oil burned in emissions units B001 through B004 during the month.

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall perform weekly checks, when this emissions unit is in operation and burning fuel oil, and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operation;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to eliminate visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports which contain the fuel oil supplier's or permittee's analyses for each shipment of fuel oil received for burning in this emissions unit. The analyses shall document the quantity, heat content, and sulfur content (percent) of each shipment of fuel oil received. These quarterly reports shall be submitted to the Ohio EPA, Central District Office (CDO) by February 15, May 15, August 15, and November 15 of each year and shall cover the fuel oil shipments received during the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).
2. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the PM and SO₂ emission limitations (lb/MMBtu of actual heat input) for emissions units B001 through B004 listed in Section A.I.1 of this permit, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).
3. The permittee shall submit quarterly written reports which:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. describe any corrective actions taken to eliminate the visible particulate emissions.

These quarterly reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall cover the cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).

V. Testing Requirements

1. Compliance with the emission limitation(s) outlined in Section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method: Compliance with the visible emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, as outlined in OAC rule 3745-17-03(B)(1).

2. Emission Limitation: 0.127 lb PM per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance shall be demonstrated by using the following equation from AP-42, Table 1.3-1, 5th Edition:

$$\text{PM Emission Rate (lbs/MMBtu)} = [(9.19*(S) + 3.22) \text{ lbs PM}/1000 \text{ gal}]/H$$

where, S is the actual weight % sulfur in the fuel, and H is the actual fuel oil heat content (MMBtu/1000 gal). S and H are determined from permittee's or fuel oil supplier's analyses (see Section A.III.1).

3. Emission Limitation: 0.020 lb of PM per MMBtu of actual heat input when burning natural gas.

Applicable Compliance Method: Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (113,300 cu.ft/hr) by the AP-42, Table 1.4-2, 5th Edition, emission factor for natural gas combustion (3.0 lbs of PM/MM cubic feet), and dividing by the maximum hourly heat input capacity of the emissions unit (113.3 MMBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

4. Emission Limitation: 1.5 lbs of SO₂ per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance with the SO₂ emission limitation shall be demonstrated by using the following equation from AP-42, Table 1.3-1, 5th Edition:

$$\text{SO}_2 \text{ Emission Rate (lbs/MMBtu)} = [(157* (S) \text{ lbs SO}_2/1000 \text{ gal})]/H$$

where, S is the actual weight % sulfur in the fuel, and H is the actual fuel oil heat content (MMBtu/1000 gal). S and H are determined from permittee's or fuel oil supplier's analyses (see Section A.III.1).

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**
Facility ID: **01-25-04-0554**
Emissions Unit: **#4 BOILER (B004)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Boiler No.4 - 113.3 MMBtu/hr natural gas and no.6 residual oil-fired boiler.	OAC rule 3745-18-31(T)	SO2 emissions shall not exceed 1.5 lbs/MMBtu of actual heat input.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Emission Limitation: 1.5 lbs of SO2 per MMBtu of actual heat input when burning fuel oil.

Applicable Compliance Method: Compliance with this limitation shall be determined based upon the records required pursuant to Section A.III.2, and calculated pursuant to Section A.V.4.

VI. Miscellaneous Requirements

None

Facility Name: ANHEUSER-BUSCH COLUMBUS BREWERY

Facility ID: 01-25-04-0554

Emissions Unit: #1 GRAIN DRYER (P017)

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #1 GRAIN DRYER (P017)

Activity Description: #1 GRAIN DRYER (33-119-3)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
No.1 grain dryer - 30 MMBtu/hr natural gas and no. 6 fuel oil-fired Heil rotary spent grain dryer with multi-clones and Ducon venturi scrubber.	OAC rule 3745-31-05 (PTI # 01-2324)	The combined maximum allowable particulate emissions from emissions units P017, P018, and P019 shall not exceed 9.37 pounds per hour (lbs/hr).
	OAC rule 3745-17-07(A)	Visible emissions from any stack in this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11	The emission limitation from this rule is equal to or less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when this emissions unit is in operation and burning no. 6 fuel oil, and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operation;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to eliminate visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly written reports which:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. describe any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Central District Office (CDO) by February 15, May 15, August 15, and November 15 of each year and shall cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).

V. Testing Requirements

1. Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method: Compliance with the visible emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, as outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Emission Limitation: The combined maximum allowable particulate matter emissions from emissions units P017, P018, and P019 shall not exceed 9.37 lb/hr.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

- a. An emission test shall be conducted within 3 months after issuance of the permit, and another emission test shall be conducted within 6 months prior to permit renewal.
- b. The emission testing shall be conducted at the inlet and outlet of the scrubber to determine the uncontrolled mass rate of emissions and to demonstrate compliance with the allowable mass emissions rate for particulates from P017, P018, and P019.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S.EPA approved test methods may be used with prior approval from the Ohio EPA.
- d. The tests shall be conducted while emissions units P017, P018, and P019 are operating at or near maximum capacity while burning no. 6 fuel oil, unless otherwise specified or approved by the Ohio EPA, CDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, CDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, CDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, CDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, CDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, CDO.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
No.1 Grain Dryer - 30 MMBtu/hr natural gas and no. 6 fuel oil-fired Heil rotary spent grain dryer with multi-clones and Ducon venturi scrubber.	OAC rule 3745-31-05	See B.II and B.IV below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate sources P017, P018, and P019 in a manner which complies with the following inlet operating temperatures:
 - a. If only one dryer is receiving grain, the inlet operating temperature shall not exceed 1450 degrees Fahrenheit as a one-hour average.
 - b. If two dryers are receiving grain, the inlet operating temperature shall not exceed 1100 degrees Fahrenheit as a one-hour average for each dryer.
 - c. If three dryers are receiving grain, the inlet operating temperature shall not exceed 980 degrees Fahrenheit as a one-hour average for each dryer.
2. The permittee shall operate each Ducon venturi scrubber such that the scrubber liquor flow rate is maintained above 320 gallons per minute and the scrubber pressure drop is maintained above 15.0 inches of water.

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**

Facility ID: **01-25-04-0554**

Emissions Unit: **#1 GRAIN DRYER (P017)**

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the dryer inlet temperature when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall operate and maintain continuous scrubber liquor flow rate and pressure drop monitors and recorder(s) which measure and record(s) the scrubber liquor flow rate and pressure drop when the emissions unit is in operation. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The monitors and recorder(s) shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, CDO, which identify at a minimum, the date, the time of occurrence, cause, and corrective action taken for each temperature variation above the limits specified in this permit (see Section B.II.1). These reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall address the data obtained during the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively). If no deviations occurred during the reporting period, a quarterly report shall be submitted which states that no deviations occurred during that reporting period.
2. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, CDO, which identify at a minimum, the date, the time of occurrence, cause, and corrective action taken for each scrubber liquor flow rate and scrubber pressure drop operating variation below the limits specified in this permit (see Section B.II.2). These reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall address the data obtained during the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively). If no deviations occurred during the reporting period, a quarterly report shall be submitted which states that no deviations occurred during that reporting period.

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #2 GRAIN DRYER (P018)
Activity Description: #2 GRAIN DRYER (33-119-4)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
No.2 grain dryer - 30 MMBtu/hr natural gas and no. 6 fuel oil-fired Heil rotary spent grain dryer with multi-clones and Ducon venturi scrubber.	OAC rule 3745-31-05 (PTI # 01-2324)	The combined maximum allowable particulate emissions from emissions units P017, P018, and P019 shall not exceed 9.37 pounds per hour (lbs/hr).
	OAC rule 3745-17-07(A)	Visible emissions from any stack in this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11	The emission limitation from this rule is equal to or less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when this emissions unit is in operation and burning no. 6 fuel oil, and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operation;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to eliminate visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly written reports which:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. describe any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Central District Office (CDO) by February 15, May 15, August 15, and November 15 of each year and shall cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).

V. Testing Requirements

1. Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method: Compliance with the visible emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, as outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Emission Limitation: The combined maximum allowable particulate matter emissions from emissions units P017, P018, and P019 shall not exceed 9.37 lb/hr.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

- a. An emission test shall be conducted within 3 months after issuance of the permit, and another emission test shall be conducted within 6 months prior to permit renewal.
- b. The emission testing shall be conducted at the inlet and outlet of the scrubber to determine the uncontrolled mass rate of emissions and to demonstrate compliance with the allowable mass emissions rate for particulates from P017, P018, and P019.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S.EPA approved test methods may be used with prior approval from the Ohio EPA.
- d. The tests shall be conducted while emissions units P017, P018, and P019 are operating at or near maximum capacity while burning no. 6 fuel oil, unless otherwise specified or approved by the Ohio EPA, CDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, CDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, CDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, CDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, CDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, CDO.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
No.2 Grain Dryer - 30 MMBtu/hr natural gas and no. 6 fuel oil-fired Heil rotary spent grain dryer with multi-clones and Ducon venturi scrubber.	OAC rule 3745-31-05	See B.II and B.IV below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate sources P017, P018, and P019 in a manner which complies with the following inlet operating temperatures:
 - a. If only one dryer is receiving grain, the inlet operating temperature shall not exceed 1450 degrees Fahrenheit as a one-hour average.
 - b. If two dryers are receiving grain, the inlet operating temperature shall not exceed 1100 degrees Fahrenheit as a one-hour average for each dryer.
 - c. If three dryers are receiving grain, the inlet operating temperature shall not exceed 980 degrees Fahrenheit as a one-hour average for each dryer.
2. The permittee shall operate each Ducon venturi scrubber such that the scrubber liquor flow rate is maintained above 320 gallons per minute and the scrubber pressure drop is maintained above 15.0 inches of water.

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**

Facility ID: **01-25-04-0554**

Emissions Unit: **#2 GRAIN DRYER (P018)**

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the dryer inlet temperature when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall operate and maintain continuous scrubber liquor flow rate and pressure drop monitors and recorder(s) which measure and record(s) the scrubber liquor flow rate and pressure drop when the emissions unit is in operation. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The monitors and recorder(s) shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, CDO, which identify at a minimum, the date, the time of occurrence, cause, and corrective action taken for each temperature variation above the limits specified in this permit (see Section B.II.1). These reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall address the data obtained during the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively). If no deviations occurred during the reporting period, a quarterly report shall be submitted which states that no deviations occurred during that reporting period.
2. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, CDO, which identify at a minimum, the date, the time of occurrence, cause, and corrective action taken for each scrubber liquor flow rate and scrubber pressure drop operating variation below the limits specified in this permit (see Section B.II.2). These reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall address the data obtained during the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively). If no deviations occurred during the reporting period, a quarterly report shall be submitted which states that no deviations occurred during that reporting period.

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Facility Name: ANHEUSER-BUSCH COLUMBUS BREWERY

Facility ID: 01-25-04-0554

Emissions Unit: #3 GRAIN DRYER (P019)

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #3 GRAIN DRYER (P019)

Activity Description: #3 GRAIN DRYER (33-119-17)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
No.3 grain dryer - 30 MMBtu/hr natural gas and no. 6 fuel oil-fired Heil rotary spent grain dryer with multi-clones and Ducon venturi scrubber.	OAC rule 3745-31-05 (PTI # 01-2324)	The combined maximum allowable particulate emissions from emissions units P017, P018, and P019 shall not exceed 9.37 pounds per hour (lbs/hr).
	OAC rule 3745-17-07(A)	Visible emissions from any stack in this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11	The emission limitation from this rule is equal to or less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when this emissions unit is in operation and burning no. 6 fuel oil, and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operation;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to eliminate visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly written reports which:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. describe any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Central District Office (CDO) by February 15, May 15, August 15, and November 15 of each year and shall cover the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively).

V. Testing Requirements

1. Emission Limitation: Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method: Compliance with the visible emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, as outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Emission Limitation: The combined maximum allowable particulate matter emissions from emissions units P017, P018, and P019 shall not exceed 9.37 lb/hr.

Applicable Compliance Method: The permittee shall conduct, or have conducted, emission testing in accordance with the following requirements:

- a. An emission test shall be conducted within 3 months after issuance of the permit, and another emission test shall be conducted within 6 months prior to permit renewal.
- b. The emission testing shall be conducted at the inlet and outlet of the scrubber to determine the uncontrolled mass rate of emissions and to demonstrate compliance with the allowable mass emissions rate for particulates from P017, P018, and P019.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S.EPA approved test methods may be used with prior approval from the Ohio EPA.
- d. The tests shall be conducted while emissions units P017, P018, and P019 are operating at or near maximum capacity while burning no. 6 fuel oil, unless otherwise specified or approved by the Ohio EPA, CDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, CDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, CDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, CDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, CDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, CDO.

VI. Miscellaneous Requirements

None

Facility Name: ANHEUSER-BUSCH COLUMBUS BREWERY

Facility ID: 01-25-04-0554

Emissions Unit: #3 GRAIN DRYER (P019)

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
No.3 Grain Dryer - 30 MMBtu/hr natural gas and no. 6 fuel oil-fired Heil rotary spent grain dryer with multi-clones and Ducon venturi scrubber.	OAC rule 3745-31-05	See B.II and B.IV below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall operate sources P017, P018, and P019 in a manner which complies with the following inlet operating temperatures:
 - a. If only one dryer is receiving grain, the inlet operating temperature shall not exceed 1450 degrees Fahrenheit as a one-hour average.
 - b. If two dryers are receiving grain, the inlet operating temperature shall not exceed 1100 degrees Fahrenheit as a one-hour average for each dryer.
 - c. If three dryers are receiving grain, the inlet operating temperature shall not exceed 980 degrees Fahrenheit as a one-hour average for each dryer.
2. The permittee shall operate each Ducon venturi scrubber such that the scrubber liquor flow rate is maintained above 320 gallons per minute and the scrubber pressure drop is maintained above 15.0 inches of water.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the dryer inlet temperature when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall operate and maintain continuous scrubber liquor flow rate and pressure drop monitors and recorder(s) which measure and record(s) the scrubber liquor flow rate and pressure drop when the emissions unit is in operation. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The monitors and recorder(s) shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, CDO, which identify at a minimum, the date, the time of occurrence, cause, and corrective action taken for each temperature variation above the limits specified in this permit (see Section B.II.1). These reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall address the data obtained during the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively). If no deviations occurred during the reporting period, a quarterly report shall be submitted which states that no deviations occurred during that reporting period.
2. The permittee shall submit quarterly deviation (excursion) reports to the Ohio EPA, CDO, which identify at a minimum, the date, the time of occurrence, cause, and corrective action taken for each scrubber liquor flow rate and scrubber pressure drop operating variation below the limits specified in this permit (see Section B.II.2). These reports shall be submitted to the Ohio EPA, CDO by February 15, May 15, August 15, and November 15 of each year and shall address the data obtained during the previous calendar quarters (i.e., October through December, January through March, April through June, and July through September, respectively). If no deviations occurred during the reporting period, a quarterly report shall be submitted which states that no deviations occurred during that reporting period.

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 25 BOTTLE FILLER (P068)

Activity Description: LINE 25 BOTTLE FILLER (24-25-070)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 25 bottle filler	OAC rule 3745-21-07(G)	None, See A.II.1 below.

2. Additional Terms and Conditions

- 2.a. Pursuant to OAC rule 3745-21-07(G)(9)(c), this emissions unit is exempt from the emission limitations specified in OAC rule 3745-21-07(G)(2).

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**
Facility ID: **01-25-04-0554**
Emissions Unit: **25 BOTTLE FILLER (P068)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 25 bottle filler	OAC rule 3745-31-05 (PTI # 01-6675)	See B.II.1 below. Organic compound (OC) emissions shall not exceed 3.13 pounds per hour (lbs/hr) * and 13.70 tons per year (TPY).

2. Additional Terms and Conditions

- 2.a. * This limitation represents the restricted maximum hourly OC emission rate. No additional record keeping to comply with the hourly emission limitation is required.

II. Operational Restrictions

1. The maximum fill rate of packaged beer from this emissions unit shall not exceed 1,611,840 barrels per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following monthly information for this emissions unit:
 - a. the packaged beer fill rate, in barrels.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total packaged beer fill rate, in barrels, and the total OC emissions from this emissions unit for the previous calendar year (i.e., January through December). These reports shall be submitted by February 15 of each year.

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**

Facility ID: **01-25-04-0554**

Emissions Unit: **25 BOTTLE FILLER (P068)**

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: 3.13 lbs OC per hour.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by dividing the maximum restricted annual fill rate (in barrels per year) by 8,760 hours and then multiplying the resultant by an emission factor of 17 lbs OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Hourly OC Emission (lbs/hr) = 17 lbs per 1000 barrels of beer packaged x hourly fill rate.

Emission Limitation: 13.7 tons OC per year.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by multiplying the actual annual fill rate (summation of values in Section B.III.1.a.) by an emission factor of 17 pounds OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Annual OC Emissions (Tons/Yr) = 17 lbs per 1000 barrels of beer packaged x annual fill rate x 1 ton/2000 lbs.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 45 CAN FILLER (P069)
Activity Description: LINE 45 CAN FILLER (25-45-060)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 45 can filler	OAC rule 3745-21-07(G)	None, See A.II.1 below.

2. Additional Terms and Conditions

- 2.a. Pursuant to OAC rule 3745-21-07(G)(9)(c), this emissions unit is exempt from the emission limitations specified in OAC rule 3745-21-07(G)(2).

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**
Facility ID: **01-25-04-0554**
Emissions Unit: **45 CAN FILLER (P069)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 45 can filler	OAC rule 3745-31-05 (PTI # 01-6675)	See B.II.1 below. Organic compound (OC) emissions shall not exceed 4.75 pounds per hour (lbs/hr) * and 20.79 tons per year (TPY).

2. Additional Terms and Conditions

- 2.a. * This limitation represents the restricted maximum hourly OC emission rate. No additional record keeping to comply with the hourly emission limitation is required.

II. Operational Restrictions

1. The maximum fill rate of packaged beer from this emissions unit shall not exceed 2,969,640 barrels per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following monthly information for this emissions unit:
 - a. the packaged beer fill rate, in barrels.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total packaged beer fill rate, in barrels, and the total OC emissions from this emissions unit for the previous calendar year (i.e., January through December). These reports shall be submitted by February 15 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: 4.75 lbs OC per hour.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by dividing the maximum restricted annual fill rate by 8,760 hours and then multiplying the resultant by an emission factor of 14 lbs OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Hourly OC Emissions (lbs/hr) = 14 lbs per 1000 barrels of beer packaged x hourly fill rate.

Emission Limitation: 20.79 tons OC per year.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by multiplying the actual annual fill rate (summation of values in Section B.III.1.a.) by an emission factor of 14 pounds OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Annual OC Emissions (Tons/Yr) = 14 lbs per 1000 barrels of beer packaged x annual fill rate x 1 ton/2000 lbs.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 50 CAN FILLER (P070)
Activity Description: LINE 50 CAN FILLER (25-506)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 50 can filler	OAC rule 3745-21-07(G)	None, See A.II.1 below.

2. Additional Terms and Conditions

- 2.a. Pursuant to OAC rule 3745-21-07(G)(9)(c), this emissions unit is exempt from the emission limitations specified in OAC rule 3745-21-07(G)(2).

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**
Facility ID: **01-25-04-0554**
Emissions Unit: **50 CAN FILLER (P070)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 50 can filler	OAC rule 3745-31-05 (PTI # 01-6675)	See B.II.1 below. Organic compound (OC) emissions shall not exceed 3.78 pounds per hour (lbs/hr) * and 16.56 tons per year (TPY).

2. Additional Terms and Conditions

- 2.a. * This limitation represents the restricted maximum hourly OC emission rate. No additional record keeping to comply with the hourly emission limitation is required.

II. Operational Restrictions

1. The maximum fill rate of packaged beer from this emissions unit shall not exceed 2,365,200 barrels per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following monthly information for this emissions unit:
 - a. the packaged beer fill rate, in barrels.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total packaged beer fill rate, in barrels, and the total OC emissions from this emissions unit for the previous calendar year (i.e., January through December). These reports shall be submitted by February 15 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: 3.78 lbs OC per hour.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by dividing the maximum restricted annual fill rate by 8,760 hours and then multiplying the resultant by an emission factor of 14 lbs OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Hourly OC Emissions (lbs/hr) = 14 lbs per 1000 barrels of beer packaged x hourly fill rate.

Emission Limitation: 16.56 tons OC per year.

Applicable Compliance Method : Compliance with this emission limitation shall be determined by multiplying the actual annual fill rate (summation of values in Section B.III.1.a.) by an emission factor of 14 pounds OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Annual OC Emissions (Tons/Yr) = 14 lbs per 1000 barrels of beer packaged x annual fill rate x 1 ton/2000 lbs.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 60 CAN FILLER (P071)
Activity Description: LINE 60 CAN FILLER (25-606)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 60 can filler	OAC rule 3745-21-07(G)	None, See A.II.1 below.

2. Additional Terms and Conditions

- 2.a. Pursuant to OAC rule 3745-21-07(G)(9)(c), this emissions unit is exempt from the emission limitations specified in OAC rule 3745-21-07(G)(2).

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**
Facility ID: **01-25-04-0554**
Emissions Unit: **60 CAN FILLER (P071)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 60 can filler	OAC rule 3745-31-05 (PTI # 01-6675)	See B.II.1 below. Organic compound (OC) emissions shall not exceed 3.93 pounds per hour (lbs/hr) * and 17.23 tons per year (TPY).

2. Additional Terms and Conditions

- 2.a. * This limitation represents the restricted maximum hourly OC emission rate. No additional record keeping to comply with the hourly emission limitation is required.

II. Operational Restrictions

1. The maximum fill rate of packaged beer from this emissions unit shall not exceed 2,461,560 barrels per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following monthly information for this emissions unit:
 - a. the packaged beer fill rate, in barrels.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total packaged beer production rate, in barrels, and the total OC emissions from this emissions unit for the previous calendar year (i.e., January through December). These reports shall be submitted by February 15 of each year.

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**

Facility ID: **01-25-04-0554**

Emissions Unit: **60 CAN FILLER (P071)**

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: 3.93 lbs OC per hour.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by dividing the actual annual fill rate by 8,760 hours and then multiplying the resultant by an emission factor of 14 lbs OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Hourly OC Emissions (lbs/hr) = 14 lbs per 1000 barrels of beer packaged x hourly fill rate.

Emission Limitation: 17.23 tons OC per year.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by multiplying the actual annual fill rate (summation of values in Section B.III.1.a.) by an emission factor of 14 pounds OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Annual OC Emissions (Tons/Yr) = 14 lbs per 1000 barrels of beer packaged x annual fill rate x 1 ton/2000 lbs.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 80 BOTTLE FILLER (P072)
Activity Description: LINE 80 BOTTLE FILLER (24-807)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 80 bottle filler	OAC rule 3745-21-07(G)	None, See A.II.1 below.

2. Additional Terms and Conditions

- 2.a. Pursuant to OAC rule 3745-21-07(G)(9)(c), this emissions unit is exempt from the emission limitations specified in OAC rule 3745-21-07(G)(2).

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**
Facility ID: **01-25-04-0554**
Emissions Unit: **80 BOTTLE FILLER (P072)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 80 bottle filler	OAC rule 3745-31-05 (PTI # 01-7328)	See B.II.1 below. Organic compound (OC) emissions shall not exceed 3.78 pounds per hour (lbs/hr) * and 16.53 tons per year (TPY).

2. Additional Terms and Conditions

- 2.a. * This limitation represents the restricted maximum hourly OC emission rate. No additional record keeping to comply with the hourly emission limitation is required.

II. Operational Restrictions

1. The maximum fill rate of packaged beer from this emissions unit shall not exceed 1,944,720 barrels per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following monthly information for this emissions unit:
 - a. the packaged beer fill rate, in barrels.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total packaged beer fill rate, in barrels, and the total OC emissions from this emissions unit for the previous calendar year (i.e., January through December). These reports shall be submitted by February 15 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: 3.78 lbs OC per hour.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by dividing the maximum restricted annual fill rate by 8,760 hours and then multiplying the resultant by an emission factor of 17 lbs OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Hourly OC Emissions (lbs/hr) = 17 lbs per 1000 barrels of beer packaged x hourly fill rate.

Emission Limitation: 16.53 tons OC per year.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by multiplying the actual annual fill rate (summation of values in Section B.III.1.a.) by an emission factor of 17 pounds OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Annual OC Emissions (Tons/Yr) = 17 lbs per 1000 barrels of beer packaged x annual fill rate x 1 ton/2000 lbs.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 85 BOTTLE FILLER (P073)

Activity Description: LINE 85 BOTTLE FILLER (24-85-070)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 85 bottle filler	OAC rule 3745-21-07(G)	None, See A.II.1 below.

2. Additional Terms and Conditions

- 2.a. Pursuant to OAC rule 3745-21-07(G)(9)(c), this emissions unit is exempt from the emission limitations specified in OAC rule 3745-21-07(G)(2).

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**
Facility ID: **01-25-04-0554**
Emissions Unit: **85 BOTTLE FILLER (P073)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 85 bottle filler	OAC rule 3745-31-05 (PTI # 01-7328)	See B.II.1 below. Organic compound (OC) emissions shall not exceed 3.62 pounds per hour (lbs/hr) * and 15.86 tons per year (TPY).

2. Additional Terms and Conditions

- 2.a. * This limitation represents the restricted maximum hourly OC emission rate. No additional record keeping to comply with the hourly emission limitation is required.

II. Operational Restrictions

1. The maximum fill rate of packaged beer from this emissions unit shall not exceed 1,865,880 barrels per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following monthly information for this emissions unit:
 - a. the packaged beer fill rate, in barrels.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total packaged beer fill rate, in barrels, and the total OC emissions from this emissions unit for the previous calendar year (i.e., January through December). These reports shall be submitted by February 15 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: 3.62 lbs OC per hour.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by dividing the maximum restricted annual fill rate by 8,760 hours and then multiplying the resultant by an emission factor of 17 lbs OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Hourly OC Emissions (lbs/hr) = 17 lbs per 1000 barrels of beer packaged x hourly fill rate.

Emission Limitation: 15.86 tons OC per year.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by multiplying the actual annual fill rate (summation of values in Section B.III.1.a.) by an emission factor of 17 pounds OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Annual OC Emissions (Tons/Yr) = 17 lbs per 1000 barrels of beer packaged x annual fill rate x 1 ton/2000 lbs.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 70 BOTTLE FILLER (P074)
Activity Description: LINE 70 BOTTLE FILLER (24-707)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 70 bottle filler	OAC rule 3745-21-07(G)	None, See A.II.1 below.

2. Additional Terms and Conditions

- 2.a. Pursuant to OAC rule 3745-21-07(G)(9)(c), this emissions unit is exempt from the emission limitations specified in OAC rule 3745-21-07(G)(2).

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

Facility Name: **ANHEUSER-BUSCH COLUMBUS BREWERY**
Facility ID: **01-25-04-0554**
Emissions Unit: **70 BOTTLE FILLER (P074)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Line no. 70 bottle filler	OAC rule 3745-31-05 (PTI # 01-7328)	Organic compound (OC) emissions shall not exceed 2.67 pounds per hour (lbs/hr) * and 11.69 tons per year (TPY). See B.II.1 below.

2. Additional Terms and Conditions

- 2.a. * This limitation represents the restricted maximum hourly OC emission rate. No additional record keeping to comply with the hourly emission limitation is required.

II. Operational Restrictions

1. The maximum fill rate of packaged beer from this emissions unit shall not exceed 1,375,320 barrels per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following monthly information for this emissions unit:
 - a. the packaged beer fill rate, in barrels.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total packaged beer fill rate, in barrels, and the total OC emissions from this emissions unit for the previous calendar year (i.e., January through December). These reports shall be submitted by February 15 of each year.

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V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation: 2.67 lbs OC per hour.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by dividing the actual annual fill rate by 8,760 hours and then multiplying the resultant by an emission factor of 17 lbs OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Hourly OC Emissions (lbs/hr) = 17 lbs per 1000 barrels of beer packaged x hourly fill rate.

Emission Limitation: 11.69 tons OC per year.

Applicable Compliance Method: Compliance with this emission limitation shall be determined by multiplying the actual annual fill rate (summation of values in Section B.III.1.a.) by an emission factor of 17 pounds OC per 1,000 barrels of beer packaged (AP-42, Table 9.12.1-2, 5th Edition).

Annual OC Emissions (Tons/Yr) = 17 lbs per 1000 barrels of beer packaged x annual fill rate x 1 ton/2000 lbs.

VI. Miscellaneous Requirements

None

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