



State of Ohio Environmental Protection Agency

Street Address:

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Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Lazarus Gov.
Center

RE: **FINAL PERMIT TO INSTALL MODIFICATION** **CERTIFIED MAIL**
FRANKLIN COUNTY
Application No: 01-07399
Fac ID: 0125040554

DATE: 8/24/2004

Anheuser Busch Inc
Dennis Sevin
700 East Schrock Road
Columbus, OH 43229

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 8/24/2004
Effective Date: 8/24/2004**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 01-07399

Application Number: **01-07399**
APS Premise Number: **0125040554**
Permit Fee: **\$0**
Name of Facility: **Anheuser Busch Inc Sevin**
Person to Contact: **Dennis**
Address: **700 East Schrock Road
Columbus, OH 43229**

Location of proposed air contaminant source(s) [emissions unit(s)]:
**700 East Schrock Road
Columbus, OHIO**

Description of modification:
Grain handling brewhouses 3 and 4.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

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GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

PERMIT TO OPERATE APPLICATION AND OPERATION AFTER COMPLETION OF CONSTRUCTION

If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

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Ohio EPA Source <u>Number</u>	Source Identification <u>Number</u>	BAT <u>Determination</u>	Applicable Federal & <u>OAC Rules</u>	Permit Allowable Mass Emissions and/or Control/Usage <u>Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Anheuser Busch Inc** located in **FRANKLIN** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>
P100	Malt transfer m(Brewhouse No. 3)
P102	P105 Grain building dust collection (Brewhouse No. 3)
P101	Adjunct transfer (Brewhouse No. 3)
P104	Malt Transfer (Brewhouse No. 4)
P106	

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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
4)		BAT Determination	Compliance with applicable Ohio rules and regulations, and use of fabric filter to control PM emissions.	applicable Ohio rules and regulations, and use of fabric filter to control PM emissions.
Adjunct transfer (Brewhouse No. 4)		Compliance with applicable Ohio rules and regulations, and use of fabric filter to control PM emissions.	Compliance with applicable Ohio rules and regulations, and use of fabric filter to control PM emissions.	Compliance with applicable Ohio rules and regulations, and use of fabric filter to control PM emissions.
Grain building dust collection (Brewhouse No. 4)		Compliance with applicable Ohio rules and regulations, and use of fabric filter to control PM emissions.	Compliance with	

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	3745-17-07 (A) (1) (a)			
Applicable Federal & <u>OAC Rules</u>		3745-31-05 3745-17-11 (A)(2) 3745-17-07 (A) (1) (a)	Permit Allowable Mass Emissions and/or Control/Usage <u>Requirements</u> Allowable PM emissions shall not exceed 0.02 pound PM per hour, and 0.07 ton PM per year. Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six minute average, except as provided by rule. Allowable PM emissions shall not exceed 0.01 pound PM per hour, and 0.03 ton PM per year. Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six minute average, except as provided by rule.	Allowable PM emissions shall not exceed 0.12 pound PM per hour, and 0.51 ton PM per year. Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six minute average, except as provided by rule. Allowable PM emissions shall not exceed 0.02 pound PM per hour, and 0.07 ton PM per year. Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six minute average, except as provided by rule. Allowable PM emissions shall not exceed 0.01 pound PM per hour, and 0.03 ton PM per year.
3745-31-05 3745-17-11 (A)(2) 3745-17-07 (A) (1) (a)	3745-31-05 3745-17-11 (A)(2) 3745-17-07 (A) (1) (a)			
3745-31-05 3745-17-11 (A)(2) 3745-17-07 (A) (1) (a)	3745-31-05 3745-17-11 (A)(2) 3745-17-07 (A) (1) (a)			
(A)(2)				

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six minute average, except as provided by rule.	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six minute average, except as provided by rule.			
Allowable PM emissions shall not exceed 0.01 pound PM per hour, and 0.03 ton PM per year.				

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**SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons/Year</u>
PM	1.22

CONSTRUCTION STATUS

The **Ohio EPA, Central District Office** shall be notified in writing as to (a) the construction starting date, (b) the construction completion date, and (c) the date the facilities were placed into operation for the following sources: **Brewhouse No. 3 and Brewhouse No. 4 (Grain Handling Operations)**.

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

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REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Central District Office, 3232 Alum Creek Drive, Columbus, OH 43207-3417.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Central District Office, 3232 Alum Creek Drive, Columbus, OH 43207-3417.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

CONSTRUCTION COMPLIANCE CERTIFICATION

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

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A. Additional Terms and Conditions

1. Hourly PM Emissions Limitation:

The total particulate matter emissions from emissions units P100, P101, P102, P104, P105 and P106 shall not exceed 0.30 pound PM per hour.

2. Annual PM Emissions Limitation:

The total particulate matter emissions from emissions units P100, P101, P102, P104, P105 and P106 shall not exceed 1.22 tons per calendar year.

3. Visible Particulate Emissions Limitation:

Visible particulate emissions from any stack serving P100, P101, P102, P104, P105 and P106 shall not exceed 20 percent opacity, as a six minute average, except as provided by rule.

B. Operational Restrictions

1. Malt and adjunct grains transfer in Brewhouse No. 3 and Brewhouse No. 4 shall not occur without the use of fabric filters to control particulate matter emissions from any grains transfer operations.
2. The maximum allowable throughput of malt (grains) shall not exceed 30,000 pounds per hour per brewhouse.
3. The maximum allowable throughput of adjunct (grains) shall not exceed 15,000 pounds per hour per brewhouse.

C. Recordkeeping Requirements

1. The permittee shall maintain daily records of the average hourly malt (grains) throughput for Brewhouse No. 3 and Brewhouse No. 4 per day.
2. The permittee shall maintain daily records of the average hourly adjunct (grains) throughput for Brewhouse No. 3 and Brewhouse No. 4 per day.
3. 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

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was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such record may be maintained in computerized form.

D. Reporting Requirements

1. The permittee shall submit quarterly reports that identify any exceedances during which the average hourly malt (grains) throughput for each day exceeded the maximum allowable hourly malt throughput limitation for each brewhouse, as well as the corrective actions that were taken to achieve compliance.
2. The permittee shall submit quarterly reports that identify any exceedances during which the average hourly adjunct (grains) throughput for each day exceeded the maximum allowable hourly adjunct throughput limitation, as well as the corrective actions that were taken to achieve compliance.
3. The permittee shall submit required reports in the following manner:
 - a. Reports of any required monitoring and/or record keeping information shall be submitted to the Ohio EPA, Central District Office;
 - b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of the following:
 - i. 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;
 - ii. The probable cause of such deviations, and,
 - iii. Any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA, Central District Office.

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 May 15, August 15, November 15, and February 15 of each year and shall cover the previous calendar quarters, respectively. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06).

E. Compliance Determination

1. Compliance with the emission limitation (s) in Section A.1, A.2, and A.3 of these terms and

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conditions shall be determined in accordance with the following method (s):

Hourly PM Emissions Limitations

The total particulate matter emissions from emissions units P100, P101, P102, P104, P105 and P106 shall not exceed 0.30 pounds PM per hour.

Applicable Compliance Method

Compliance with this emissions limit shall be determined by multiplying the hourly malt and adjunct grains throughput by the following emissions factors and control efficiencies:

- a. For Malt Transfer (P100/P104), use an emissions factor of one pound per ton of malt grain transferred. Multiply this emissions factor by the average hourly malt throughput in tons for each brewhouse to obtain PM emissions in pounds per hour. Apply the control efficiency of the fabric filter used to control particulate matter emissions from malt transfer to obtain the controlled PM emission rate.

$$\begin{aligned} \text{PM Emissions (lb/hr)} &= 1 \text{ lb/ton malt transferred} \\ &\quad \times Q \text{ tons malt transferred in each brewhouse} \\ &\quad \times (1 - \text{Control Efficiency}) \end{aligned}$$

- b. For Adjunct Transfer (P101/P105), use an emissions factor of one pound per ton of adjunct grains transferred. Multiply this emissions factor by the average hourly adjunct throughput in tons for each brewhouse to obtain PM emissions in pounds per hour. Apply the control efficiency of the fabric filter used to control particulate matter emissions from adjunct transfer to obtain the controlled PM emissions rate.

$$\begin{aligned} \text{PM Emissions (lb/hr)} &= 1 \text{ lb/ton adjunct transferred} \\ &\quad \times Q \text{ tons adjunct transferred in each brewhouse} \\ &\quad \times (1 - \text{Control Efficiency}) \end{aligned}$$

- c. For Grain Building Dust Collection (P102/P106), use an emissions factor of 4.2 pounds per ton of malt grain transferred, and an emissions factor of 7.0 pounds per ton of adjunct grains transferred. Multiply these emission factors by the average hourly malt and adjunct grains throughput for each brewhouse in tons to obtain PM emissions in pounds per hour. Apply the control efficiency of the fabric filter used to control particulate matter emissions from the grains building to obtain the controlled PM emissions rate.

$$\text{PM Emissions (lb/hr)} = 4.2 \text{ lb/ton malt transferred} + 7.0 \text{ lb/ton adjunct transferred}$$

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x Q tons adjunct transferred in each brewhouse
x (1 - Control Efficiency)

PM Emissions (lb/hr) = 7.0 lb/ton adjunct transferred
x Q tons adjunct transferred in each brewhouse
x (1 - Control Efficiency)

Total hourly particulate matter emissions from malt and adjunct grains transfer is determined from the summation of PM emissions from emissions units P100, P101, P102, P104, P105 and P106 shall not exceed 1.22 tons PM per year.

Annual PM Emissions Limitations

The total particulate matter emissions from emissions units P100, P101, P102, P104, P105 and P106.

Applicable Compliance Method

Compliance with this emissions limit shall be determined by multiplying the hourly malt and adjunct grains throughput by the following emissions factors and control efficiencies:

- d. For Malt Transfer (P100/P104), use an emissions factor of one pound per ton of malt grain transferred. Multiply this emissions factor by the maximum hourly malt throughput for each brewhouse (15 tons/hr) to obtain PM emissions in pounds per hour. Apply the control efficiency of the fabric filters used to control particulate matter emissions from malt transfer to obtain the controlled PM emissions rate. Multiply the resultant by 8760 hours per year and divide by 2000 to obtain PM emissions in tons per year.

PM Emissions (tons/yr) = 1 lb/ton malt transferred x 15 tons malt transferred per hour per brewhouse x (1 - Control Efficiency) x 8760 hours/year x 1 ton/2000 lbs.

- e. For Adjunct Transfer (P101/P105), use an emissions factor of one pound per ton of adjunct grains transferred. Multiply this emissions factor by the maximum hourly adjunct throughput for each brewhouse (7.5 tons/hr) to obtain PM emissions in pounds per hour. Apply the control efficiency of the fabric filters used to control particulate matter emissions from adjunct transfer to obtain the controlled PM emissions rate. Multiply the resultant by 8760 hours per year and divide by 2000 to obtain PM emissions in tons per year.

PM Emissions (tons/yr) = 1 lb/ton adjunct transferred x 7.5 tons adjunct transferred per hour x (1 - Control Efficiency) x 8760 hours/year x 1 ton/2000 lbs.

- f. For Grain Building Dust Collection (P102/P106), use an emissions factor 4.2 pounds per ton of malt grain transferred, and an emissions factor of 7.0 pounds per

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ton of adjunct grains transferred. Multiply these emissions factors by the maximum hourly malt and adjunct grains throughput for each brewhouse (15 tons/hr and 7.5 tons/hr, respectively) to obtain PM emissions in pounds per hour. Apply the control efficiency of the fabric filters used to control particulate matter emissions from the grains building to obtain the controlled PM emission rate. Multiply the resultant by 8760 hours per year and divide by 2000 to obtain PM emissions in tons per year.

PM Emissions (tons/yr) = 4.2 lbs/ton malt transferred x 15 tons malt transferred per hour per brewhouse x (1 - Control Efficiency) x 8760 hours/year x 1 ton/2000 lbs
PM Emissions (tons/yr) = 7.2 lbs/ton adjunct transferred x 7.5 tons adjuncts transferred per hour x (1 - Control Efficiency) x 8760 hours/year x 1 ton/2000 lbs.

Total annual particulate matter emissions from grains transfer is determined from the summation of PM emissions from emissions units P100, P101, P102, P104, P105 and P106.

Visible Particulate Emission Limitation

Visible particulate emissions from any stack associated with these emissions units shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

For the purpose of determining compliance with the visible particulate emissions limitation specified above, visible particulate emissions shall be determined according to the test methods and procedures prescribed in OAC rule 3745-17-03 (B) (1).