



## PART 70 PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth herein.

**Operating Permit Number:** OP2010-109  
**Expiration Date:** OCT 20 2015  
**Installation ID:** 510-0003  
**Project Number:** 1997-05-013

**Installation Name and Address**

Anheuser-Busch, Inc. St. Louis Brewery  
One Busch Place 3-2  
St. Louis, MO 63118-1852

**Parent Company's Name and Address**

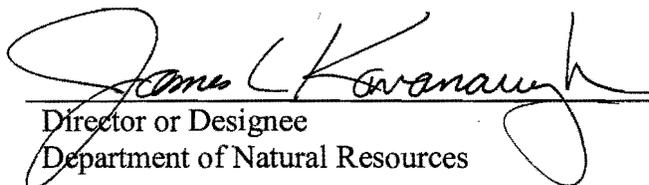
Anheuser-Busch Companies, Inc.  
One Busch Place  
St. Louis, MO 63118-1852

**Installation Description:**

The Anheuser-Busch, Inc. St. Louis Brewery produces beer from barley malt, cereal grains (adjuncts), water, hops and yeast. The process begins with wort production, which converts the water, malt and adjunct into a yeast fermentable substrate. Hops are added for flavor and then the wort is fermented to produce beer. Ultimately, the beer is filtered, packaged and pasteurized. The brewery is divided into seven major areas: grains handling; brewing; fermenting; finishing; beer packaging and shipping; utilities; manufacturer's railway facility and wastewater pretreatment.

OCT 21 2010

Effective Date

  
Director or Designee  
Department of Natural Resources

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## **I. Installation Description and Equipment Listing**

### **INSTALLATION DESCRIPTION**

The Anheuser-Busch, Inc. St. Louis Brewery produces beer from barley malt, cereal grains (adjuncts), water, hops and yeast. The St. Louis Brewery conducts principally seven operations: grains handling; brewing; fermenting; finishing; packaging and shipping; utilities operations; wastewater pretreatment and railway facility. Primarily, regulated pollutants are emitted from the grains handling, brewing, fermenting, finishing, packaging, utilities operations, manufacturer's railway operation and wastewater pretreatment.

The grains handling area includes equipment for unloading, storing and conveying grains that have been received by the facility. The grain that has been received is then milled and weighed prior to being introduced into the mash cookers. The handling and storage of the grains generate particulate matter (PM).

The milled grains are blended with water and heated in mash cookers, generating volatile organic emissions (VOC's). The cooked mash is then transferred to lauter tuns to separate out the spent grains from the resulting liquid (called wort), where small amounts of VOC's are emitted. The wort is then transferred to brewkettles, where hops are added and the system is heated, generating VOC's. In the starting cellar, the hot wort is cooled and transferred to fermenters, releasing VOC's. In the fermenting cellar, yeast is added to the cold wort, generating alcohol and carbon dioxide (CO<sub>2</sub>). After fermentation, yeast and unstable protein materials are removed in the finishing process by chill-proofing and filtration. After filtration, beer is transferred to finishing tanks for storage prior to packaging in bottles, cans and kegs. CO<sub>2</sub> and VOC's are emitted during the filling process.

The utilities area includes boilers, CO<sub>2</sub> regeneration systems, an ammonia refrigeration system, and a wastewater pretreatment system (BERS). The boilers produce steam for process and space heat, emitting combustion byproducts.

The Manufacturer's Railway Operation (MFR) facility provides short line rail and switching operations for the St. Louis Brewery. The railway operations include both mobile and stationary sources. The mobile source emissions from the operation of locomotive engines are not subject to the air permitting requirements. In conjunction with the rail service operations, MFR performs railcar and locomotive maintenance on MFR equipment and occasionally for external customers. These maintenance activities include locomotive maintenance and rebuilding, painting, solvent cleaning and welding.

The reported actual emissions for the past five years for the installation are listed below:

Reported Air Pollutant Emissions, tons per year								
Year	Particulate Matter ≤ Ten Microns (PM-10)	Particulate Matter ≤ 2.5 Microns (PM-2.5)	Sulfur Oxides (SO <sub>x</sub> )	Nitrogen Oxides (NO <sub>x</sub> )	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2009	306.41	274.73	4,994.73	551.95	236.78	114.00	0.00	79.81
2008	346.31	24.38	5,431.34	668.29	250.30	145.98	0.00	97.26
2007	56.58	23.27	5,858.43	698.27	248.77	144.53	0.00	97.67
2006	56.23	18.26	6,214.18	663.44	254.40	144.17	0.00	99.48
2005	57.79	18.96	6,539.88	714.28	248.14	152.53	0.00	103.81

**EMISSION UNITS WITH LIMITATIONS**

The following list provides a description of the equipment at this installation that emits air pollutants and that are identified as having unit-specific emission limitations.

Emission Unit #	Reference Number	Description of Emission Unit	Emission Unit Location	Stack ID	Manufacturer/Model
EU0101	B01	Boiler 1	Building 6	S01	Babcock & Wilcox
EU0102	B05	Boiler 5	Building 6	S05	Babcock & Wilcox
EU0103	B07	Boiler 7	Building 179	S07	Babcock & Wilcox
EU0104	B08	Boiler 8	Building 6	S08	Zern
EU0105	B09	Boiler 9	Building 6	S09	Zern
EU0201	CP404	Standby Power Generator	South of Building 181	S404	Caterpillar Model 3615B
EU0202	CP406	Emergency Diesel Generator for the EMCON Room	EMCON Room	S406	Magnetek Century Electric, Model RDS 500
EU0301	GN254	Solvent Clean-up Hood	Building 137 (Bevo)	S254	~
EU0401		Malt Filter/Receiver, Grain Transfer 1	Building 59, 5th Floor	S31	Fabric Filter - Low Temperature- Buhler Miag ASFA 44/6 B-225
EU0402	GT300	Rice/Corn/Special Malt Filter/Receiver, Grain Transfer 2	Building 59, 5th Floor	S32	Fabric Filter - Low Temperature- Buhler Miag ASFA 44/6 B-225
EU0403		Rice/Corn/Malt Filter/Receiver, Grain Transfer 3	Building 259, 3rd Floor	S33	Fabric Filter - Low Temperature- Buhler Miag ASFA 44/6 B-225
EU0404	GT34	Emergency Truck Loadout	Building 48	none	~
EU0405	GT300	Rice Cleaner 1	Building 59, 2nd Floor	S36	~
EU0406		Malt Cleaner 2	Building 59, 3rd Floor	S36	~
EU0407		Malt Cleaner 3	Building 59, 3rd Floor	S36	~
EU0408		Rice/Corn/Malt Cleaner 4	Building 259, 2nd Floor	S39	~

<b>Emission Unit #</b>	<b>Reference Number</b>	<b>Description of Emission Unit</b>	<b>Emission Unit Location</b>	<b>Stack ID</b>	<b>Manufacturer/Model</b>
EU0409		Rice/Corn/Malt Cleaner 5	Building 259, 2nd Floor	S39	~
EU0410		Malt Milling Filter/Receiver, Grain Transfer 5	Building 237, Roof	S46	Fabric Filter - Low Temperature- Buhler Miag ASFA 36/6 B-25
EU0411		Rice/Corn/Special Malt Milling Filter/Receiver, Grain Transfer 6	Building 237, Roof	S47	Fabric Filter - Low Temperature- Buhler Miag 36/6 B-25
EU0412		Rice/Corn/Malt Filter/Receiver, Grain Transfer 7	Building 237, Roof	S48	Fabric Filter - Low Temperature- Buhler Miag 36/6 B-25
EU0413		Malt Surge Bins (2), Grain Transfer 5	Building 237, Floors 3, 5, 7 and 8	S51	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8A
EU0414		Hopper/Feeder - Malt Line from Cleaners 2 & 3	Buildings 48 and 59	S21	~
EU0415		Hopper/Feeder - Rice/Grits from Cleaners 4 & 5	Building 259, 2nd Floor	S39	~
EU0416		Hopper/Feeder from Cleaner 1	Buildings 48 and 59	S21	~
EU0417		Malt Distribution Bin, Grain Transfer 5	Building 237, Floors 3, 5, 7 and 8	S51	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8A
EU0418		Malt Mills (6)	Building 237, Floors 3, 5, 7 and 8	S51	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8A
EU0419		Scale Hoppers (2)	Building 237, Floors 3, 5, 7 and 8	S51	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8A
EU0420		Malt Surge Bins (2), Grain Transfer 7	Building 237, Floors 3, 5, 7 and 8	S51	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8A
EU0421		Rice Surge Bin, Grain Transfer 6	Building 237, Floors 2, 4, 7 and 8	S51	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8A
EU0422		Corn Surge Bin, Grain Transfer 6	Building 237, Floors 2, 4, 7 and 8	S51	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8A
EU0423		Rice Mills (4), Grain Transfer 6	Building 237, Floors 2, 4, 7 and 8	S51	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8A
EU0424		Scale Hoppers (2), Grain Transfer 6	Building 237, Floors 2, 4, 7 and 8	S51	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8A
EU0425		Malt Dust Transfer Filter/Receiver	Building 48, Roof	S435	Fabric Filter - Low Temperature- Buhler Miag RPHV-4/3

<b>Emission Unit #</b>	<b>Reference Number</b>	<b>Description of Emission Unit</b>	<b>Emission Unit Location</b>	<b>Stack ID</b>	<b>Manufacturer/Model</b>
EU0501		Grain Unloading 1	Building 221, Roof	S11	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/5B-225
EU0502		Grain Unloading 2	Building 221, Roof	S12	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8 B-225
EU0503		Grain Unloading 3	Building 221, Roof	S13	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8 B-225
EU0504		Pressure Vessels, Grain Unloading 1	Building 221, Floors 1 and 2M	S14	~
EU0505		Pressure Vessels-Malt, Grain Unloading 2	Building 221, Floors 1 and 2M	S14	~
EU0506	GU300	Filter/Receiver 2B, Grain Unloading 2	Building 48, Roof	S16	Fabric Filter - Low Temperature- Buhler Miag ASFA 36/8 B-25
EU0507		Filter/Receiver 3B, Grain Unloading 3	Building 48, Roof	S17	Fabric Filter - Low Temperature- Buhler Miag ASFA 64/8 B-225
EU0508		Filter/Receiver 1B, Grain Unloading 1	Building 48, Roof	S18	Fabric Filter - Low Temperature- Buhler Miag ASFA 36/8 B-25
EU0509		Filter/Receiver 2C, Grain Unloading 2	Building 48, Roof	S19	Fabric Filter - Low Temperature- Buhler Miag ASFA 36/8 B-25
EU0510		Elevator C & D Conveyor, Grain Unloading 3	Buildings 48 and 59	S21	~
EU0511		Elevator H Drag Conveyor, Grain Unloading 2	Building 39A, Roof	S23	~
EU0512		Elevator C Drag Conveyor, Grain Unloading 1	Buildings 48 and 59	S21	~
EU0601	PK240	Draft Lines (93 Fillers)	Building 204 (Warehouse Addition)	none	~
EU0602	PK241	Lines 60, 66, 67, 68 & 69 Fillers – Cans	Building 137 (Bevo)	none	~
EU0603	PK242	Lines 33, 34, 36, 37, 38, 39 & 40 Fillers - Bottles (NR)	Buildings 137 (Bevo), Building 204	none	~
EU0605	PK244	Videojet Ink Coders	Buildings 137 (Bevo) and 204	none	Video Jet Corp.
EU0606	PK253	Diagraph Coders	Buildings 137 (Bevo) and 204	none	~
EU0607	PK442	Beer Packaging - Sanitizing Solution - Line 39	Buildings 137 (Bevo) and 204	none	~
EU0701	SH171	D.E. Silo 1	Building 190	S171	~

<b>Emission Unit #</b>	<b>Reference Number</b>	<b>Description of Emission Unit</b>	<b>Emission Unit Location</b>	<b>Stack ID</b>	<b>Manufacturer/Model</b>
EU0702	SH172	D.E. Silo 2	Building 190	S172	~
EU0703	SH314	D.E. Scale Tank	Building 190	S314	~
EU0704	SH425	Schoene Receivers-Stockhouse 19	Building 229 (Stockhouse 19), 2nd Floor	S425	~
EU0705	SH426	Schoene Tanks-Stockhouse 19	Building 229 (Stockhouse 19)	S425	~
EU0706	SH427	Schoene Beer Balance Tanks-Stockhouse 19	Building 229 (Stockhouse 19), 2nd Floor	S425	~
EU0707	SH429	K-Filters-Stockhouse 19	Building 229 (Stockhouse 19), 1st Floor	S429	~
EU0708	SH430	Filter Beer Balance Tanks-Stockhouse 19	Building 229 (Stockhouse 19), 1st Floor	S431	~
EU0709	SH431	Finishing Tanks-Stockhouse 19	Building 229 (Stockhouse 19), 2nd Floor	S431	~
EU0710	SH432	Blowback Tanks-Stockhouse 19	Building 229 (Stockhouse 19), 2nd Floor	S431	~
EU0711	SH433	Spent D.E. Slurry Tank, Stockhouse 19	Building 229 (Stockhouse 19), 5th Floor	S433	
EU0712	SH191	Chip Tanks, Stockhouse 14	Building 155		
EU0713	SH195	Chip Washers/Separators, Stockhouse 14	Building 155, 6th Floor		
EU0714	SH192	Chip Tanks, Stockhouse 16	Building 166		
EU0715	SH196	Chip Washers/Separators, Stockhouse 16	Building 166, 6th Floor		
EU0716	SH269	Spent Yeast Tank, Stockhouse 16	Building 166A, 1st Floor		
EU0717	SH410	Unitanks, Stockhouse 16	Building 166A, 1st Floor		
EU0718	SH198	Vertical Alpha Tanks, Stockhouse 17	Building 189, 1st Floor		
EU0719	SH199	Vertical Alph Tank Drop Receiver #1, Stockhouse 17	Building 189, 1st Floor		
EU0720	SH200	Vertical Alph Tank Drop Receiver #2, Stockhouse 17	Building 189, 1st Floor		
EU0721	SH292	Cold Wort Settlers, Stockhouse 17	Building 226, 1st Floor		
EU0722	SH293	Yeast Brinks, Stockhouse 17	Building 189, 1st Floor		
EU0723	SH294	Spent Yeast Brink, Stockhouse 17	Building 189, 1st Floor		
EU0724	SH193	Chip Tanks, Stockhouse 18	Building 215		
EU0725	SH197	Chip Washers/Separators, Stockhouse 18	Building 215, 2nd Floor		
EU0726	SH515	Unitanks, Stockhouse 20	Building 242, 1st Floor		
EU0727	SH516	Krauesen Tanks, Stockhouse 20	Building 242, 1st Floor		
EU0728	SH177	Spent Beechwood Chip Dumpster	Various		
EU0801	UT300	100,000 Gal No. 2 Fuel Oil Storage Tank	Building 158, South Side	S300	~
EU0802	UT370	Fly Ash Filter/Separator	Building 158A	S370	United Conveyor Corp.

<b>Emission Unit #</b>	<b>Reference Number</b>	<b>Description of Emission Unit</b>	<b>Emission Unit Location</b>	<b>Stack ID</b>	<b>Manufacturer/Model</b>
					Model 26-S-72
EU0803	UT371	Fly Ash Silo Bin Vent	Building 158A	S371	Industrial Accessories Model 848V-A2-960S
EU0804	UT372	Bottom Ash Filter/Separator	Building 158A	S372	United Conveyor Corp. Model 41-5-96
EU0805	UT373	Bottom Ash Silo Bin Vent	Building 158A	S373	Industrial Accessories Model 88BVI-A2-960S
EU0806	UT381	Biogas Flare	BERS	S381	John Zink EEF-U-12LF Energy Efficient Flare Tip
EU0807	UT382	Biogas Filter	BERS	S382	Custom Design
EU0808	UT410	CO2 Regeneration System 3-Stockhouse 17, 3rd Floor	Building 189 (Stockhouse 17), 3rd Floor	S409	~
EU0810	UT444	Coal Preparation Plant			
EU0901	MFR-001	Cold Cleaners	MFR Facility		
EU0902	MFR-002	Mart Aqueous Parts Washer	MFR Facility		
EU0903	MFR-006	Paint Booths (2 Units)	MFR Facility		
EU0904	MFR-003	Cleanup Solvent Use for Paint Equipment	MFR Facility		

**EMISSION UNITS WITHOUT LIMITATIONS**

The following list provides a description of the equipment that does not have unit specific limitations at the time of permit issuance.

<b>Reference Number</b>	<b>Emission Source Description</b>
BH200	Brew Holding Kettles
BH201	Brew Kettles
BH202	Hot Wort Receivers
BH203	Wort Aerators
BH204	Mash Cookers 1 through 12
BH205	Lauter Tuns
BH206	Spent Grain Buffer Tanks
BH74	Mash Cooker 13
BH75	Mash Cooker 14
BH76	Mash Cooker 15
BH77	Mash Cooker 16
BH78	Mash Cooker 17
BH79	Mash Cooker 18
BH131	Hops Strainers 1, 2 and 3
CP401	Corporate Yeast Culture
CP405	2000 Gal No. 2 Fuel Oil Tank
F406	Fumigation-Railcar
F407	Fumigation-General
GN251	Parts Washers
GN306	Card Board Baler , Building 137 (Bevo)
GN308	Explosion Protection
GN311	Welding Various (Fugitive)
GN355	General Paint/Solvent – Water Based Paint
GT300	Grain Transfer System (Fugitive)
GU248	Five (5) Vacuum Cleaner System (Grain Area)
GN354	Miscellaneous Clean-up Solvent
GN355	Structural Coatings – General Paint/Solvent Usage
INS500	Portable Space Heaters
INS501	Fixed Heating Units
PB186	Malt Transfer from Elevator H to Pilot Brewery, Pilot Brewery
PB223	Portable Grain Bins - Pilot Brewery
PB224	Malt Mill - Pilot Brewery
PB225	Portable Tote Bins - Pilot Brewery
PB228	Malt Dryer - Pilot Brewery
PB229	Mash Cookers - Pilot Brewery
PB231	Lauter Tun - Pilot Brewery
PB232	Spent Grains Buffer Tank - Pilot Brewery

<b>Reference Number</b>	<b>Emission Source Description</b>
PB234	Hot Wort Receiver-Pilot Brewery
PB236	Wort Aerator/Stripper-Pilot Brewery
PB237	Alpha Tanks-Pilot Brewery
PB238	Chip Tanks-Pilot Brewery
PB318	Schoene Tanks-Pilot Brewery
PB319	K-Filter-Pilot Brewery
PB323	Filter Beer Tanks-Pilot Brewery
PB324	Beer Packaging-Pilot Brewery
PB325	Cold Wort Settlers-Pilot Brewery
PB326	Chip Washer-Pilot Brewery
PB327	Schoene Beer Balance Tank
PB328	Pasteurizer-Pilot Brewery
PB329	Hops Strainer-Pilot Brewery
PK246	Bottle and Can Crusher
PK247	Pasteurizers
PK248	Beer Packaging-Hot Melt Glue
PK249	Beer Packaging-Casein Glue
PK250	Beer Packaging-Non-Casein Glue
PK251	Keg Washer (2)
PK252	Soaker (Bottle Washer)
PK256	Packaging Line Lubricants
PK260	Waste Beer Sump
PK439	Line 39 Hot Melt Glue
PK440	Line 39 Label Glue
RH136	Spent Grains Tank
RH165	Wet Spent Grain Presses
RH166	Spent Grains Centrifuges
RH220	Wet Spent Grains Tanks 1
RH221	Wet Spent Grains Tanks 2
RH222	Wet Spent Grains Loadout Tank
RH436	Wet Spent Grains Emergency Loadout
SH177	Spent Beechwood Chip Dumpsters
SH191	Chip Tanks, Stockhouse 14
SH192	Chip Tanks, Stockhouse 16
SH193	Chip Tanks, Stockhouse 18
SH195	Chip Washers, Stockhouse 14
SH196	Chip Washers, Stockhouse 16
SH197	Chip Washers, Stockhouse 18
SH198	Vertical Alpha Tanks, Stockhouse 17
SH199	Vertical Alpha Tanks Drop Receiver 1, Stockhouse 17

<b>Reference Number</b>	<b>Emission Source Description</b>
SH200	Vertical Alpha Tanks Drop Receiver 2, Stockhouse 17
SH269	Spent Yeast Brink, Stockhouse 16
SH292	Cold Wort Settlers, Stockhouse 17
SH293	Yeast Brinks, Stockhouse 17
SH294	Spent Yeast Brink, Stockhouse 17
SH320	Kraeusen Holding Tanks, Stockhouse 16
SH410	Unitanks, Stockhouse 16
SH428	ACP System –Stockhouse 19
SH434	Tannin/D.E. Manual Drop Station, Stockhouse 19
UT305	Bulk Salt System (Water Softener)
UT408	CO <sub>2</sub> Regeneration System 1-Stockhouse 17, 2nd Floor
UT411	Ammonia-Based Refrigeration System
UT412	Ammonia Recovery System
UT445	Ammonia Refrigeration System (fugitive)
UT446	Cooling Towers

**Emission Sources at the MFR Facility**

	Electric Oven
MFR-008	Trinico Bead Blast Machine
	Locomotive (9 units)
	Load Cell
MFR-004	1.5 MMBtu/hr Natural Gas-fired Heater for Make Up Air Unit
	Natural Gas-fired Hot Water Heater
MFR-012	Sand Loading and Unloading
MFR-013	Whitco Heated Pressure Washer
MFR-014	05.MMBtu/hr Waste Oil Heater
MFR-015	25 Small Space Heaters – ranging
MFR-016	Welding (used as needed)
MFR-017	Grinding and Lathe Operation (maintenance, grinding and machining as needed)
MFR-018	10,000 Gallon Underground Diesel Fuel Tank

**DOCUMENTS INCORPORATED BY REFERENCE**

These documents have been incorporated by reference into this permit.

<b>City of St. Louis Air Pollution Control Division (APCD) Permit Name/Number</b>	<b>Issue Date</b>
1) Celite Slurry Mixing & Transferring System Permit	03/11/1993
2) Permit No. 03-04-005 (Building 149A Paint Booth & 137 Solvent Clean-up Hood – Amendment)	07/22/2003
3) Source Registration Permit, Permit No.: SR01.049 (100,000 Gallon Storage Tank)	10/01/2001
4) Permit No. 94-07-051 (Bioenergy Recovery System)	08/14/1995
5) Permit Matter No. 99-06-035 (Bioenergy Recovery System)	06/10/1999
6) Permit No. 95-12-138 (250 Gal Diesel Tank, 250 Gal Gas Tank)	12/07/1995
7) Permit No. 07-07-010 (Boiler 8 and 9)- Amendment to Permit No. 95-10-130	12/07/2007

<b>City of St. Louis Air Pollution Control Division (APCD) Permit Name/Number</b>	<b>Issue Date</b>
8) Permit No. 95-10-124 (Dry Ash Removal System)	06/05/1996
9) Permit No. 96-07-058A (Standby Power Generator)	11/08/1996
10) Permit Matter for Permit 96-07-058A	06/10/1999
11) Amendment to Permit No. 96-07-058A	10/10/2002
12) Permit No. 98-11-075 (Line 39)	12/17/1998
13) Permit Matter No. 98-11-075PM	02/07/2001
14) Permit 98-11-075PM – Nullification of Permit Conditions	04/17/2003
15) Permit 98-11-075PM2 – Amendment to Permit No. 98-11-075PM	12/05/2003
16) Source Registration Permit SR00-018PM (EMCON Emer. Gen.)	03/27/2003
17) Permit No. 97-02-016PM2 (Packaging Coder System)	03/12/2001
18) Permit No. 09-12-025 (Specialty Packaging Line & Increase Beer Production)	03/24/2010
19) Permit No. 04-11-020 (Amendments to Four Grains Handling Permits)	01/26/2004
20) APCP's Concurrence Letter (dated June 30, 1998) to the Coal Sampling, Analysis and Compliance Procedure Document Submitted by Anheuser Busch on June 10, 1998.	
21) Permit No. 95-05-059 – MFR Paint Booth and Parts Washer Permit	
22) APCP's Concurrence Letter (dated June 30, 1998) to the Coal Sampling, Analysis and Compliance Procedure Document Submitted by Anheuser Busch on June 10, 1998	
23) City of St. Louis Air Pollution Control's Concurrence Letter (dated December 5, 2007) to Solid Fuel Sampling, Analysis and Compliance Procedure Document Submitted by Anheuser-Busch as required by Construction Permit No. 07-07-010.	

## II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

### Permit Condition PW001

#### 10 CSR 10-6.620

#### St. Louis City Ordinance 65645, §14<sup>1</sup>

#### Restriction of Emission of Visible Air Contaminants

#### Emission Limitation:

- 1) No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any source in the St. Louis metropolitan area any visible emissions with an opacity greater than 20%.
- 2) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any 60 minutes air contaminants with an opacity up to 40%.

#### Monitoring:

- 1) The following monitoring procedures shall be used to conduct visible emission readings:
  - a) The permittee shall observe the stack exhaust (or stack exhausts if more than one stack) for visible emissions:
    - i) May observe numerous stacks from a single location.
    - ii) Each reading will be for 1-minute in duration.
    - iii) If any visible emissions are observed, Anheuser-Busch will focus on those sources.
    - iv) The Installation shall ensure that all sources are observed at least once during the calendar year while operating
  - b) Determine if visible emissions are “normal” or not.
    - i) If not “normal”, Anheuser-Busch shall conduct a Method 9 observation within a reasonable amount of time.
    - ii) If Anheuser-Busch initiates corrective action (i.e., shuts down source) to eliminate the visible emissions:
      - (1) A follow-Up Method 22-like visible emission observation shall be conducted upon bringing the source on line.
      - (2) If situation persists, conduct Method 9 within a reasonable amount of time.
- 2) The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then-
  - b) Observations must be made once every two weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then-
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.

<sup>1</sup> St Louis City Ordinance 65645, §14 is a local agency rule which is enforceable by the City of St. Louis only.

- 3) If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

**Recordkeeping:**

- 1) The permittee shall maintain records of all required observation results (using Attachment A or equivalent ), noting:
  - a) Whether any air emissions (except for water vapor) were visible from the emission units,
  - b) All emission units from which visible emissions occurred, and
  - c) Whether the visible emissions were normal for the process.
- 2) The permittee shall maintain records of any equipment malfunctions that results in an exceedance of this requirement.
- 3) The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment B or an equivalent may be used)

**Reporting:**

- 1) The permittee shall report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined using the Method 9 test that the emission unit(s) exceeded the opacity limit.
- 2) Reports of any deviations from monitoring, record keeping and reporting requirements of this permit condition shall be submitted semiannually, in the semi-annual monitoring report and annual compliance certification, as required by Section V of this permit.

### III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

<b>EU0101 through EU0105 – Boilers</b>			
Emission Unit	Description	Manufacturer/ Model #	2009 EIQ Reference #
EU0101	Boiler 1 – Wall Fired, 230 MMBtu/hr (constructed 1984); Building 6 Fuel: Natural Gas/Bituminous Coal Air Pollution Control – Electrostatic Precipitator	Babcock & Wilcox	B01
EU0102	Boiler 5 – Wall Fired, 240 MMBtu/hr (constructed 1984); Building 6 Fuel: Natural Gas, Biogas & Bituminous Coal Air Pollution Control – Electrostatic Precipitator	Babcock & Wilcox	B05
EU0103	Boiler 7 – Cyclone, 232.6 MMBtu/hr (constructed 1966); Building 6 Fuel: Natural Gas	Babcock & Wilcox	B07
EU0104	Boiler 8 – 99.5 MMBtu/hr (constructed 1988); Building 6 Fuel: Natural Gas, Biogas & Bituminous Coal Air Pollution Control – Electrostatic Precipitator	Zern	B08
EU0105	Boiler 9 – 99.5 MMBtu/hr (constructed 1988); Building 6 Fuel: Natural Gas, Biogas & Bituminous Coal Air Pollution Control – Electrostatic Precipitator	Zern	B09

**Permit Condition EU0101-001 through EU0105-001**  
**10 CSR 10-5.570**  
**Control of Sulfur Emissions from Stationary Boilers**

*The permittee shall be in compliance with this rule no later than December 31, 2010.*

**Emission Limitation:**

No brewery shall cause or allow the emission of SO<sub>2</sub> into the atmosphere exceeding three thousand fifty (3,050) tons SO<sub>2</sub> in any twelve (12)-month rolling period from any installation with applicable units. SO<sub>2</sub> emission from all applicable units shall be determined by compliance with subparagraph (3)(C)2.D. of 10 CSR 10-5.570. [10 CSR 10-5.570(3)(A)2.]

**Measurements:**

Measurement for Multi-unit and Multi-fuel installations. For sources not controlling SO<sub>2</sub> emissions by flue gas desulfurization equipment or by sorbent injection, the following alternate compliance method may be used: [10 CSR 10-5.570(3)(C)]

- 1) SO<sub>2</sub> emission rates for a single boiler that burns different fuels. The owner or operator of an affected facility shall determine the SO<sub>2</sub> emission rate of a large boiler which burns multiple fuels separately, according to the following formula: [10 CSR 10-5.570(3)(C)1.]

$$E_s = \frac{\sum_{i=1}^q (Ka_q) + \sum_{i=1}^r (Kb_r) + \sum_{i=1}^s (Kc_s)}{H_T}$$

Where:

- $E_s$  = unit SO<sub>2</sub> emissions in lb per MMBtu heat input;
- $Ka$  = solid fuel sample monthly composite SO<sub>2</sub> emission rate in lbs;
- $Kb$  = liquid fuel sample monthly composite SO<sub>2</sub> emission rate in lbs;
- $Kc$  = gaseous fuel sample monthly composite SO<sub>2</sub> emission rate in lbs;
- $q$  = number of different liquid fuels used including the number of batches of coal;
- $r$  = number of different liquid fuels used;
- $s$  = number of different gaseous fuels used; and
- $H_T$  = total heat content for all fuels in any month period.

- 2) Averaging SO<sub>2</sub> emissions among different boilers.
  - a) To meet the requirements of paragraphs (3)(A)1. and (3)(A)2. of this rule, if there is more than one (1) existing boiler located at a installation, compliance may be demonstrated by emission averaging according to the procedures in this paragraph. [10 CSR 10-5.570(3)(C)2.A.]
  - b) For a group of two (2) or more existing boilers that each vent to a separate or common stack, SO<sub>2</sub> emissions may be averaged to demonstrate compliance with the limits in paragraphs (3)(A)1. and (3)(A)2 of this rule. [10 CSR 10-5.570(3)(C)2.B.]
  - c) Compliance with the limit in paragraph (3)(A)2. of this rule must be demonstrated on a twelve (12)-month rolling total. The first period begins on the compliance date. For each twelve (12)-month period, the following equation must be used to calculate the twelve (12)-month rolling total weighted emission rate using the actual heat capacity for each existing boiler participating in the emission averaging option. [10 CSR 10-5.570(3)(C)2.D.]

$$Avg\ SO_2\ Emissions = \frac{\sum_{i=1}^q (Ka_q)_n + \sum_{i=1}^r (Kb_r)_n + \sum_{i=1}^s (Kc_s)_n}{1}$$

Where:

- Avg Weighted Emissions = twelve (12)-month total weighted emission level for SO<sub>2</sub>, in units of tons of SO<sub>2</sub>;
- $Ka$  = solid fuel monthly SO<sub>2</sub> emissions in tons based on material/mass balance as the source of the emission factor;
- Where

$$Ka = \frac{Sulfur\%}{100} \times \frac{64.064}{32.065} \times tons\ fuel\ burned$$

- $Kb$  = liquid fuel monthly SO<sub>2</sub> emissions in tons based on similar material/mass balance calculations as  $Ka$  as the source of the emission factor;
- $Kc$  = gaseous fuel monthly SO<sub>2</sub> emissions in tons based on similar material/mass balance calculations as  $Ka$  as the source of the emission factor;
- $n$  = number of boilers participating in the emissions averaging option;

q = number of different liquid fuels used including the number of batches of coal;  
r = number of different liquid fuels used;  
s = number of different gaseous fuels used

**Monitoring:**

Owners or operators of an industrial, commercial, or institutional boiler; or process heater subject to this rule shall comply with an alternate monitoring procedure or monitoring plan approved by the Director and the U.S. Environmental Protection Agency (EPA). [10 CSR 10-5.570(3)(D)2]

**Recordkeeping:**

The owner or operator subject to this rule shall maintain all records necessary to demonstrate compliance with this rule for a period of five (5) years at the plant at which the unit is located. Daily records, along with the twelve (12)-month rolling tonnage or twelve (12)-month rolling average, shall be made available no later than one (1) month following any calendar month. The records shall be made available to the Director upon request. The owner or operator shall maintain records of the following information for each day the unit is operated:

- 1) The identification number of each unit and the name and address of the plant where the unit is located for each unit subject to this rule;
- 2) The calendar date of record;
- 3) The number of hours the unit is operated each day including start-ups, shutdowns, malfunctions, and the type and duration of maintenance and repair;
- 4) The date and results of each emissions inspection;
- 5) A summary of any emissions corrective maintenance taken;
- 6) The results of all compliance tests;
- 7) The total heat input for each fuel used per emissions unit on a monthly basis;
- 8) The amount of each fuel consumed per emissions unit on a monthly basis;
- 9) The average heat content for each fuel used per emissions unit on a monthly basis;
- 10) The average percent sulfur for each fuel used per emissions unit on a monthly basis;
- 11) The monthly emission rate in tons of SO<sub>2</sub> for those units complying with the limit in paragraph (3)(A)2. of this rule The twelve (12)-month rolling average must be made available upon request for the inspector to review no later than one (1) month following any calendar month; and
- 12) Any other reports deemed necessary by the Director.

**Reporting:**

The owner or operator subject to this rule shall—

- 1) Submit the calculation and record keeping procedure based upon correlations with ASTM and 40 CFR Part 60, Appendix A operating parameters, promulgated as of December 23, 1971., and incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N. Capitol Street NW, Washington, DC 20401. This rule does not incorporate any subsequent amendments or additions;
- 2) Submit an annual report to the Director by February 15 following the end of the initial compliance period and by February 15 for each year thereafter unless the affected unit is subject to an NSPS. The annual report shall document for each affected unit, the tons of SO<sub>2</sub> emitted during the previous twelve (12)-month period or the twelve (12)-month rolling total starting the first full year after the compliance period;
- 3) By February 15 of every year following the initial compliance period, submit monthly reports for the previous calendar year unless the affected unit is subject to an NSPS. The monthly reports shall document the following information for each affected unit:

- a) For units without CEMS, the total number of tons of each solid fuel burned including different vendor supplied batches of coal, volume of each gaseous fuel and/or volume of each liquid fuel; average percent sulfur content of each solid fuel including different vendor supplied batches of coal, each liquid fuel and/or each gaseous fuel; and each solid fuel including different vendor supplied batches of coal, each liquid fuel and/or each gaseous fuel average heat content in Btu per lb; and
- 4) Excess emissions: Units not maintaining a CEMS, shall submit a written report of excess emissions according to 10 CSR 10-6.260, subsection (4)(A) regardless of whether 10 CSR 10-6.260 applies, unless the affected unit is subject to an NSPS.

**Permit Condition EU0101-002 through EU0105-002**

**10 CSR 10-6.260**

**Restriction of Emission of Sulfur Compounds**

**Emission Limitation:**

- 1) During the months of October, November, December, January, February and March of every year, no person shall burn or permit the burning of any coal containing more than two percent (2%) sulfur or of any fuel oil containing more than two percent (2%) sulfur in any installation having a capacity of less than two thousand (2000) million BTUs per hour. Otherwise, no person shall burn or permit the burning of any coal or fuel oil containing more than four percent (4%) sulfur in any installation having a capacity of less than two thousand (2000) million BTUs per hour.
- 2) The permittee shall not cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010.

**Monitoring:**

Up to fifteen loads of coal each month from each source of coal shall be sampled and composited into one sample for each source of coal for analysis. Weighted average percent sulfur concentrations in coal shall be calculated monthly for the installation (i.e. Boilers 1, 5, 8, and 9 combined). The permittee shall follow the accepted coal sampling and analysis procedures document submitted by the permittee on June 10, 1998.

**Recordkeeping:**

The permittee shall maintain an accurate record of the sulfur content of coal.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certifications to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

**Permit Condition EU0101-003 through EU0105-003**

**10 CSR 10-5.030**

**Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating**

**Emission Limitation:**

The permittee shall not emit particulate matter in excess of the following amounts:

- 1) Boiler 1 -- 0.10 lb PM/MMBtu
- 2) Boiler 5 -- 0.20 lb PM/MMBtu
- 3) Boiler 7 -- 0.20 lb PM/MMBtu
- 4) Boiler 8 -- 0.10 lb PM/MMBtu
- 5) Boiler 9 -- 0.10 lb PM/MMBtu

**Monitoring:**

- 1) The permittee shall operate the electrostatic precipitator (ESP) for Boiler Nos. 1, 5, 8 and 9 when the emission unit(s) is in operation.  
Annually, the permittee shall conduct the following inspections:
  - a) As part of the ESP preventative maintenance plan, inspect the rapper operation, T-R set operation and ash removal system. If abnormal conditions are identified, implement corrective action as soon as practicable.
  - b) As part of the emission unit overhaul maintenance plan, inspect the alignment of the plate electrodes, the collection surface (for fouling), the mechanical condition of the T-R set, and the internal structural components. If abnormal conditions are identified, implement corrective action as soon as practicable.
- 2) The permittee shall determine initial compliance with the PM emission rate (lb/MMBtu) of an emissions unit(s) using U.S. EPA Test Method 5.
- 3) The permittee shall monitor the total fuel consumed on a monthly basis.
- 4) The permittee shall monitor the total heat input for each emissions unit on a monthly basis.

**Recordkeeping:**

- 1) The permittee shall maintain a written or electronic copy of all inspections associated with Monitoring Condition 1.
- 2) The permittee shall maintain a record of the initial stack testing and any other subsequent testing or test information for particulate matter required from this rule. The permittee shall also maintain PM emission rate determinations conducted in accordance with U.S. EPA Test Method 5.
- 3) The permittee shall maintain records of any monitoring or air pollution control equipment malfunctions.

**Reporting**

- 1) Two copies of written report of the initial compliance test results shall be submitted to the City of St. Louis Air Pollution Control Division and to the Air Pollution Control Program's Enforcement Section within 60 days of completion of any required testing. The report must include legible copies of the raw data sheets, analytical instrument laboratory data, and complete sample calculations from the required EPA Method for at least one sample run. The test report is fully account for all operational and emission parameters addressed both in the permit conditions as well as in any other applicable state or federal rules or regulations.
- 2) The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit(s) exceeded the emission limitation(s).

**Permit Condition EU0101-004 through EU0103-004**  
**10 CSR 10-5.510**  
**Control of Emissions of Nitrogen Oxides**

**Emission Limitation:**

No owner or operator of a boiler with a maximum rated heat input capacity of one hundred (100) million British thermal units (MMBtu) per hour or greater shall allow the unit to emit Nitrogen Oxides (NO<sub>x</sub>) in excess of the emission rates specified below as measured pursuant to Section (5) of 10 CSR 10-5.510.

Maximum Allowable Emission Rates  
 (Pounds of NO<sub>x</sub> per MMBtu)

Unit Firing Configuration	Fuel Type		
	Gaseous Fuel	Coal – Dry Bottom	Distillate Oil
EU0101 – Boiler 1, Wall Fired	0.2	0.5	NA
EU0102 – Boiler 5, Wall Fired	0.2	0.5	NA
EU0103 – Boiler 7, Cyclone	0.5	NA	NA

**Monitoring:**

- 1) An initial compliance test shall be conducted prior to May 1, 2002, on all affected units using the test methods specified in 10 CSR 10-5.510(5). After the initial stack test, stack tests shall be required every three years.
- 2) The permittee shall monitor the total fuel consumed on a monthly basis.
- 3) The permittee shall monitor the total heat input for each emissions unit on a monthly basis.

NOTE: Compliance may be based on the weighted average of actual NO<sub>x</sub> emissions from the units on a monthly basis. The averaged emissions rate for the units must be equal to or less than the allowable emissions rate for the units as defined in this rule. An owner or operator who elects to comply with an average NO<sub>x</sub> emission limit shall use the following equation to determine compliance:

$$\sum (ER_{Actual} \times HI_{Actual}) \leq \sum (ER_{Allowable} \times HI_{Actual})$$

Where:

- ER<sub>Actual</sub> = actual NO<sub>x</sub> emission rate from each unit;
- HI<sub>Actual</sub> = actual monthly heat input from each unit; and
- ER<sub>Allowable</sub> = allowable NO<sub>x</sub> emission rate from each unit

NO<sub>x</sub> emission rates shall be calculated from actual data established through stack testing at several loads.

**Recordkeeping:**

The permittee shall maintain records of the following:

- 1) Total fuel consumed on a monthly basis;
- 2) The total heat input of each emission unit on a monthly basis; and
- 3) Reports of all stack testing conducted to meet the requirements of this rule.

**Reporting:**

The permittee shall comply with the following reporting requirements:

- 1) Submit for each NO<sub>x</sub> emissions unit which uses stack tests to demonstrate compliance, an annual report identifying monthly fuel usage and monthly total heat input,
- 2) Two copies of a written report of the performance test results shall be submitted to the City of St Louis Air Pollution Control and to the Director of the Air Pollution Control Program within 60 days of completion of any required testing. The report must include legible copies of the raw data sheets, analytical instrument laboratory data, and complete sample calculations from the required EPA Method for at least one sample run. The test report is to fully account for all operational and emission parameters addressed both in the permit conditions as well as in any other applicable state or federal rules or regulations.

**Permit Condition EU0104-004 through EU0105-004**

**10 CSR 10-5.510**

**Control of Emissions of Nitrogen Oxides**

**Emission Limitation:**

- 1) An owner or operator of a boiler with a maximum rated heat input capacity equal to or greater than fifty (50) MMBtu/hr but less than one hundred (100) MMBtu/hr shall complete an annual adjustment or tune up on the combustion process. This adjustment or tune up shall include at a minimum the following items:
  - a) Inspection, adjustment, cleaning or replacement of fuel burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer;
  - b) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of nitrogen oxides (NO<sub>x</sub>) and, to the extent practicable, minimize emissions of carbon monoxide; and
  - c) Inspection of the air to fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.
- 2) The permittee shall be in compliance with this rule no later than May 1, 2002.

**Monitoring/Record keeping:**

The permittee shall maintain records of the annual adjustments or tune ups and associated actions resulting from the adjustments/tune-ups and any action resulting from these adjustments/tune-ups.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certifications to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

**Permit Condition EU0104-005 through EU0105-005**

**10 CSR 10-6.060**

**Construction Permits Required**

**City of St. Louis APCD Permit No. 07-07-010**

*Permit No. 07-07-010 (issued December 7, 2007) supercedes Permit No. 95-10-130 and allows Anheuser-Busch St. Louis Brewery (ABSLB) to combust biogas, natural gas and solid fuels comprised of activated carbon and biomass in any combination in boilers 8 and 9.*

**Emission Limitation:**

- 1) Emissions from Boiler 8 (EU0104), Boiler 9 (EU0105) and Biogas Flare (EU0906) must not exceed the values in the maximum permitted emission rate listed in the table below:  
[Permit No. 07-07-010]

Pollutant	Maximum Permitted Emission Rate Tons Per Year
Sulfur Oxides (SO <sub>x</sub> )	1,276
Nitrogen Oxides (NO <sub>x</sub> )	308
Particulate Matter Less Than Ten Microns (PM <sub>10</sub> )	17
Carbon Monoxide (CO)	279
Volatile Organic Compounds (VOC)	40

- 2) The heat input of each boiler shall not exceed 99 MMBtu per hour.  
[Permit No. 07-07-010, Section II: Limitation A.]
- 3) Boiler 8 and Boiler 9 shall be limited to the following fuels: natural gas, biogas, coal, activated carbon and biomass. Biomass is defined as woody plant material, wood residue, grain and/or spent grain material from fermentation processes for the purpose of this permit. These fuels may be combusted singly or in any combination provided that the combined emissions from Boiler 8, Boiler 9 and the biomass gas flare do not exceed the maximum permitted rate, in tons per year, from the above table in any calendar year. [Permit No. 07-07-010, Section II: Limitation B.]

**Monitoring**

- 1) Boiler 8 and Boiler 9 shall be operated and maintained using the principles of Good Engineering Practice considering the corporate experience with the type of equipment.  
[Permit No. 07-07-010, Section III: Condition A.]
- 2) The prior use of the activated carbon combusted in Boiler 8 and Boiler 9 is limited to filtration of water that is in compliance with the safe drinking Water Act.  
[Permit No. 07-07-010, Section III: Condition B.]
- 3) The hydrogen sulfide content of biogas shall be measured and recorded daily.  
[Permit No. 07-07-010, Section III: Condition C.]
- 4) The Anheuser-Busch, Inc. St. Louis Brewery shall develop and implement a sampling protocol for the solid fuels combusted in Boiler 8 and Boiler 9. This protocol shall be similar in nature and frequency to the existing protocol for coal. This protocol shall be submitted to the City of St. Louis Air Pollution Control Program for approval prior to combustion of biomass or activated carbon fuels. [See attachment G]  
[Permit No. 07-07-010, Section III: Condition D.]
- a) Measurement of sulfur content of the solid fuels shall be performed. These values shall be used to determine the sulfur dioxide emission from the combustion of those fuels.
- 5) The values in AP-42 Section 1.1 *Bituminous and Subbituminous Coal Combustion* and AP-42 Section 1.6 *Wood Residue Combustion in Boilers* shall be used to determine the emission from the combustion of the solid fuels. The values used for the emissions shall be calculated using weight percentage of the composition of the solid fuels. If the permittee performs additional analysis, in addition to the sulfur requirement above, of the solid fuel those values may be used to determine the emission from the combustion of the fuel. [Permit No. 07-07-010, Section III: Condition E.]

- 6) If the Anheuser-Busch, Inc. St. Louis Brewery determines the combustion of only biomass is feasible, then emissions test of Boiler 8 or Boiler 9 while combusting only biomass be performed within 180 days of beginning combustion of only biomass. The Anheuser-Busch, Inc. St. Louis Brewery may use the results of the emissions testing to calculate emissions from Boiler 8 and Boiler 9 upon submission to and acceptance of the test by the City of St. Louis Air Pollution Control Program. [Permit No. 07-07-010, Section III: Condition F.]

**Record keeping:**

- 1) Daily records shall be kept describing the quantity of biogas produced and whether it is combusted in the boilers or in the BERS flare. [Permit No. 07-07-010, Section IV: Recordkeeping A.]
- 2) Monthly records shall be kept of all fuels, other than biogas, combusted in the boilers. [Permit No. 07-07-010, Section IV: Recordkeeping B.]
- 3) Records of the daily hydrogen sulfide determination shall be kept. [Permit No. 07-07-010, Section IV: Recordkeeping C.]
- 4) Records of the sulfur determination for the solid fuels combusted in Boiler 8 and Boiler 9 shall be maintained. [Permit No. 07-07-010, Section IV: Recordkeeping D.]
- 5) Monthly records of the estimated emissions from the boilers and the BERS flare shall be kept. These records shall include the annual totals. [Permit No. 07-07-010, Section IV: Recordkeeping E.]
  - a) The difference between the actual post change CO emissions and the projected emission shall be calculated, maintained and recorded for a period of 5 calendar years following the resumption of normal operations as required by 40 CFR 52.21(r)(6)(iii).
- 6) The Anheuser-Busch, Inc. St. Louis Brewery shall keep records of maintenance performed on Boiler 8 and Boiler 9. [Permit No. 07-07-010, Section IV: Recordkeeping F.]
- 7) All records shall be kept for a minimum of 60 months and shall be made available to the City of St. Louis Air Pollution Control Program upon request. [Permit No. 07-07-010, Section IV: Recordkeeping G.]

**Reporting:**

- 1) Any exceedance of any terms and conditions of Permit 07-07-010 shall be reported to the City of St. Louis Air Pollution Control Program, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, in writing no later than twenty (20) days after discovering the exceedance.
- 2) The Anheuser-Busch, Inc. St. Louis Brewery shall submit an annual report to the City of St. Louis Air Pollution Control Program, 1520 Market Street, Room 4058, St. Louis, MO 63103, for the five calendar year period as outlined in Section IV Recordkeeping E. 1 of Permit No 07-07-010 within 60 days after the end of such year. The report shall contain the following: the name, title and contact information of the responsible official, the annual CO emissions and the difference between the actual and projected emissions and any information the permittee wishes to include such as but not limited to alternate contact information. [Permit No. 07-07-010, Section V: Reporting C.]
- 3) The Anheuser-Busch, Inc. St. Louis Brewery shall submit an annual report to the Environmental Protection Agency Administrator if the annual CO emissions, in tons per year, exceed the baseline actual emission by a significant amount (as defined in paragraph (b)(23) of 40 CFR 52.21) and if such emissions differ from the preconstruction projection as documented by Section IV Recordkeeping E.1 of Construction Permit 07-07-010. Such report shall be submitted within 60 days after the end of such year. 40 CFR 52.21(r)(6)(v). [Permit No. 07-07-010, Section V: Reporting D.]

<b>EU0201 – Standby Power Generator; South of Building 181</b>			
Emission Unit	Description	Manufacturer/ Model #	2009 EIQ Reference #
EU0201	Standby Power Generator; South of Building 181 2000 EkW (6.82 mmBtu/hr), No. 2 Diesel Fuel	Caterpillar Model 3516B	CP404

**Permit Condition EU0201-001**  
**10 CSR 10-6.060**  
**Construction Permits Required**  
**City of St. Louis APCD Permit No. 96-07-058A (Standby Power Generator)**  
**Amendment to Permit No. 96-07-058 (dated Oct. 10, 2002)**

**Emission Limitation:**

- 1) Operation of the emergency generator, for maintenance and emergency use, shall not exceed 200 hours in any consecutive twelve-month period.
- 2) Only No. 2 Diesel Fuel shall be used.

**Monitoring/Recordkeeping:**

- 1) The permittee shall maintain an accurate record of hours of operation on a monthly and consecutive 12-months basis.
- 2) Documentation supporting the fuel used is No. 2 diesel fuel.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit exceeded the emission limitation (s).

**Permit Condition EU0201-002**  
**10 CSR 10-6.260**  
**Restriction of Emission of Sulfur Compounds <sup>2</sup>**

**Emission Limitation:**

- 1) Emissions from this source operation shall not contain more than two thousand parts per million by volume (2000 ppmv) of sulfur dioxide or more than seventy milligrams (70 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three (3) hour time period.
- 2) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards.

**Monitoring/Recordkeeping:**

Documentation supporting the fuel used is No. 2 diesel fuel.

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<sup>2</sup> 10 CSR 10-6.260(3)(B) is state-only requirement.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certifications to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

<b>EU0202 – Emergency Diesel Generator for the EMCON Room</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/ Model #</b>	<b>2009 EIQ Reference #</b>
EU0202	Emergency Diesel Generator, EMCON Room	Magnetek Century Electric, Model RDS 500	CP406

**Permit Condition EU0202-001**

**City of St. Louis Air Pollution Control Division, Permit No. SR00.018PM (Source Registration Permit)**

Enforceable by the City of St. Louis Air Pollution Control Division only.

**Emission Limitation:**

- 1) The hours of operation for the emergency generator shall not exceed 200 hours in any consecutive twelve-month period.
- 2) The emergency generator shall only burn fuel oil number two.
- 3) Visible opacity from the emergency generator shall be limited to less than twenty percent (20%).

**Monitoring/Recordkeeping:**

- 1) The permittee shall keep monthly records of hours of operation.
- 2) Documentation supporting the fuel used is fuel oil number two.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit(s) exceeded the emission limitation(s).

**Permit Condition EU0202-002**

**10 CSR 10-6.260**

**Restriction of Emission of Sulfur Compounds <sup>3</sup>**

**Emission Limitation:**

- 1) Emissions from this source operation shall not contain more than two thousand parts per million by volume (2000 ppmv) of sulfur dioxide or more than seventy milligrams (70 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three (3) hour time period.

<sup>3</sup> 10 CSR 10-6.260(3)(B) is state-only requirement.

- 2) No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards.

**Monitoring**

Documentation supporting the fuel used is No. 2 fuel oil.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

<b>EU0301 – Solvent Clean-up Hood</b>		
<b>Emission Unit</b>	<b>Description</b>	<b>2009 EIQ Reference #</b>
EU0301	Solvent Clean-up Hood; Building 137 (Bevo)	GN254

<p style="text-align: center;"><b>Permit Condition EU0301-001</b> <b>10 CSR 10-6.060</b> <b>Construction Permits Required</b> <b>City of St. Louis APCD Permit No. 03-04-005</b></p>
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**Emission Limitation:**

Solvent throughput shall not exceed 500 gallons in any consecutive twelve-month period.

**Monitoring/Recordkeeping:**

Monthly throughput of solvent shall be recorded and a consecutive twelve-month total shall be calculated at this time.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit exceeded the emission limitation.

<b>EU0401 through EU0403, EU0410 through EU0412 and EU0425 - Grain Transfer Systems (6)</b> The fabric filter receivers are inherent parts of the processes			
Emission Unit	Description	Manufacturer/ Model #	2009 EIQ Reference #
EU0401	Malt Filter/Receiver, Grain Transfer 1; Building 59, 5th Floor	Fabric Filter - Low Temperature-Buhler Miag ASFA 44/6 B-225	GT300
EU0402	Rice/Corn/Special Malt Filter/Receiver, Grain Transfer 2; Building 59, 5th Floor	Fabric Filter - Low Temperature-Buhler Miag ASFA 44/6 B-225	
EU0403	Rice/Corn/Malt Filter/Receiver, Grain Transfer 3; Building 259, 3rd Floor	Fabric Filter - Low Temperature-Buhler Miag ASFA 44/6 B-225	
EU0410	Malt Milling Filter/Receiver, Grain Transfer 5; Building 237, Roof	Fabric Filter - Low Temperature-Buhler Miag ASFA 36/6 B-25	
EU0411	Rice/Corn/Special Malt Milling Filter/Receiver, Grain Transfer 6; Building 237, Roof	Fabric Filter - Low Temperature-Buhler Miag 36/6 B-25	
EU0412	Rice/Corn/Malt Filter/Receiver, Grain Transfer 7; Building 237, Roof	Fabric Filter - Low Temperature-Buhler Miag 36/6 B-25	
EU0425	Malt Dust Transfer Filter/Receiver; Building 48, Roof	Fabric Filter - Low Temperature-Buhler Miag RPHV-4/3	

<b>EU0405 through EU0409 - Grain Cleaners (5)</b>			
Emission Unit	Description		2009 EIQ Reference #
EU0405	Rice Cleaner 1 - Building 59, 2nd Floor		GT300
EU0406	Malt Cleaner 2 - Building 59, 3rd Floor		
EU0407	Malt Cleaner 3 - Building 59, 3rd Floor		
EU0408	Rice/Corn/Malt Cleaner 4 - Building 259, 2nd Floor		
EU0409	Rice/Corn/Malt Cleaner 5 - Building 259, 2nd Floor		

<b>EU0404, EU0414 and EU0415 - Emergency Truck Loadout &amp; Hopper/Feeders</b>			
Emission Unit	Description		2009 EIQ Reference #
EU0404	Emergency Truck Loadout; Building 48		GT34
EU0414	Hopper/Feeder - Malt Line from Cleaners 2 & 3; Buildings 48 and 59		GT300
EU0415	Hopper/Feeder - Rice/Grits from Cleaners 4 & 5; Building 259, 2nd Floor		

<b>EU0413 and EU0417 through EU0424 - Milling &amp; Weighing System</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/ Model #</b>	<b>2009 EIQ Reference #</b>
EU0413	Malt Surge Bins (2), Grain Transfer 5 Building 237, Floors 3, 5, 7 and 8	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8A	GT300
EU0417	Malt Distribution Bin, Grain Transfer 5 Building 237, Floors 3, 5, 7 and 8	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8A	
EU0418	Malt Mills (6) Building 237, Floors 3, 5, 7 and 8	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8A	
EU0419	Scale Hoppers (2) Building 237, Floors 3, 5, 7 and 8	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8A	
EU0420	Malt Surge Bins (2), Grain Transfer 7 Building 237, Floors 3, 5, 7 and 8	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8A	
EU0421	Rice Surge Bin, Grain Transfer 6 Building 237, Floors 2, 4, 7 and 8	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8A	
EU0422	Corn Surge Bin, Grain Transfer 6 Building 237, Floors 2, 4, 7 and 8	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8A	
EU0423	Rice Mills (4), Grain Transfer 6 Building 237, Floors 2, 4, 7 and 8	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8A	
EU0424	Scale Hoppers (2), Grain Transfer 6 Building 237, Floors 2, 4, 7 and 8	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8A	

**Permit Condition EU0401-001 through EU0403-001**  
**Permit Condition EU0410-001 through EU0412-001 and EU0425-001**  
**Permit Condition EU0405-001 through EU0409-001**  
**Permit Condition EU0404-001, EU0414-001 and EU0415-001**  
**Permit Condition EU0413-001, EU0417-001 through EU0424-001**  
  
**10 CSR 10-6.060**  
**Construction Permits Required**  
**City of St. Louis Air Pollution Control Division Grain Handling Permit, Permit No. 04-11-020,**  
**Dated January 26, 2004**

**Emission Limitation:**

The total throughput of all grain (malt, rice, corn, and other adjuncts) transferred, cleaned, and weighed in the grain cleaning, milling, and weighing system shall be limited to 1,478,250 tons facility-wide in any consecutive twelve (12) month period.

**Operational Limitation/Equipment Specifications:**

The permittee shall only operate the grain cleaning, milling and weighing system while the fabric filters controlling particulate emissions are in operation.

**Monitoring/Recordkeeping:**

The monthly throughput of grain (malt, rice, corn, and other adjuncts) that is processed in the grain cleaning, milling, and weighing system shall be recorded and totaled on a consecutive twelve (12) month basis as determined by the scale hoppers.

**Reporting:**

The permittee shall report emissions from all sources listed in this permit on their Emission Inventory Questionnaire.

**Permit Condition EU0401-002 through EU0403-002,  
Permit Condition EU0410-002 through EU0412-002 and  
Permit Condition EU0425-002**

**10 CSR 10-6.400**

**Restriction of Emission of Particulate Matter from Industrial Processes**

**Emission Limitation:**

- 1) The permittee shall not emit particulate matter in excess of:
  - a) 47.42 lbs/hr from any of EU0401, EU0403, EU0410, EU0412, and EU0425; and
  - b) 41.00 lbs/hr from any of EU0402 and EU0411.
- 2) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Recordkeeping/Reporting:**

Not required (See Statement of Basis – filter receivers are an inherent part of the process).

**Permit Condition EU0405-002 through EU0409-002**

**10 CSR 10-6.400**

**Restriction of Emission of Particulate Matter from Industrial Processes**

**Emission Limitation:**

- 1) The permittee shall not emit particulate matter in excess of 41.00 lbs/hr from any of EU0405 through EU0409.
- 2) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Recordkeeping/Reporting:**

Not required (See Statement of Basis).

**Permit Condition EU0404-002, EU0414-002 and EU0415-002**

**10 CSR 10-6.400**

**Restriction of Emission of Particulate Matter from Industrial Processes**

**Emission Limitation:**

- 1) The permittee shall not emit particulate matter in excess of 47.42 lbs/hr from any of EU0404, EU0414 or EU0415.
- 2) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Recordkeeping/Reporting:**

Not required (See Statement of Basis).

**Permit Condition EU0413-002, EU0417-002 through EU0424-002**

**10 CSR 10-6.400**

**Restriction of Emission of Particulate Matter from Industrial Processes**

**Emission Limitation:**

- 1) The permittee shall not emit particulate matter in excess of
  - a) 47.42 lbs/hr from any of EU0413 or EU0417-EU0420
  - b) 41.00 lbs/hr from any of EU0421-EU0424
- 2) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Recordkeeping/Reporting:**

Not required (See Statement of Basis – filter receivers are an inherent part of the process)

**EU0416 – Hopper/Feeder from Cleaner 1**

Emission Unit	Description	2009 EIQ Reference #
EU0416	Hopper/Feeder from Cleaner 1; Buildings 48 and 59	GT300

**Permit Condition EU0416-001**

**10 CSR 10-6.400**

**Restriction of Emission of Particulate Matter from Industrial Processes**

**Emission Limitation:**

- 1) The permittee shall not emit particulate matter in excess of 41.00 lbs/hr from this unit.
- 2) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Recordkeeping/Reporting:**

Not required (See Statement of Basis).

<b>EU0501 through EU0512 - Grain Unloading Systems (3)</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/ Model #</b>	<b>2009 EIQ Reference #</b>
EU0501	Grain Unloading 1; Building 221, Roof	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/5B-225	GU300
EU0502	Grain Unloading 2; Building 221, Roof	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8 B-225	
EU0503	Grain Unloading 3; Building 221, Roof	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8 B-225	
EU0504	Pressure Vessels, Grain Unloading 1; Building 221, Floors 1 and 2M	~	
EU0505	Pressure Vessels-Malt, Grain Unloading 2; Building 221, Floors 1 and 2M	~	
EU0506	Filter/Receiver 2B, Grain Unloading 2; Building 48, Roof	Fabric Filter - Low Temperature-Buhler Miag ASFA 36/8 B-25	
EU0507	Filter/Receiver 3B, Grain Unloading 3 Building 48, Roof	Fabric Filter - Low Temperature-Buhler Miag ASFA 64/8 B-225	
EU0508	Filter/Receiver 1B, Grain Unloading 1; Building 48, Roof	Fabric Filter - Low Temperature-Buhler Miag ASFA 36/8 B-25	
EU0509	Filter/Receiver 2C, Grain Unloading 2; Building 48, Roof	Fabric Filter - Low Temperature-Buhler Miag ASFA 36/8 B-25	
EU0510	Elevator C & D Conveyor, Grain Unloading 3; Buildings 48 and 59	~	
EU0511	Elevator H Drag Conveyor, Grain Unloading 2 Building 39A, Roof	~	
EU0512	Elevator C Drag Conveyor, Grain Unloading 1; Buildings 48 and 59	~	

**Permit Condition EU0501-001 through EU0512-001**  
**10 CSR 10-6.060**  
**Construction Permits Required**  
**City of St. Louis APCD Grain Handling Permit, Permit No. 04-11-020 Dated January 26, 2004**

**Emission Limitation:**

The total throughput of all grain (malt, rice, corn, and other adjuncts) unloaded through the grain unloading system shall be limited to 1,379,700 tons facility-wide in any consecutive twelve (12) month period.

**Operational Limitation/Equipment Specifications:**

The permittee shall only operate the grain unloading system with the fabric filters controlling particulate emissions are in operation.

**Monitoring/Recordkeeping:**

The monthly throughput of grain (malt, rice, corn, and other adjuncts) that is processed in the grain cleaning, milling, and weighing system shall be recorded and totaled on a consecutive twelve (12) month basis as determined by the scale hoppers.

**Reporting:**

The permittee shall report emissions from all sources listed in this permit on their Emission Inventory Questionnaire.

**Permit Condition EU0501-002 through EU0512-002**  
**10 CSR 10-6.400**  
**Restriction of Emission of Particulate Matter from Industrial Processes**

**Emission Limitation:**

- 1) The permittee shall not emit particulate matter in excess of 45.03 lbs/hr from any of EU0501 through EU0512.
- 2) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Recordkeeping/Reporting:**

Not required (See Statement of Basis – filter receivers are an inherent part of the process).

<b>EU0601 through EU0603, EU0704 through EU0711, and EU0808 Beer Production Units</b>		
Emission Unit	Description	2009 EIQ Reference #
EU0601	Draft Line (Line 93 Fillers – Kegs)	PK240
EU0602	Lines 60, 66, 67, 68 & 69 Fillers - Cans	PK241
EU0603	Lines 33, 34, 36, 37, 38, 39 & 40 Fillers - Bottles (NR)	PK242
EU0704	Schoene Receivers-Stockhouse 19	SH425
EU0705	Schoene Tanks-Stockhouse 19	SH426
EU0706	Schoene Beer Balance Tanks-Stockhouse 19	SH427
EU0707	K-Filters-Stockhouse 19	SH429
EU0708	Filter Beer Balance Tanks-Stockhouse 19	SH430
EU0709	Finishing Tanks-Stockhouse 19	SH431
EU0710	Blowback Tanks-Stockhouse 19	SH432
EU0711	Spent D.E. Slurry Tank, Stockhouse 19	SH433
EU0808	Carbon Dioxide (CO <sub>2</sub> ) Regeneration System 3-Stockhouse 17, 3rd Floor	UT410

**Permit Condition EU0601–001 through EU0603-001,  
Permit Condition EU0704-001 through EU0711-001, and  
Permit Condition EU0808-001**

**10 CSR 10-6.060  
Construction Permits Required  
City of St. Louis Air Pollution Control Division Permit No. 09-12-025**

*Permit No. 09-12-025 shall supercede the limitations, conditions, and recordkeeping requirements contained in Permit No. 04-06-012.*

**Emission Limitation:**

- 1) The Filling Operation shall be limited to two million barrels (MMbbls) packaged per month, the filling operations as a whole shall be limited by the following provisions:
  - a) Total filling production (cans, bottles, and draft) shall be limited to 17.25 million barrels of beer in any consecutive twelve-month period.
  - b) Can and Bottle production shall be limited to 15.75 million barrels in any consecutive twelve-month period. If draft production exceeds 1.5 million barrels, can and bottle production shall be further limited by the following equation:

$$\text{Can/Bottle Production Limit} = (17.25 \text{ MMbbls} - \text{draft production MMbbls})$$

- 2) The Beer Finishing Equipment in Stockhouse 19 shall be limited to two million barrels of beer packaged per month and 17.25 million barrels of beer packaged in any consecutive twelve-month period.
- 3) The Carbon Dioxide Regeneration System Unit #3 shall be limited to 17.25 million barrels of beer packaged in any consecutive twelve-month period.

**Monitoring/Recordkeeping:**

- 1) The monthly throughput of beer packaged from the Filling Operations shall be recorded and totaled on a consecutive twelve (12)-month basis.
- 2) The monthly throughput of barrels of beer packaged from the Beer Finishing Equipment in Stockhouse 19 shall be recorded and totaled on a consecutive twelve (12)-month basis.
- 3) The monthly throughput of barrels of beer packaged from the Carbon Dioxide Regeneration System Unit #3 shall be recorded and totaled on a consecutive twelve (12)-month basis.

**Reporting:**

- 1) The permittee shall submit a permit application for each new emission unit added to the filler operations. The permittee shall also submit an up to date, complete listing of all fillers anytime filler is added or removed from the filler operation. At a minimum, this shall include the building and floor location, filler type, line number, and installation date.
- 2) The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit (s) exceeded the emission limitation(s).

<b>EU0605 and EU0606 - Ink-Jet Coders</b>			
Emission Unit	Description	Manufacturer/ Model #	2009 EIQ Reference #
EU0605	Videojet Ink Coders	Video Jet Corp.	PK244
EU0606	Diagraph Coders		PK253

**Permit Condition EU0605-001 and EU0606-001**  
**10 CSR 10-6.060**  
**Construction Permits Required**  
**City of St. Louis APCD Permit No. 97-02-016PM2 (Packaging Coder System)**

**Emission Limitation:**

- 1) Volatile organic compound (VOC) emissions from the packaging coding system (inks/solvents) shall not exceed 30 tons in any consecutive twelve-month period.
- 2) Spills and leaks of more than one gallon of coder ink/solvent shall be cleaned up immediately.
- 3) Rags containing solvents shall be stored in a closed container.

**Monitoring:**

The permittee shall monitor the usage and VOC contents of inks/solvents on a monthly basis. The VOC content of the inks/solvents shall be determined by formulation data supplied by the manufacturer of the inks/solvents. Calculations of VOC emission rates shall be made monthly.

**Recordkeeping:**

The permittee shall maintain an accurate record of ink/solvent usage and VOC emission rates on a monthly and rolling twelve (12)-month basis.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit (s) exceeded the emission limitation(s).

<b>EU0607 - Beer Packaging -- Line 39 Sanitizing Solution</b>		
Emission Unit	Description	2009 EIQ Reference #
EU0607	Beer Packaging -- Line 39 – Sanitizing Solution	PK244

**Permit Condition EU0607-001**  
**10 CSR 10-6.060**  
**Construction Permits Required**  
**City of St. Louis Air Pollution Control Division Permit No. 98-11-075PM (Issued February 7, 2001)**  
**City of St. Louis Air Pollution Control Division Permit No. 98-11-075PM – Nullification of**

**Permit Conditions (Issued April 17, 2003)**  
**City of St. Louis Air Pollution Control Division Permit No. 98-11-075PM2**

**Emission Limitation:**

- 1) Ethyl alcohol throughput for sterilizing the filler line shall not exceed 2,000 gallons in any consecutive twelve-month period.
- 2) Ethanol storage containers shall be closed at all times when not in use.

**Monitoring/Recordkeeping:**

Maintain monthly records of the consumption rates of ethyl alcohol used to sterilize the filler line and totaled on a consecutive twelve-month basis.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit exceeded the emission limitation(s).

<b>EU0701 through EU0702 – D.E. Silos</b>		
Emission Unit	Description	2009 EIQ Reference #
EU0701	D.E. Silo 1with Fabric Filter, Building 190	SH171
EU0702	D.E. Silo 1with Fabric Filter, Building 190	SH172

**Permit Condition EU0701-001 through EU0702-001**  
**10 CSR 10-6.400**  
**Restriction of Emission of Particulate Matter from Industrial Processes**

**Emission Limitation:**

- 1) The permittee shall not emit particulate matter from EU0701 or EU0702 in excess of 19.20 lbs/hr .
- 2) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Recordkeeping/Reporting:**

Not required (See Statement of Basis).

<b>EU0703 - D.E. Scale Tank</b>		
Emission Unit	Description	2009 EIQ Reference #
EU0703	D.E. Silo 1with Fabric Filter, Building 190	SH314

**Permit Condition EU0703-001**  
**10 CSR 10-6.060**  
**Construction Permits Required**

**City of St. Louis APCD Celite Slurry Mixing & Transferring System Permit, Issued March 11, 1993**

**Emission Limitation:**

- 1) The throughput of diatomaceous earth (celite) shall not exceed 9,200 tons in any consecutive twelve-month period.
- 2) The powdery celite must be wetted with water in the educator before entering the slurry mixing tank.

**Monitoring:**

The permittee shall monitor the throughput of diatomaceous earth on a monthly basis and rolling twelve (12)-month basis.

**Recordkeeping:**

The permittee shall maintain an accurate record of the monthly and annual throughput of diatomaceous earth.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit exceeded the emission limitation(s).

**Permit Condition EU0703-002**  
**10 CSR 10-6.400**  
**Restriction of Emission of Particulate Matter from Industrial Processes**

**Emission Limitation:**

- 1) The permittee shall not emit particulate matter in excess of 30.50 lbs/hr from EU0703.
- 2) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Recordkeeping/Reporting:**

Not required (See Statement of Basis).

<b>EU0712 through EU0728 - Fermenting Operation (Stockhouses 14, 16, 17, 18 and 20)</b>		
Emission Unit	Description	2009 EIQ Reference #
EU0712	190 Chip Tanks (1160 barrels each), Stockhouse 14	SH191
EU0713	8 Chip Washers/Separators, Stockhouse 14	SH195
EU0714	128 Chip Tanks (1510 barrels each), Stockhouse 16	SH192
EU0715	6 Chip Washers/Separators, Stockhouse 16	SH196
EU0716	Spent Yeast Tank (6000 barrel), Stockhouse 16	SH269
EU0717	2 Unitanks (6000 barrels each), Stockhouse 16	SH410
EU0718	25 Vertical Alpha Tanks (23 @ 6000 barrels & 2 @ 5000 barrels), Stockhouse 17	SH198
EU0719	Vertical Alpha Tank Drop Receiver #1, Stockhouse 17	SH199
EU0720	Vertical Alpha Tank Drop Receiver #2, Stockhouse 17	SH200
EU0721	20 Cold Wort Settlers (915 barrels each), Stockhouse 17	SH292
EU0722	6 Yeast Brinks (209 barrels each), Stockhouse 17	SH293

EU0723	Spent Yeast Brink (209 barrels), Stockhouse 17	SH294
EU0724	66 Chip Tanks (3500 barrels each), Stockhouse 18	SH193
EU0725	12 Chip Washers/Separators, Stockhouse 18	SH197
EU0726	20 Unitanks (5800 barrels each), Stockhouse 20	SH515
EU0727	4 Krauesen Tanks (2200 barrels eac), Stockhouse 20	SH516
EU0728	Spent Beechwood Chip Dumpster	SH177
<b>Permit Condition EU0712-001 through EU0728-001</b> <b>10 CSR 10-6.060</b> <b>Construction Permits Required</b> <b>City of St. Louis APCD Permit No. 09-12-025</b>		

Permit No. 09-12-025 shall supercede the limitations, conditions, and recordkeeping requirements contained in Permit No. 04-06-012.

**Emission Limitation:**

The Fermenting Operation as a whole (stockhouses 14, 16, 17, 18 and 20) is limited to 17.25 million barrels of beer packaged throughput in any consecutive twelve (12)-month period.

**Monitoring/Recordkeeping:**

The monthly throughput of barrels of beer packaged from the Fermenting Operations (stockhouses 14, 16, 17, 18 and 20) shall be totaled on a consecutive twelve (12)-month basis.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit(s) exceeded the emission limitation.

<b>EU0801 - 100,000 Gallon Fixed Roof Tank</b>		
Emission Unit	Description	2009 EIQ Reference #
EU0801	100,000 Gallon No. 2 Fuel Oil Storage Tank, Vertical Fixed Roof Building 158, South Side	UT300

<b>Permit Condition EU0801-001</b> <b>City of St. Louis Air Pollution Control Division Source Registration Permit</b> <b>Permit No.: SR01.049, Issued October 01, 2001</b> Enforceable by the City of S. Louis Air Pollution Control Division only
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**Emission Limitation:**

- 1) The permittee shall only store fuel oil No. 2.
- 2) The No. 2 Fuel Oil throughput rate shall not exceed 19,447,200 gallons in any consecutive twelve-month period.

**Monitoring/Recordkeeping:**

- 1) The permittee shall keep monthly records of fuel oil No. 2 throughput.
- 2) The permittee shall calculate and record the consecutive twelve-month throughput on a monthly basis.

3) The permittee shall record any spills of more than 20 gallons.

**Reporting:**

- 1) The permittee shall report any spills of more than 20 gallons to the City of St. Louis Air Pollution Control Division.
- 2) The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit exceeded the emission limitation(s).

<b>EU0802 through EU0805 - Dry Ash Handling System</b>			
Emission Unit	Description	Manufacturer/ Model #	2009 EIQ Reference #
EU0802	Fly Ash Filter/Separator, Building 158A	United Conveyor Corp., Model 26-S-72	UT370
EU0803	Fly Ash Silo Bin Vent, Building 158A	Industrial Accessories, Model 848-A2-960S	UT371
EU0804	Bottom Ash Filter/Separator, Building 158A	United Conveyor Corp., Model 41-5-96	UT372
EU0805	Bottom Ash Silo Bin Vent, Building 158A	Industrial Accessories, Model 88BV1-A2-960S	UT373

**Permit Condition EU0802–001 through EU0805-001**  
**10 CSR 10-6.060**  
**Construction Permits Required**  
**City of St. Louis Air Pollution Control Division Permit No. 95-10-124 (Dry Ash Removal System)**

**Emission Limitation:**

- 1) The ash throughput rate for the ash handling system shall not exceed 6.1 tons per hour.
- 2) All equipment shall be operated and maintained using the principles of Good Engineering Practice.

**Monitoring:**

Hourly amounts of ash handled shall be calculated on a monthly basis using the hours of operation per month.

**Recordkeeping:**

The permittee shall maintain an accurate record of monthly hours of operation and amount of ash handled.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit exceeded the emission limitation (s).

**Permit Condition EU0802–002 through EU0805-002**  
**10 CSR 10-6.400**

**Restriction of Emission of Particulate Matter from Industrial Processes**

**Emission Limitation:**

- 1) The permittee shall not emit particulate matter in excess of
- 2) 10.60 lbs/hr from either EU0802 or EU0803
- 3) 6.40 lbs/hr from either EU0804 or EU0805
- 4) No person shall cause, allow or permit the emission of particulate matter from any source in a concentration in excess of 0.30 grain per standard cubic foot of exhaust gases.

**Monitoring/Recordkeeping/Reporting:**

Not required (See Statement of Basis – filter receivers are an inherent part of the process).

<b>EU0806 through EU0807 - Bioenergy Recovery System (BERS)</b>			
Emission Unit	Description	Manufacturer/ Model #	2009 EIQ Reference #
EU0806	Biogas Flare, BERS	John Zink EEF-U-12LF Energy Efficient Flare Tip	UT381
EU0807	Biogas Filter, BERS	Custom Design	UT382

**Permit Condition EU0806–001 through EU0807-001**

**10 CSR 10-6.060**

**Construction Permits Required**

**City of St. Louis Air Pollution Control Division Permit No. 94-07-051 (Bioenergy Recovery System)**

**City of St. Louis Air Pollution Control Division Permit Matter No. 99-06-035 (Revision of Permit No. 94-07-051)**

**Emission Limitation:**

- 1) The permittee shall not allow Biogas Flare and Filter (EU0806 & EU0807) to emit in excess 0.46 tons of Hydrogen Sulfide (H<sub>2</sub>S) in any consecutive twelve-month period.
- 2) The throughput of biogas to the flare shall be limited to 92,000,000 cubic feet per twelve-month period.
- 3) All equipment shall be operated and maintained according to the principles of Good Engineering Practice.

**Monitoring**

- 1) The permittee shall monitor the hydrogen sulfide content of the biogas on a daily basis.
- 2) The permittee shall monitor the amount of biogas produced on a daily basis by use of a flowmeter. Calculations of annual amounts of biogas produced shall be made monthly.
- 3) The permittee shall monitor the distribution of biogas to the Boilers (Nos. 8 & 9) and the Biogas Flare on a daily basis.

**Record keeping:**

The permittee shall maintain the following records:

- 1) Amounts of biogas produced;
- 2) Biogas flared; and
- 3) H<sub>2</sub>S emissions.

These records shall be maintained as a monthly moving average indicating usage and emissions during the previous 12 months.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit(s) exceeded the emission limitation (s).

<b>EU0810 - Coal Preparation Plant</b>		
Emission Unit	Description	2009 EIQ Reference #
EU0810	Coal Preparation Plant - Coal Loaders, Conveyors, Classifier and Crusher, Building 157 (all coal processing equipment is inside a building with vent)	UT10

<p><b>Permit Condition EU0810-001</b></p> <p><b>10 CSR 10-6.070</b></p> <p><b>New Source Performance Regulations</b></p> <p><b>40 CFR Part 60 Subpart Y</b></p> <p><b>Standards of Performance for Coal Preparation Plants</b></p>
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**Emission Limitation:**

An owner or operator subject to the provisions of 40 CFR Part 60 Subpart Y shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, or coal transfer and loading system processing coal, gases which exhibit twenty percent (20%) opacity or greater.  
 [§60.252(a)(2)]

**Monitoring:**

- 1) The following monitoring procedures shall be used to conduct visible emission readings:
  - a) The permittee shall observe the stack exhaust (or stack exhausts if more than one stack) for visible emissions:
    - i) May observe numerous stacks from a single location.
    - ii) Each reading will be for one minute in duration.
    - iii) If any visible emissions are observed, Anheuser-Busch will focus on those sources.
    - iv) The installation shall ensure that all sources are observed at least once during the calendar year while operating
  - b) Determine if visible emissions are “normal” or not.
    - i) If not “normal”, Anheuser-Busch shall conduct a Method 9 observation within a reasonable amount of time.
    - ii) If Anheuser-Busch initiates corrective action (i.e., shuts down source) to eliminate the visible emissions:
      - (1) A follow-Up Method 22-like visible emission observation shall be conducted upon bringing the source on line.
      - (2) If situation persists, conduct Method 9 within a reasonable amount of time.
- 2) The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then-

- b) Observations must be made once every two weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then-
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
- 3) If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

**Recordkeeping:**

- 1) The permittee shall maintain records of all observation results (see Attachment A), noting:
  - a) Whether any air emissions (except for water vapor) were visible from the emission units,
  - b) All emission units from which visible emissions occurred, and
  - c) Whether the visible emissions were normal for the process.
- 2) The permittee shall maintain records of any equipment malfunctions.
- 3) The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment B)

**Reporting:**

- 1) The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined using the Method 9 test that the emission unit(s) exceeded the opacity limit.
- 2) Reports of any deviations from monitoring, record keeping and reporting requirements of this permit condition shall be submitted semiannually, in the semi-annual monitoring report and annual compliance certification, as required by Section V of this permit.

<b>EU0901 – Cold Cleaners</b>		
Emission Unit	Description	2009 EIQ Reference #
EU0901	Cold Cleaners (1 through 4): Cold solvent cleaning units for the cleaning of metal parts	MFR-001

<p><b>Permit Condition EU0901-001</b></p> <p><b>10 CSR 10-5.300</b></p> <p><b>Control of Emissions From Solvent Metal Cleaning</b></p>
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**Emission Limitation:**

- 1) The permittee shall not use cold cleaning solvent with a vapor pressure greater than 1.0 millimeters of Mercury (mmHg) (0.019 psi) at 20 degrees Celsius (20°C) (68 degrees Fahrenheit (68°F)).
- 2) Exception: The permittee may use an alternative method for reducing cold cleaning emissions if the level of emission control is equivalent to or greater than the requirements listed above. The Director and the U.S. Environmental Protection Agency (EPA) must approve the alternative method.

**Operational Limitation/Equipment Specifications:**

- 1) Each cold cleaner shall have a cover which will prevent the escape of solvent vapors from the solvent bath while in the closed position, or an enclosed reservoir which limits the escape of solvent vapors from the solvent bath whenever parts are not being processed in the cleaner.
- 2) When one or more of the following conditions exist, the cover shall be designed to operate easily such that minimal disturbing of the solvent vapors in the tank occurs. (For covers larger than ten square feet, this shall be accomplished by either mechanical assistance such as spring loading or counter weighing or by power systems):
  - a) The solvent vapor pressure is greater than 0.3 psi measured at 37.8 degrees Celsius (37.8°C) (100 degrees Fahrenheit (100°F));
  - b) The solvent is agitated; or
  - c) The solvent is heated.
- 3) Each cold cleaner shall have a internal drainage facility so that parts are enclosed under the cover while draining.
- 4) If an internal drainage facility cannot fit into the cleaning system and the solvent vapor pressure is less than 0.6 psi measured at 37.8°C (100°F), then the cold cleaner shall have an external drainage facility which provides for the solvent to drain back into the solvent bath.
- 5) Solvent sprays, if used, shall be a solid fluid stream (not a fine, atomized or shower-type spray) and at a pressure which does not cause splashing above or beyond the freeboard.
- 6) A permanent conspicuous label summarizing the operating procedures shall be affixed to the equipment or in a location readily visible during operation of the equipment.
- 7) Any cold cleaner which uses a solvent that has a solvent vapor pressure greater than 0.6 psi measured at 37.8°C (100°F) or is heated above 48.9°C (120°F), must use one of the following control devices:
  - a) A freeboard ratio of at least 0.75;
  - b) Water cover (solvent must be insoluble in and heavier than water); or
  - c) Other control systems with a mass balance demonstrated overall VOC emissions reduction efficiency greater than or equal to 65%. These control systems must receive approval from the Director and EPA prior to their use.
- 8) Each cold cleaner shall be operated as follows:
  - a) Cold cleaner covers shall be closed whenever parts are not being handled in the cleaners or the solvent must drain into an enclosed reservoir except when performing maintenance or collecting solvent samples.
  - b) Cleaned parts shall be drained in the freeboard area for at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining, the parts shall be positioned so that the solvent drains directly back to the cold cleaner.
  - c) Whenever a cold cleaner fails to perform within the rule operating requirements, the unit shall be shut down immediately and shall remain shut down until operation is restored to meet the rule operating requirements.
  - d) Solvent leaks shall be repaired immediately or the cleaner shall be shut down until the leaks are repaired.
  - e) Any waste material removed from a cold cleaner shall be disposed of by one of the following methods or an equivalent method approved by the Director and EPA:
    - i) Reduction of the waste material to less than 20% VOC solvent by distillation and proper disposal of the still bottom waste; or

- ii) Stored in closed containers for transfer to a contract reclamation service or disposal facility approved by the Director and EPA.
- f) Waste solvent shall be stored in covered containers only.
- 9) Operators must be trained as follows:
  - a) Only persons trained in at least the operation and equipment requirements specified in this rule for their particular solvent metal cleaning process to operate this equipment;
  - b) The person who supervises any person who operates solvent cleaning equipment regulated by this rule shall receive equal or greater operational training than the operators; and
  - c) A procedural review shall be given to all solvent metal cleaning equipment operators at least once each 12 months.

**Monitoring/Recordkeeping:**

- 1) The permittee shall maintain the following records for each purchase of cold cleaner solvent (Attachment E or an equivalent form):
  - a) Name and address of the solvent supplier.
  - b) Date of purchase.
  - c) Type of solvent purchased.
  - d) Vapor pressure of solvent in mm Hg at 20°C or 68°F.
- 2) The permittee shall keep records of all types and amounts of solvents containing waste material from cleaning or degreasing operations transferred either to a contract reclamation service or to a disposal facility and all amounts distilled on the premises. (see Attachment C or an equivalent form). The record also shall include maintenance and repair logs that occurred on the degreaser (Attachments D or an equivalent form). These records shall be kept current and made available for review on a monthly basis. The Director may require additional recordkeeping if necessary to adequately demonstrate compliance with this rule.
- 3) The permittee shall keep training records of solvent metal cleaning for each employee on an annual basis (Attachment F or an equivalent form).
- 4) All records shall be retained for five years and be available to the Director upon request.

**Reporting:**

Reports of any deviations from or exceedance of any of the terms imposed by this regulation, or any malfunction which causes a deviation from or exceedance of this regulation shall be submitted semiannually, in the semiannual monitoring report and annual compliance certification and monitoring report, as required by Section V of this permit.

<b>EU0902 - Mart Aqueous Parts Washer</b>			
Emission Unit	Description	Manufacturer/ Model #	2009 EIQ Reference #
EU0902	Mart Aqueous Parts Washer – Heated aqueous parts washer for the cleaning of mechanical parts	Mart Corp./Hutticane 84	MFR-002

**Permit Condition EU0902-001**  
**10 CSR 10-6.060**  
**Construction Permits Required**  
**City of St. Louis Air Pollution Control Division Permit No. 95-05-059**

**Emission Limitation:**

Parts washer solvent/detergent limited to 50 gallons per month and 480 gallons in any consecutive twelve (12)-month period.

**Monitoring/Record Keeping:**

The permittee shall maintain the monthly totals and the sum of the most recent consecutive twelve (12) month records of solvent/detergent usage.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 no later than twenty (20) days after the permittee determined that the emission unit exceeded the emission limitation.

<b>EU0903 – Paint Booth EU0904 – Cleanup Solvent Use for Paint Equipment</b>		
Emission Unit	Description	2009 EIQ Reference #
EU0903	Paint Booth (3 units) – Paint booth for the application of paints and insulating varnish to locomotive parts. The emission unit includes emissions from the cleanup of painting equipment using organic solvents	MFR-006
EU0904	Cleanup Solvent Use for Paint Equipment -	MFR-003

**Permit Condition EU0903-001 through EU0904-001**  
**10 CSR 10-6.060**  
**Construction Permits Required**  
**City of St. Louis Air Pollution Control Division Construction Permit No. 95-05-059**

**Emission Limitation:**

- 1) Usage of painting shall be limited to less than or equal to 80 gallons per month and 800 gallons per consecutive twelve (12)-month period.
- 2) Usage of insulating varnish shall be limited to less than or equal to 40 gallons per month and 380 gallons per consecutive twelve (12)-month period.
- 3) Usage of cleanup solvents shall be limited to less than or equal to 50 gallons per month and 500 gallons per consecutive twelve (12)-month period.

**Monitoring/Record Keeping:**

The permittee shall maintain the monthly totals and the sum of the most recent consecutive twelve (12) month records of paint, varnish and cleanup solvents usage.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. no later than twenty (20) days after the permittee determined that the emission unit(s) exceeded the emission limitation(s).

**Permit Condition EU0903-002**

**10 CSR 10-5.330**

**Control of Emissions From Industrial Surface Coating Operations**

**Emission Limitation:**

The permittee shall not emit to the atmosphere any VOC from any surface coating of railroad cars in excess of 3.5 lbs. VOC/gallon (minus water and non-VOC organic compounds), the amount allowed in Table B of §5.330(4)(B).

**Monitoring:**

Compliance with the limitations of this regulation shall be determined by the following methods, as applicable and appropriate.

- 1) Compliance with emission limits may be demonstrated using the method referenced in 10 CSR 10-6.030(14)(C) using the one-hour bake. Emission performance shall be on the basis of a daily volume-weighted average of all coatings used in each surface coating operation as delivered to the coating applicator(s) on a coating line. The daily volume-weighted average ( $DAVG_{vw}$ ) is calculated by the following formula:

$$DAVG_{vw} = \frac{\sum_{i=1}^n (A_i \times B_i)}{C}$$

Where:

A = daily gallons of each coating used (minus water and exempt solvents) in a surface coating operation.

B = pounds of VOC per gallon of coating (minus water and exempt solvents).

C = total daily gallons coating used (minus water and exempt solvents) in a surface coating operation.

n = number of all coatings used in a surface coating operation

- 2) Compliance with the emission limits in Table B may also be demonstrated on pounds of VOC per gallon of coating solids basis. The determination is made by first converting the emission limit in Table B to pounds of VOC per gallon of coating solids as shown in the following three (3) steps:

$$(1) \frac{\text{lbs VOC / gal coating (from Table B)}}{7.36 \text{ lbs / gal (average density of solvents)}} = \text{Volume fraction of VOC}$$

$$(2) 1 - \text{Volume fraction of VOC} = \text{Volume fraction solids}$$

$$(3) \frac{\text{lbs VOC / gal coating (from Table B)}}{\text{Volume fraction of solids}} = \frac{\text{lbs VOC}}{\text{gal coatings solids}}$$

This value (from step 3) is the new emission limit. It is equivalent to the emission limit in Table B on a coating solids basis. The VOC per gallon of coating solids for each coating solids used is then determined using the method referenced in 10 CSR 10-6.030(14)(C) using the one-hour bake. The composite daily weighted average of pounds of VOC per gallon of coating solids as tested for in the

actual coatings used is compared to the new emission limit. Source operations on a coating line using coatings with a composite actual daily weighted average value less than or equal to the new emission limit, are in compliance with this rule; or

- 3) Compliance with the emission limits in §5.330(4)(B), Table B may be determined on a pounds of VOC per gallon of coating solids applied basis. An owner or operator may request his/her emission limit be modified to be equivalent to the emission limit in §5.330(4)(B), but in emission units of pounds of VOC emitted per gallon of coating solids applied. This new emission limit is derived by dividing the emission limit from §5.330(5)(B)2. by an appropriate value for transfer efficiency (TE) as determined by the Director. Prior to this determination, the owner or operator shall demonstrate to the satisfaction of the Director that an adequate, fully replicable TE test method exists for the source operation. Upon approval of the TE demonstration, the Director will develop an emission limit equivalent to the applicable emission limit in §5.330(4)(B).

**Recordkeeping:**

- 1) The permittee shall keep records detailing specific VOC sources as necessary for the Director to determine daily compliance. These may include:
  - a) Daily records of the type and the quantity of coatings used daily;
  - b) The coating manufacturer's formulation data for each coating on forms provided or approved by the Director;
  - c) Daily records of the type and quantity of solvents for coating, thinning, purging and equipment cleaning used;
  - d) All test results to determine capture and control efficiencies, TEs and coating makeup;
  - e) Daily records of the type and quantity of waste solvents reclaimed or discarded daily;
  - f) Daily records of the quantity of pieces or materials coated daily; and
  - g) Any additional information pertinent to determining compliance.
- 2) Records such as daily production rates may be substituted for actual daily coating use measurements provided the owner submits a demonstration approved by the Director that these records are adequate for the purposes of this rule.

**Reporting:**

The permittee shall provide a written report to the City of St. Louis Air Pollution Control Division, 1520 Market Street, Room 4058, St. Louis, MO 63103, and to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than twenty (20) days after the permittee determined that the emission unit exceeded the emission limitation.

**Permit Condition EU0903-004**

**10 CSR 10-6.075**

**Maximum Achievable Control Technology Regulations**

**40 CFR Part 63, Subpart M**

**National Emission Standards for Hazardous Air Pollutants for Surface Coating of  
Miscellaneous Metal Parts and Products**

**Emission Limitation:**

You are subject to this subpart if you own or operate a new, reconstructed, or existing affected source, as defined in §63.3882, that uses 946 liters (250 gallons (gal)) per year, or more, of coatings that contain hazardous air pollutants (HAP) in the surface coating of miscellaneous metal parts and products defined

in paragraph (a) of this section; and that is a major source, is located at a major source, or is part of a major source of emissions of HAP. A major source of HAP emissions is any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit any single HAP at a rate of 9.07 megagrams (Mg) (10 tons) or more per year or any combination of HAP at a rate of 22.68 Mg (25 tons) or more per year. You do not need to include coatings that meet the definition of non-HAP coating contained in §63.3981 in determining whether you use 946 liters (250 gal) per year, or more, of coatings in the surface coating of miscellaneous metal parts and products.

## IV. Core Permit Requirements

The installation shall comply with each of the following regulations or codes. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued. The following is only an excerpt from the regulation or code, and is provided for summary purposes only.

### **10 CSR 10-5.060 Refuse Not to be Burned in Fuel Burning Installations (Contained in State Implementation Plan)**

No person shall burn or cause or permit the burning of refuse in any installation which is designed for the primary purpose of burning fuel.

### **St. Louis City Ordinance 65645, Sec 15, *Open Burning Restrictions***

- 1) No person shall cause, suffer, allow or permit the open burning of refuse.
- 2) No person shall conduct, cause or permit the conduct of a salvage operation by open burning.
- 3) No person shall conduct, cause or permit the disposal of trade waste by open burning.
- 4) No person shall cause or permit the open burning of leaves, trees or the byproducts therefrom, grass, or other vegetation.
- 5) It shall be prima-facie evidence that the person who owns or controls property on which open burning occurs, has caused or permitted said open burning.

### **10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions**

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the Director within two business days, in writing, the following information:
  - a) Name and location of installation;
  - b) Name and telephone number of person responsible for the installation;
  - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
  - d) Identity of the equipment causing the excess emissions;
  - e) Time and duration of the period of excess emissions;
  - f) Cause of the excess emissions;
  - g) Air pollutants involved;
  - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;
  - i) Measures taken to mitigate the extent and duration of the excess emissions; and
  - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph 1 information list to the Director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the Director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.

- 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the Director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.
- 4) Nothing in this rule shall be construed to limit the authority of the Director or commission to take appropriate action, under Sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
- 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

#### **10 CSR 10-6.060 Construction Permits Required**

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

#### **10 CSR 10-6.065 Operating Permits**

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(6)(B)1.A(V)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources' personnel upon request. [10 CSR 10-6.065(6)(C)3.B]

#### **10 CSR 10-6.080 Emission Standards for Hazardous Air Pollutants and 40 CFR Part 61 Subpart M National Emission Standard for Asbestos**

- 1) The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.
- 2) The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

#### **10 CSR 10-6.100 Alternate Emission Limits**

Proposals for alternate emission limitations shall be submitted on Alternate Emission Limits Permit forms provided by the Department. An installation owner or operator must obtain an Alternate Emission Limits Permit in accordance with 10 CSR 10-6.100 before alternate emission limits may become effective.

#### **10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information**

- 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) annually.
- 2) The permittee may be required by the Director to file additional reports.

- 3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- 4) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079 to satisfy the requirements of the Federal Clean Air Act, Title V.
- 5) The permittee shall complete required reports on state supplied EIQ forms or in a form satisfactory to the Director and the reports shall be submitted to the Director by June 1 after the end of each reporting period.
- 6) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- 7) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

#### **10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential**

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

#### **10 CSR 10-6.150 Circumvention**

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

#### **10 CSR 10-6.170**

##### **Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin**

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the Director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the Director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
  - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
  - b) Paving or frequent cleaning of roads, driveways and parking lots;
  - c) Application of dust-free surfaces;
  - d) Application of water; and
  - e) Planting and maintenance of vegetative ground cover.

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### **10 CSR 10-6.180 Measurement of Emissions of Air Contaminants**

- 1) The Director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The Director may specify testing methods to be used in accordance with good professional practice. The Director may observe the testing. All tests shall be performed by qualified personnel.
- 2) The Director may conduct tests of emissions of air contaminants from any source. Upon request of the Director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- 3) The Director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

### **10 CSR 10-5.040 Use of Fuel in Hand-Fired Equipment Prohibited**

It shall be unlawful to operate any hand-fired fuel-burning equipment in the St. Louis, Missouri metropolitan area. This regulation shall apply to all fuel-burning equipment including, but not limited to, furnaces, heating and cooking stoves and hot water furnaces. It shall not apply to wood-burning fireplaces and wood-burning stoves in dwellings, nor to fires used for recreational purpose, nor to fires used solely for the preparation of food by barbecuing. Hand-fired fuel-burning equipment is any stove, furnace, or other fuel-burning device in which fuel is manually introduced directly into the combustion chamber.

### **10 CSR 10-5.130 Certain Coals to be Washed**

The permittee shall not import, sell, offer for sale, expose for sale, exchange, deliver or transport for use and consumption in the St. Louis metropolitan area or use or consume in the said area any coal which as mined containing in excess of 2.0% sulfur or 12.0% ash calculated as described in 10 CSR 10-5.110, unless it has been cleaned by a process known as "washing" so that it shall contain no more than 12.0% ash on a dry basis. The term "washing" is meant to include purifying, cleaning, or removing impurities from coal by mechanical process, regardless of cleaning medium used.

### **10 CSR 10-5.160 Control of Odors in the Ambient Air**

**This requirement is not federally enforceable.**

No person shall emit odorous matter as to cause an objectionable odor on or adjacent to:

- 1) Residential, recreational, institutional, retail sales, hotel or educational premises.
- 2) Industrial premises when air containing odorous matter is diluted with 20 or more volumes of odor-free air; or
- 3) Premises other than those in 1. and 2 above when air containing odorous matter is diluted with four or more volumes of odor-free air.

The previously mentioned requirement shall apply only to objectionable odors. An odor will be deemed objectionable when 30% or more of a sample of the people exposed to it believe it to be objectionable in usual places of occupancy; the sample size to be at least 20 people or 75% of those exposed if fewer than 20 people are exposed.

### **10 CSR 10-5.240 Additional Air Quality Control Measures May be Required When Sources Are Clustered in a Small Land Area**

The Air Conservation Commission may prescribe more restrictive air quality control requirements that are more restrictive and more extensive than provided in regulations of general application for:

- 1) Areas in which there are one or more existing sources and/or proposed new sources of particulate matter in any circular area with a diameter of two miles (including sources outside metropolitan area) from which the sum of particulate emissions allowed from these sources by regulations of general application are or would be greater than 2000 tons per year or 500 pounds per hour.
- 2) Areas in which there are one or more existing sources and/or proposed new sources of sulfur dioxide in any circular area with a diameter of two miles from which the sum of sulfur dioxide emissions from these sources allowed by regulations of general application are or would be greater than 1000 tons for any consecutive three months or 1000 pounds per hour.

### **10 CSR 10-6.250 Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements**

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the Department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the Department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the Department. Certain business entities that meet the requirements for state-approved exemption status must allow the Department to monitor training classes provided to employees who perform asbestos abatement.

### **Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone**

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
  - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
  - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
  - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
  - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
  - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
  - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
  - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.

- d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
- e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
- f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
- 5) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

#### **10 CSR 10-6.280 Compliance Monitoring Usage**

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
  - a) Monitoring methods outlined in 40 CFR Part 64;
  - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
  - c) Any other monitoring methods approved by the Director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
  - a) Monitoring methods outlined in 40 CFR Part 64;
  - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
  - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
  - a) Applicable monitoring or testing methods, cited in:
    - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
    - ii) 10 CSR 10-6.040, "Reference Methods";
    - iii) 10 CSR 10-6.070, "New Source Performance Standards";
    - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
  - b) Other testing, monitoring, or information gathering methods, if approved by the Director, that produce information comparable to that produced by any method listed above.

## V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued,

### 10 CSR 10-6.065(6)(C)1.B Permit Duration

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

### 10 CSR 10-6.065(6)(C)1.C General Record Keeping and Reporting Requirements

- 1) Record Keeping
  - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
  - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
  - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
  - b) The permittee shall submit a report of all required monitoring by:
    - i) October 1st for monitoring which covers the January through June time period, and
    - ii) April 1st for monitoring which covers the July through December time period.
    - iii) Exception. Monitoring requirements which require reporting more frequently than semi annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
  - c) Each report shall identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
  - d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
    - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7.A of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.

- ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
- iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semiannual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

#### **10 CSR 10-6.065(6)(C)1.D Risk Management Plan Under Section 112(r)**

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- 1) June 21, 1999;
- 2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

#### **10 CSR 10-6.065(6)(C)1.F Severability Clause**

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.

#### **10 CSR 10-6.065(6)(C)1.G General Requirements**

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to

the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

**10 CSR 10-6.065(6)(C)1.H Incentive Programs Not Requiring Permit Revisions**

No permit revision will be required for any installation changes made under any approved economic incentive, marketable permit, emissions trading, or other similar programs or processes provided for in this permit.

**10 CSR 10-6.065(6)(C)1.I Reasonably Anticipated Operating Scenarios**

The permittee shall be able to operate under the following alternative operating scenarios without notifying the permitting authority. The permittee will be required to maintain a log which tracks when each operating mode is in effect.

Alternative Operating Scenarios:							
Emission Unit ID	Emission Unit Description	Primary Operating Scenario	Alternative Operating Scenario #1	Alternative Operating Scenario #2	Alternative Operating Scenario #3	Alternative Operating Scenario #4	Alternative Operating Scenario #5
EU0101	Boiler 1	Coal	Natural Gas	Coal – Natural Gas	NA	NA	NA
EU0102	Boiler 5	Coal	Coal - Biogas	Coal – Biogas – Natural Gas	Coal - Natural Gas	Natural Gas	Coal - Activated Carbon - Natural Gas
EU0104	Boiler 8	Coal	Coal - Biogas	Coal - Biomass - Biogas	Coal - Biomass	Natural Gas	NA
EU0105	Boiler 9	Coal	Coal - Biogas	Coal - Biomass - Biogas	Coal - Biomass	Natural Gas	NA

**10 CSR 10-6.065(6)(C)3 Compliance Requirements**

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation’s right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
  - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
  - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and

- d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
  - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
  - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, as well as the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:
  - a) The identification of each term or condition of the permit that is the basis of the certification;
  - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
  - c) Whether compliance was continuous or intermittent;
  - d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
  - e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

#### **10 CSR 10-6.065(6)(C)6 Permit Shield**

- 1) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date that this permit is issued, provided that:
  - a) The application requirements are included and specifically identified in this permit, or
  - b) The permitting authority, in acting on the permit revision or permit application, determines in writing that other requirements, as specifically identified in the permit, are not applicable to the installation, and this permit expressly includes that determination or a concise summary of it.
- 2) Be aware that there are exceptions to this permit protection. The permit shield does not affect the following:
  - a) The provisions of Section 303 of the Act or Section 643.090, RSMo concerning emergency orders,
  - b) Liability for any violation of an applicable requirement which occurred prior to, or was existing at, the time of permit issuance,
  - c) The applicable requirements of the acid rain program,
  - d) The authority of the Environmental Protection Agency and the Air Pollution Control Program of the Missouri Department of Natural Resources to obtain information, or
  - e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

### **10 CSR 10-6.065(6)(C)7 Emergency Provisions**

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
  - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
  - b) That the installation was being operated properly,
  - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
  - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

### **10 CSR 10-6.065(6)(C)8 Operational Flexibility**

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable under the permit, and the changes do not result in the emission of any air contaminant not previously emitted. The permittee shall notify the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, at least seven days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

- 1) Section 502(b)(10) changes. Changes that, under Section 502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), record keeping, reporting or compliance requirements of the permit.
  - a) Before making a change under this provision, The permittee shall provide advance written notice to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are affected. The permittee shall maintain a copy of the notice with the permit, and the Air Pollution Control Program shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the Air Pollution Control Program as above at least seven days before the change is to be made. If less than seven days notice is provided because of a need to respond more quickly to these unanticipated conditions, the permittee shall provide notice to the EPA and the Air Pollution Control Program as soon as possible after learning of the need to make the change.
  - b) The permit shield shall not apply to these changes.

### **10 CSR 10-6.065(6)(C)9 Off-Permit Changes**

- 1) Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
  - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
  - b) The permittee must provide written notice of the change to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.
  - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and
  - d) The permit shield shall not apply to these changes.

### **10 CSR 10-6.020(2)(R)12 Responsible Official**

The application utilized in the preparation of this permit was signed by James J. Lukaszewcz, Plant Manager. On March 26, 2003, the Air Pollution Control Program was informed that Mr. James J. Lukaszewcz is no longer with the company and John J. Pitts, General Manager, is now the responsible official. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

### **10 CSR 10-6.065(6)(E)6 Reopening-Permit for Cause**

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) receives notice from the Environmental Protection Agency (EPA) that a petition for disapproval of a permit pursuant to 40 CFR § 70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,
- 2) The Missouri Department of Natural Resources or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,

- 3) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
  - a) The permit has a remaining term of less than three years;
  - b) The effective date of the requirement is later than the date on which the permit is due to expire;  
or
  - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 4) The installation is an affected source under the acid rain program and additional requirements (including excess emissions requirements), become applicable to that source, provided that, upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit;  
or
- 5) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

**10 CSR 10-6.065(6)(E)1.C Statement of Basis**

This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

**VI. Attachments**

Attachments follow.



**Attachment B - Method 9 Opacity Emissions Observations**

**10 CSR 10-6.220 Compliance Demonstration**

Company: \_\_\_\_\_

Observer: \_\_\_\_\_

Location: \_\_\_\_\_

Observer Certification

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Type Facility: \_\_\_\_\_

Point of Emission: \_\_\_\_\_

Control Device: \_\_\_\_\_

Hour	Min	Seconds				Steam Plum		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							

**SUMMARY OF AVERAGE OPACITY**

Set Number	Time	Opacity	
	Start - End	Sum	Average

Readings ranged from \_\_\_\_\_ to \_\_\_\_\_ % opacity

The source was/was not in compliance with \_\_\_\_\_ at the time evaluation was made

\_\_\_\_\_  
 (Signature of Observer)









## **Attachment G- Solid Fuel Sampling Plan**

### **SOLID FUEL SAMPLING, ANALYSIS AND COMPLIANCE PROCEDURES**

**Thursday, November 29, 2007**

#### **PURPOSE**

To ensure compliance with state and local regulatory requirements.

#### **SOLID FUEL LIMITATIONS**

Solid fuel options for Boilers 1 and 5 are currently limited to coal. Solid fuel options for Boiler 8 and Boiler 9 are currently limited to coal, activated carbon and biomass. Biomass is defined as woody plant material, wood residue, grain and/or spent grain material from fermentation processes for the purposes of this permit. These fuels may be combusted singly or in any combination in Boilers 8 and 9.

#### **TYPICAL FACILITY OPERATIONS**

Solid fuel is purchased from many different vendors. Solid fuel will either be delivered on-site not commingled with any other fuel or it will be mixed together off-site by a vendor in known weight per weight concentrations for delivery on-site commingled.

If the solid fuel is delivered commingled, samples of the off-site pile of each fuel shall be taken on a monthly basis so that the emissions from the coal, activated carbon, and biomass components of each truckload of solid fuel can be correctly calculated from the "as delivered" weight of delivery.

If solid fuel is delivered not mingled with any other solid fuel, samples of each type of solid fuel delivered by a vendor at the facility shall be taken at the beginning of each month or upon the first delivery to the facility by the vendor during the month. Emissions from each truckload of solid fuel can then be correctly calculated from the weight as delivered on-site.

#### **OPERATING PROCEDURE:**

##### **Sampling Frequency and Methods for Solid Fuel Not Commingled Off-Site With Other Solid Fuels**

- One sample of solid fuel shall be taken from each of 15 truckloads of solid fuel for compositing into one sample for analysis. These samples shall be taken at the beginning of each month or upon the first delivery to the facility by the vendor during the month.
- If less than 15 truckloads of a specific type of solid fuel are delivered at the facility during the month, one sample shall be taken from each truckload of solid fuel for compositing into one sample for analysis sample. This will result in less than 15 samples for that solid fuel during that month.

All solid fuel **not commingled** with other solid fuels shall be sampled according to the method below.

1. Collect an approximately two-pound sample using scoop (note: ensure that scoop is clean before sampling).
2. Insert sample in a new plastic bag.
3. Complete sample identification label (see Figure 1 for example label) by recording the sampler's name, the sampling time, date, and vendor name (e.g., Peabody, Penn...etc.).
4. Attach label to bag, close bag securely, and place it in the designated holding area.

Once the samples are taken from a type of solid fuel, the lot of samples is ready to be sent to the laboratory. The samples will then be transported from the on-site holding area to a laboratory for composite sample preparation and analysis.

Sampling Frequency and Methods for Solid Fuel **Commingled** With Other Solid Fuels

- Samples of the piles of each type of solid fuel that will be used during the month shall be taken at the beginning of that month.
- Each pile shall be sampled according to ASTM method for sampling piles of fuel.

Once the samples are taken from the pile of solid fuel, the lot of samples will then be transported from the holding area to a laboratory for composite sample preparation and analysis.

Analytical Parameters

Solid fuels sampled as above will be submitted to a qualified laboratory monthly and analyzed according to the ASTM analytical methods for the following analytical parameters:

<b>Analytical Parameter</b>
Percent Moisture
Percent Ash
Btu/lb.
Percent Sulfur

Requirements for Completion of Analysis

The results of the analysis of the solid fuel samples shall be returned to the facility within 14 days of the sample submittal.

Data Management

The results of solid fuel analysis will be entered into a spreadsheet along with fuel delivery data. The spreadsheet will be used to calculate emissions on a monthly basis from the boilers. Spreadsheet calculations will be maintained in accordance with recordkeeping requirements of the Title V Permit (when received).

The values in AP-42 Section 1.1 Bituminous and Subbituminous Coal Combustion and AP-42 Section 1.6 Wood Residue Combustion in Boilers shall be used to determine the emissions from the combustion of the solid fuel. The values used for the emissions shall be calculated using weight percentage of the composition of the solid fuel. If ABSLB performs additional analysis in addition to the sulfur requirement above, of the solid fuel, those values will be used to determine the emissions from the combustion of that fuel.

**Figure One**  
**Example Sample Bag Label**

<i>Anheuser-Busch, Inc.</i>	<i>Utility Department Coal Analysis</i>
Fuel Supplier	Peabody
Sampler Initial	HL
Date:	05/15/07
Time:	0800

## STATEMENT OF BASIS

### Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Part 70 Operating Permit Application, dated May 1997 (with April 1999 supplements);
- 2) Part 70 Operating Permit Application Supplement, received November 27, 2006 (to incorporate the Manufactures Railway facility into the Title V operating permit)
- 3) 2009 Emissions Inventory Questionnaire;
- 4) U.S. EPA document AP-42, Compilation of Air Pollutant Emission Factors; Volume I, Stationary Point and Area Sources, Fifth Edition.
- 5) Nitrogen Oxides RACT Rule (10 CSR 10-5-510) Compliance Plan, dated January 22, 2002.

### Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

#### 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*

This rule had not been created at the time of application; however, it has been determined to be applicable to the installation and, therefore, has been included in the operating permit.

#### 10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*

This rule had not been created at the time of application; however, it has been determined to be applicable to the installation and, therefore, has been included in the operating permit.

#### 10 CSR 10-6.280, Compliance Monitoring Usage

On December 5, 2001, the Air Pollution Control Program received a letter from EPA Region VII stating EPA had determined that the language in the State Implementation Plan regarding credible evidence is an applicable requirement and must be included in each Title V operating permit. On July 2, 2002, the Air Pollution Control Program responded to EPA Region VII and agreed to include 10 CSR 10-6.280, Compliance Monitoring Usage, in the Core Permit Requirements Section of the Title V operating permit to address the issue.

#### 10 CSR 10-6.180, *Measurement of Emissions of Air Contaminants*

This rule has been included in the operating permit in order to provide citing for the allowance of requests for emissions data results. On past forms issued by the Air Pollution Control Program, including the application for this permit, it was automatically marked as an administrative rule not required to be listed as an applicable requirement. It is no longer judged to be solely administrative and is, therefore, included in the operating permit.

#### 10 CSR 10-6.400, *Restriction of Emission of Particulate Matter From Industrial Processes*

This rule had not been created at the time of application; however, it has been determined to be applicable to the installation and, therefore, has been included in the operating permit.

10 CSR 10-5.240, *Additional Air Quality Control Measures May be Required When Sources Are Clustered in a Small Land Area*

This rule has been included in the operating permit as per policy of the Missouri Department of Natural Resources for every source within the St. Louis Metropolitan Area.

10 CSR 10-6.100, *Alternate Emission Limits*

This rule has been included in the operating permit because the rule is a core permit requirement.

**Other Air Regulations Determined Not to Apply to the Operating Permit**

The Air Pollution Control Program (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

St. Louis City Ordinances Nos. 50163, 55100, 55923, 58040, 59270, 60023, and 60629

These ordinances were reviewed and considered at the time the application for this permit was submitted. Since that time, these ordinances have been repealed and replaced with St. Louis City Ordinance No. 64749. The only section of Ordinance 64749 that corresponds to a rescinded ordinance included in the State SIP and therefore federally enforceable is Section 17 - Open Burning Restrictions. This section is the only section listed in this Operating Permit.

10 CSR 10-5.150, *Emissions of Certain Sulfur Compounds Restricted*

This rule has been rescinded. Control of emissions of sulfur dioxide is addressed in 10 CSR 10-6.260.

10 CSR 10-5.050, *Restriction of Emission of Particulate Matter From Industrial Processes*

This rule has been rescinded and been replaced by 10 CSR 10-6.400.

10 CSR 10-5.120, *Information on Sales of Fuels to be Provided and Maintained*

Every delivery of coal or residual fuel oil when first delivered to a consumer or wholesaler in the St. Louis metropolitan area must be accompanied by a ticket prepared in triplicate and containing at least the name and address of the seller and the buyer; the grade of fuel; ash content of coal, the source of the fuel, which must be an approved source, and such other information as the Air Conservation Commission may require. One copy of each ticket shall be kept by the person delivering the fuel and be retained for one year; one copy is to be given to the recipient of the fuel to be retained for one year; and, upon request, within 30 days after delivery of the fuel, the delivering party shall mail one copy to the Air Conservation Commission.

10 CSR 10-6.240, *Asbestos Abatement Projects-Registration, Notification and Performance Requirements*

This rule has not been included in the operating permit because the rule was struck down in the Cole County circuit court

### Construction Permit Revisions

The following revisions were made to construction permits for this installation:

- 1) City of St. Louis Construction Permit No. 04-06-012  
This permit supercedes the limitations, conditions and recordkeeping requirements contained in Permit No. 01-09-028 which superceded the limitations, conditions and record keeping requirements of the following permits:  
01-09-029 – Stockhouse;  
95-04-051A – Beer Finishing Equipment in Stockhouse 19;  
99-06-040 – Permit Matter for Permit No. 95-04-051A and Permit No. 96-08-070;  
00-07-039 – Permit Matter for Permit No. 95-04-051A and Permit No. 96-08-070;  
96-08-070 – Carbon Dioxide Regeneration System Unit #3; and  
96-01-005PM2 – Filler Operations. This permit replaced Permit #s 96-01-005 and 96-01-005PM.
- 2) City of St. Louis Construction Permit No. 96-01-005PM (dated February 7, 2001).  
Permit No. 96-01-005 (dated April 26, 1996) was to cover all filling operations, yet the filling operation of Line 39 was allowed to be permitted separately (Permit No. 98-11-075 (dated December 17, 1998)). Permit No. 96-01-005PM consolidates all filler operations under one permit and replaces Permit No. 96-01-005. The filling operation of Permit No. 98-11-075 is incorporated into Permit No. 96-01-005PM.
- 3) City of St. Louis Construction Permit No. 99-06-041A (dated August 5, 2003), Corporate Graphics permit for lithographic presses and plate-making stations.  
This permit supercedes all limitations, conditions, reporting and record keeping requirements of Permit Nos. 96-03-028 (dated 6/27/1996) and 96-10-088 (dated 11/21/1996), Permit Matter 99-06-041 (dated 6/8/199) and 96-03-028 Excluded Activity Letter (dated 04/06/2000).
  - a) Permit No. 96-03-028 — This permit was issued for the construction and operation of the following presses and plate-making stations with annual usage limits of 16,056 lbs of ink, 28,451 lbs of blanket, roller wash and solvents, and 93,048lbs of developer.

1985 Heidelberg, Model #TOK Duplicator	1984 AB Dick
1984 Heidelberg, Model #Kord 64	1985 Heidelberg, Model #MOS
1985 Heidelberg, Model MOZ	1985 Antec Plate Developer
Loge Excel 26 Photochemical Developer	Loge LL2100 Photochemical Developer

The permit was modified in 2000 to replace three of the lithographic presses (TOK Duplicator, AB Dick and Kord 64) with one lithographic printer (2000 Heidelberg, Model #QM46-2) as a like kind replacement and also removed the Antec Plate Developer.
  - b) Permit No. 96-10-088 — Issued for the installation of another plate-making station (1996 Screen USA LD-T1060) with annual usage limits of 27,900 lbs of fixer and 21,900 lbs of developer.
  - c) Permit Matter 99-06-041 — The two annual usage rate limitations for developer usage (93,048 lbs and 21,900 lbs) have been combined into one annual usage condition of 114,948 lbs.
  - d) The intent of modifying permits 96-03-028 and 96-10-088 is to specifically state that this permit (Permit No. 99-06-041A does regulate all lithographic presses and plate processors under a combined emission limitation (as approved in Permit Matter 99-06-041 letter) and to establish an updating procedure for new/removed lithographic presses and plate processors.

- e) Since the issuance of these permits, Anheuser-Bosch has removed all permitted equipment and ceased all activity related to the Corporate Graphics.
- 4) City of St. Louis Construction Permit No. 96-07-058A (dated November 8, 1996); Permit Matter dated June 10, 1999) and October 10, 2002 Amendment letter.  
Permit No. 96-07-058A is applicable to the Standby Power Generator. Permit No. 96-07-058A includes two permit conditions that limit hours of operation. The October 10, 2002 letter amended Permit No. 96-07-058A by removing the four hours per month operational limitation. The annual emissions provided in the permit were calculated based on the permitted hours of operation. Emissions are adequately limited via the hours of operation limitations that are incorporated in the Part 70 Operating Permit. Therefore, no limitations are established for annual emissions. (Permit Matter dated June 10, 1999).
- 5) City of St. Louis Construction Permit No. 03-04-005 Building 149A Paint Booth & Building 137 Solvent Clean up Hood Amendment (dated July 22, 2003).  
This permit covers Paint Booth 1 in Building 149A and Paint Booth 2 in Building 137. This permit supercedes all limitations, conditions and record keeping requirements of permits dated November 18, 1992, and August 23, 1993, Paint Booth 2 Source Registration (City of St. Louis, dated August 3, 1993); Permit Matter No. 99-06-042 (dated June 14, 1999).  
Paint Booth #2 is converted to be used for solvent clean up. No painting will take place in 137 lab hood type booth. The solvent clean up hood will be used to remove paint from the applicators and not for metal cleaning, therefore is not subject to 10 CSR 10-5.300, *Control of Emissions from Solvent Metal Cleaning*.
- 6) In a letter dated November 13, 2003, Anheuser-Busch notified the City of St. Louis Division of Air Pollution that Paint Booth 1 in Building 149A has been shut down.
- 7) City of St. Louis Construction Permit No. 94-07-051 (dated 8/14/1995); Permit Matter No. 99-06-035 (dated June 10, 1999).  
Permit No. 94-07-051 is applicable to the Bioenergy Recovery System. One of the record keeping requirements requires that the quantity of wastewater treated be recorded. This parameter is regulated under other applicable environmental requirements, and thus, the record keeping requirement has been eliminated. (Permit Matter No. 99-06-035). The other Permit No. 94-07-051 conditions are incorporated in the Part 70 Operating Permit.
- 8) Chill Proofing Process — ACP Process Permit (City of St. Louis, dated February 10, 1993)  
The Chill Proofing Process Permit includes permit conditions for emissions and throughput. The emissions throughput limitations are eliminated because the process is out-of-service. As a result, the Chill Proofing Process Permit is not incorporated in the P70 Operating Permit.
- 9) Grain Unloading System Permit (City of St. Louis, dated May 6, 1992); Permit Matter No. 99-06-037 (dated June 10, 1999).  
The following emission units have been replaced with “like-kind” units that are not vented. Therefore, no permit requirements exist for the units. (Permit Matter No. 99-06-037).  
a) GU200 -- Magnetic Separator, Grain Unloading 1  
b) GU203 -- Magnetic Separator, Grain Unloading 2

c) GU206 -- Magnetic Separator, Grain Unloading 3

- 10) City of St. Louis Construction Permit No. 97-02-016PM2 (dated March 12, 2001)  
Modification of the 100,000 gallon capacity storage tank:  
Permit No. 97-02-016PM2 (dated March 12, 2001) modified Permit No. 97-02-016 to regulate all packaging coders under one emission limitation and to establish an updating procedure for new or removed coders.
- 11) City of St. Louis Source Registration Permit No.: SR01.049 (dated October 1, 2001)  
Permit No. SR01-049 replaced permit issued on September 27, 1993. The new permit (SR01-049) allowed an increase in the annual throughput of 500,000 to 19,447,200 gallon per year and a change in fuel type from No. 6 to No. 2 fuel oil.
- 12) City of St. Louis Source Registration Permit No.: SR00.018PM (dated March 27, 2003)  
Source Registration Permit No. SR01-018PM replaced permit number SR00.018 issued on March 29, 2000. The new permit (SR01-018PM) revised the opacity condition of the original permit allowing exceptions during SSM conditions.
- 13) Miscellaneous Source Registrations (City of St. Louis).  
The following emission units have been removed from service. Therefore, no source registration requirements exist for the units.
  - RH151 – Spent Grains Dryer 1, Building 158A
  - RH152 – Cooling Cyclone 1, Building 158A
  - RH153 – Spent Grain Dryer 2, Building 158A
  - RH154 - Cooling Cyclone 2, Building 158A
  - RH162 – Dried Grains Loadout – Railcar
  - SH173 – Precoat and Body Feed Tank, Building 229
  - SH253 -- Schoene Receivers (4)
  - SH254 -- Schoene Tank, Stockhouse #1
  - SH258 -- Schoene Tanks, Stockhouses #7 and #9
  - SH262 -- Schoene Beer Balance Tanks
  - SH263 -- Filter Beer Balance Tank #1
  - SH264 -- Filter Beer Balance Tank #2
  - SH265 -- Filter Beer Balance Tank #3
  - SH266 -- Filter Beer Tanks, Stockhouses #7 and #9
  - SH273 -- Schoene Tanks, Stockhouse #12
  - SH277 -- Filter Beer Tanks, Stockhouse #8
  - SH280 -- Spent D.E. Slurry Tank
  - SH285 -- K-1 Filter
  - SH286 -- K-2 Filter
  - SH287 -- K-3 Filter
  - SH288 -- K-4 Filter
  - T351 -- Vehicle Diesel Tank

- 14) The following units (equipment) have not been operated for more than five years and are slated for demolition. Therefore, they are not included in the operating permit.
- RH159 - Dry Grains Screw Conveyor, Building 158S
  - RH160 – Dry Grains Bins, Screw and Bucket Conveyors, Building 158
  - RH161 – Grain Dust Transfer from Grain Handling, Building 158
  - RH163 – Dried Grains Loadout – Truck 1, Building 158
  - RH164 - Dried Grains Loadout – Truck 2, Building 158
  - RH167 – Dry Grains Transfer Cyclone and Filter Receiver, Building 158
  - RH168 – Dried Grains Vacuum Cleaner, Building 158
- 15) Permit 95-05-064 – Ammonia Recovery System Permit  
This permit was issued on July 24, 1995, for the Ammonia Recovery System and a Corrosion Inhibitor Tank. The permit stated that the maximum emissions of two pounds of VOC from the corrosion inhibitor and 120 pounds of ammonia from the ammonia pump out system per year. On April 18, 2003, the City of St. Louis Air Pollution Control nullified this permit because ammonia is neither a VOC nor a HAP and emissions are very low to be subject to 10 CSR 10-6.060. Requiring limitations and record keeping for the Ammonia Recovery System is overly burdensome.
- 16) Permit No. 04-11-020 – Amendments to Grain Handling Permits  
This permit was issued on January 26, 2004, to amend the four (4) grain handling permits for the different grain handling processes at the installation. This permit shall supercede the limitations, conditions and record keeping requirements contained in Grain Unloading Permit dated May 6, 1992, Grain Transfer Permit dated May 6, 1992, Grain Cleaner Permit dated May 6, 1992, and Grain Milling Permit dated May 6, 1992.
- 17) Permit No. 07-07-010 – This permit supercedes the limitations, conditions and record keeping requirements contained in Permit No. 95-10-130.
- 18) Permit No. 09-12-025 — This permit supercedes the limitations, conditions and record keeping requirements contained in Permit No. 04-06-012.

#### **New Source Performance Standards (NSPS) Applicability**

10 CSR 10-6.070, *New Source Performance Regulations*

40 CFR Part 60, Subpart D, *Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971.*

The provisions of this subpart apply to each fossil-fuel-fired steam generating unit of more than 73 megawatts heat input rate (250 million Btu per hour) constructed or modified after August 17, 1971, and not covered under Subpart Da.

None of the boilers are electric utility steam generating units as defined in this subpart, therefore this subpart does not apply to this installation.

40 CFR Part 60, Subpart Da, *Standards of Performance for Electric Utility Steam Generating Units for Which Construction is commenced After September 18, 1978.*

The provisions of this subpart apply to each electric utility fossil-fuel-(either alone or in combination with any other fuel) fired steam generating unit of more than 73 megawatts heat input rate (250 million Btu per hour) constructed or modified after September 18, 1978. None of the boilers are electric utility steam generating units as defined in this subpart, therefore this subpart does not apply to this installation.

40 CFR Part 60, Subpart Db, *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.*

The provisions of this subpart apply to each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 MW (100 million Btu/hour).

Boiler 1 (EU0101) ,MMBtu/hr, Boiler 5 (EU102) and Boiler 7 (EU0103) rated at greater than 100 MMBtu/hr commenced construction prior to June 19, 1984, therefore are not subject to this subpart.

40 CFR Part 60, Subpart Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.*

This subpart applies to each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu/hr) or less, but greater than or equal to 2.9 MW (10 million Btu/hr).

Boiler 8 (EU0104) and Boiler 9 (EU0105) are rated at 99 MMBtu/Hr and were constructed in 1988, therefore are not subject to this subpart.

40 CFR Part 60, Subpart K, *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction Or Modification Commenced After June 11, 1973, and Prior to May 19, 1978.*

The St. Louis Brewery does not have any petroleum tanks installed between 1973, and 1978, that are subject to this regulation.

40 CFR Part 60, Subpart Ka, *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction Or Modification Commenced After May 19, 1978, and Prior to July 23, 1984.*

The St. Louis Brewery does not have any petroleum tanks installed between 1978, and 1984, that are subject to this regulation.

40 CFR Part 60, Subpart Kb, *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction Or Modification Commenced After July 23, 1984.*

This subpart applies to any tank storing a volatile liquid with a design capacity greater than or equal to 40 cubic meters (10,566-gallons) and installed after July 23, 1984. Note - Volatile organic liquid (VOL) as defined in this subpart means any organic liquid which can emit volatile organic compounds into the atmosphere except those VOL's that emit only those compounds which the

Administrator has determined do not contribute appreciably to the formation of ozone. The installation has a 100,000 gallon fuel oil tank (EU1001) constructed/retrofitted after July 1984, that is subject to paragraphs (a) and (b) of §60.110b of this subpart.

NOTE: This subpart does not apply to vessels used to store beverage alcohol.

40 CFR Part 60, Subpart Y, *Standards of Performance for Coal Preparation Plants.*

The provisions of this subpart are applicable to any of the following affected facilities in coal preparation plants which process more than 181 Mg (200 tons) per day and commenced construction or modification after October 24, 1974: Thermal dryers, pneumatic coal-cleaning equipment (air tables), coal processing and conveying equipment (including breakers and crushers), coal storage systems, and coal transfer and loading systems.

The installation operates coal processing units where coal is dumped from the truck into an underground hopper. The hopper feeds a conveying system that is initially underground for about ~200 feet then feeds to a classifier. Classified coal is then conveyed into another conveyor contained inside a building (all coal conveying equipment is inside a building). This secondary conveyor places coal into the coal bunkers. All coal received is required to be wet. The coal handling operations has the capacity to process more than 200 tons of coal per day and were constructed/modified after the applicability date. Therefore, the coal processing units are subject to Subpart Y.

40 CFR Part 60, Subpart DD, *Standards of Performance for Grain Elevators*

The provisions of this subpart apply to each affected facility at any grain terminal elevator or any grain storage elevator, except as provided under §60.304(b). The affected facilities are each truck unloading station, truck loading station, barge and ship unloading station, barge and ship loading station, railcar loading station, railcar unloading station, grain dryer, and all grain handling operations which commences construction, modification, or reconstruction after August 3, 1978.

Per §60.301, definitions, grain elevators located at animal food manufacturers, pet food manufacturers, cereal manufacturers, breweries, and livestock feedlots are excluded from the requirements this subpart.

**Maximum Achievable Control Technology (MACT) Applicability**

40 CFR Part 63, Subpart ZZZZ, *National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*

The installation operates standby power generator (EU0201) and emergency diesel generator (EU0202) whose operations are limited to emergency situations. According to §63.6590(b)(3), an existing emergency stationary RICE or an existing limited use stationary RICE does not have to meet the requirements of this subpart and of subpart A of this part and no initial notification is necessary. Therefore the installation is not subject to this subpart.

40 CFR Part 63, Subpart MMMM, *National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*

This rule applies to a facility that owns or operates a miscellaneous metal parts and products surface coating operation that is a major source, or is located at a major source, or is part of a major source

of HAP emissions. An affected source that uses 946 liters (250 gallons) per year, or more, of coatings that contain hazardous air pollutants (HAP) could be subject to this rule.

The St. Louis Brewery and the Manufacturer's Railway Operation combined have never utilized more than 250 gallons of HAP containing paint in any given year for the painting of miscellaneous metal parts, the installation is exempt from the requirements of this rule under 40 CFR 63.3881(b).

40 CFR Part 63, Subpart CCCC, *National Emission Standards for Hazardous Air Pollutants: Manufacturing of Nutritional Yeast*

This subpart applies to nutritional yeast manufacturing facilities that are, are located at, or are part of a major source of hazardous air pollutants (HAPs) emissions.

A manufacturer of nutritional yeast is a facility that makes yeast for the purpose of becoming an ingredient in dough for bread or any other yeast-raised baked product, or for becoming a nutritional food additive intended for consumption by humans. A manufacturer of nutritional yeast does not include production of yeast intended for consumption by animals, such as an additive for livestock feed.

The St. Louis Brewery does not use yeast in dough, yeast raised baked products or for becoming a nutritional food additive. Therefore, the St. Louis Brewery is not subject to this subpart

**NESHAP Applicability**

10 CSR 10-6.080, *Emission Standards for Hazardous Air Pollutants*

40 CFR Part 61 Subpart M – *National Emission Standard for Asbestos*, §61.145(a), Standard for demolition and renovation, applies to the installation.

**Other Regulatory Determinations**

1) 10 CSR 10-5.030, *Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating*

The brewery operates the following fuel burning equipment used for indirect heating:

- EU0101 – Boiler 1 (constructed 1985) -- 230 MMBtu/hr
- EU0102 – Boiler 5 (constructed 1948) -- 240 MMBtu/hr
- EU0103 – Boiler 7 (constructed 1966) -- 232.6 MMBtu/hr
- EU0104 – Boiler 8 (constructed 1988) -- 99 MMBtu/hr
- EU0105 – Boiler 9 (constructed 1988) -- 99 MMBtu/hr

The PM emission limitation for existing sources (installed on or before February 15, 1979) was calculated using the equation,  $E = 1.09(Q)^{-0.259}$ , where Q = the total heat input of all existing indirect heating sources and E = the maximum allowable particulate emission rate in pounds per million Btu of heat input, rounded off to two (2) decimal places. (This limit is applied to each existing indirect heating source).

$$E = 1.09(472.6)^{-0.259} = 0.20 \frac{lbs}{MMBtu}$$

The total heat input of all new and existing sources was used to determine the PM emission limitation that is applied to each new indirect heating source using the equation  $E = 0.80(Q)^{-0.301}$ . since the total heat input of all new and existing is less than 1,000 MMBtu/hr

$$E = 0.80(900.6)^{-0.301} = 0.10 \frac{\text{lbs}}{\text{MMBtu}}$$

- 2) 10 CSR 10-6.400, *Restriction of Emission of Particulate Matter From Industrial Process*
- a) Calculation of the PM limits and emission rates of emission units subject to 10 CSR 10-6.400. Process information and data used in these calculations are from the 2000 EIQ and P70 A-B Draft, Table VI-3.1:

EU0401 – Malt Filter/Receiver, Grain Transfer 1 (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr

Exhaust Stack Temperature (T) = 70°F

Exhaust Flow Rate = 3380 ACFM

SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 3367 scfm

Emission Limit (lb/hr) = 55P<sup>0.11</sup> - 40 = 55 × 67.5<sup>0.11</sup> - 40 = 47.42 lb PM/hr

PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)

Control Device (Fabric Filter) = 99.7

PM Uncontrolled Emission = 67.5 ton/ hr × 0.45 lb/ton = 30.38 lb/hr

PM Controlled Emission = 30.38 lb/hr × (1 - 0.997) = 0.09 lb/hr

PM Concentration = (0.09 lb/hr × 7000 gr/lb) ÷ (3367 scfm × 60 min/hr) = 0.003 gr/scf

EU0402 – Rice/Corn/Special Malt Filter/Receiver, Grain Transfer 2 (EIQ Ref. # GT300)

Process Weight rate (P) = 33.75 ton/hr

Exhaust Stack Temperature (T) = 70°F

Exhaust Flow Rate = 2100 ACFM

SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 2092 scfm

Emission Limit (lb/hr) = 55P<sup>0.11</sup> - 40 = 55 × 33.75<sup>0.11</sup> - 40 = 41.00 lb PM/hr

PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)

Control Device (Fabric Filter) = 99.7

PM Uncontrolled Emission = 33.75 ton/ hr × 0.45 lb/ton = 15.19 lb/hr

PM Controlled Emission = 15.19 lb/hr × (1 - 0.997) = 0.05 lb/hr

PM Concentration = (0.05 lb/hr × 7000 gr/lb) ÷ (2092 scfm × 60 min/hr) = 0.003 gr/scf

EU0403 – Rice/Corn/Malt Filter/Receiver, Grain Transfer 3 (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr

Exhaust Stack Temperature (T) = 70°F

Exhaust Flow Rate = 3380 ACFM

SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 3367 scfm

Emission Limit (lb/hr) = 55P<sup>0.11</sup> - 40 = 55 × 67.5<sup>0.11</sup> - 40 = 47.42 lb PM/hr

PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)

Control Device (Fabric Filter) = 99.7

PM Uncontrolled Emission = 67.5 ton/ hr × 0.45 lb/ton = 30.38 lb/hr

PM Controlled Emission = 30.38 lb/hr × (1 - 0.997) = 0.09 lb/hr

PM Concentration = (0.09 lb/hr × 7000 gr/lb) ÷ (3367 scfm × 60 min/hr) = 0.003 gr/scf

EU0404 – Emergency Truck Loadout Grain Transfer #1 (EIQ Ref. # GT34)

Process Weight rate (P) = 67.5 ton/hr  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 67.5^{0.11} - 40 = 47.42$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = None  
PM Uncontrolled Emission = 67.5 ton/ hr  $\times$  0.45 lb/ton = 30.38 lb/hr

EU0405 – Rice Cleaner 1 (EIQ Ref. # GT300)

EU0406 – Malt Cleaner 2 (EIQ Ref. # GT300)

EU0407 – Malt Cleaner 3 (EIQ Ref. # GT300)

EU0408 – Rice/Corn/Malt Cleaner 4 (EIQ Ref. # GT300)

EU0409 – Rice/Corn/Malt Cleaner 5 (EIQ Ref. # GT300)

Process Weight rate (P) = 33.75 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 21250 ACFM  
SCFM =  $(ACFM \times 528^\circ R) \div (T^\circ F + 460^\circ R) = 21170$  scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 33.75^{0.11} - 40 = 41.00$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 33.75 ton/ hr  $\times$  0.45 lb/ton = 15.19 lb/hr  
PM Controlled Emission = 15.19 lb/hr  $\times$  (1 – 0.997) = 0.05 lb/hr  
PM Concentration =  $(0.05 \text{ lb/hr} \times 7000 \text{ gr/lb}) \div (21250 \text{ scfm} \times 60 \text{ min/hr}) = 0.0003$  gr/scf

EU0410 – Malt Milling Filter/Receiver, Grain Transfer 5 (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 1810 ACFM  
SCFM =  $(ACFM \times 528^\circ R) \div (T^\circ F + 460^\circ R) = 1803$  scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 67.5^{0.11} - 40 = 47.42$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 67.5 ton/ hr  $\times$  0.45 lb/ton = 30.38 lb/hr  
PM Controlled Emission = 30.38 lb/hr  $\times$  (1 – 0.997) = 0.09 lb/hr  
PM Concentration =  $(0.09 \text{ lb/hr} \times 7000 \text{ gr/lb}) \div (1803 \text{ scfm} \times 60 \text{ min/hr}) = 0.006$  gr/scf

EU0411 – Rice/Corn/Special Malt Filter/Receiver, Grain Transfer 6 (EIQ Ref. # GT300)

Process Weight rate (P) = 33.75 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 1640 ACFM  
SCFM =  $(ACFM \times 528^\circ R) \div (T^\circ F + 460^\circ R) = 1634$  scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 33.75^{0.11} - 40 = 41.00$  PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 33.75 ton/ hr  $\times$  0.45 lb/ton = 15.19 lb/hr  
PM Controlled Emission = 15.19 lb/hr  $\times$  (1 – 0.997) = 0.05 lb/hr  
PM Concentration =  $(0.05 \text{ lb/hr} \times 7000 \text{ gr/lb}) \div (1634 \text{ scfm} \times 60 \text{ min/hr}) = 0.004$  gr/scf

EU0412 – Rice/Corn/Malt Filter/Receiver, Grain Transfer 7 (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 1810 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 1803 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 67.5^{0.11} - 40 = 47.42$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 67.5 ton/ hr × 0.45 lb/ton = 30.38 lb/hr  
PM Controlled Emission = 30.38 lb/hr × (1 – 0.997) = 0.09 lb/hr  
PM Concentration = (0.09 lb/hr × 7000 gr/lb) ÷ (1803 scfm × 60 min/hr) = 0.006 gr/scf

EU0413 – Malt Surge Bins, Grain Transfer 5 (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 5500 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 5479 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 67.5^{0.11} - 40 = 47.42$  lb PM/hr  
PM Emission Factor = 1.05 lb PM/ton (FT. Collins Appl. A-B)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 67.5 ton/ hr × 1.05 lb/ton = 70.88 lb/hr  
PM Controlled Emission = 70.88 lb/hr × (1 – 0.997) = 0.21 lb/hr  
PM Concentration = (0.21 lb/hr × 7000 gr/lb) ÷ (5479 scfm × 60 min/hr) = 0.004 gr/scf

EU0414 – Hopper/Feeder - Malt Line from Cleaners 2 & 3 (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 13200 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 13150 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 67.5^{0.11} - 40 = 47.42$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 67.5 ton/ hr × 0.45 lb/ton = 30.38 lb/hr  
PM Controlled Emission = 30.38 lb/hr × (1 – 0.997) = 0.09 lb/hr  
PM Concentration = (0.09 lb/hr × 7000 gr/lb) ÷ (13150 scfm × 60 min/hr) = 0.0008 gr/scf

EU0415 – Hopper/Feeder – Rice Grits from Cleaners 4 & 5 (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 21250 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 21170 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 67.5^{0.11} - 40 = 47.42$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 67.5 ton/ hr × 0.45 lb/ton = 30.38 lb/hr  
PM Controlled Emission = 30.38 lb/hr × (1 – 0.997) = 0.09 lb/hr  
PM Concentration = (0.09 lb/hr × 7000 gr/lb) ÷ (21170 scfm × 60 min/hr) = 0.0005 gr/scf

EU0416 – Hopper/Feeder from Cleaners 1 (EIQ Ref. # GT300)

Process Weight rate (P) = 33.75 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 13200 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 13150 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 33.75^{0.11} - 40 = 41.00$  PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 33.75 ton/ hr × 0.45 lb/ton = 15.19 lb/hr  
PM Controlled Emission = 15.19 lb/hr × (1 - 0.997) = 0.05 lb/hr  
PM Concentration = (0.05 lb/hr × 7000 gr/lb) ÷ (13150 scfm × 60 min/hr) = 0.0004 gr/scf

EU0417 – Malt Distribution Bin, Grain Transfer 5 (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 5500 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 5479 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 67.5^{0.11} - 40 = 47.42$  lb PM/hr  
PM Emission Factor = 1.05 lb PM/ton (FT. Collins Appl. A-B)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 67.5 ton/ hr × 1.05 lb/ton = 70.88 lb/hr  
PM Controlled Emission = 70.88 lb/hr × (1 - 0.997) = 0.21 lb/hr  
PM Concentration = (0.21 lb/hr × 7000 gr/lb) ÷ (5479 scfm × 60 min/hr) = 0.004 gr/scf

EU0418 – Malt Mills (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 5500 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 5479 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 67.5^{0.11} - 40 = 47.42$  lb PM/hr  
PM Emission Factor = 2.10 lb PM/ton (FT. Collins Appl. A-B)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 67.5 ton/ hr × 2.10 lb/ton = 141.75 lb/hr  
PM Controlled Emission = 14.75 lb/hr × (1 - 0.997) = 0.43 lb/hr  
PM Concentration = (0.43 lb/hr × 7000 gr/lb) ÷ (5479 scfm × 60 min/hr) = 0.009 gr/scf

EU0419 – Scale Hoppers (EIQ Ref. # GT300)

EU0420 – Malt Surge Bins (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 5500 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 5479 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 67.5^{0.11} - 40 = 47.42$  lb PM/hr  
PM Emission Factor = 1.05 lb PM/ton (FT. Collins Appl. A-B)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 67.5 ton/ hr × 1.05 lb/ton = 70.88 lb/hr  
PM Controlled Emission = 70.88 lb/hr × (1 - 0.997) = 0.21 lb/hr  
PM Concentration = (0.21 lb/hr × 7000 gr/lb) ÷ (5479 scfm × 60 min/hr) = 0.004 gr/scf

EU0421 – Rice Surge Bin (EIQ Ref. # GT300)

EU0422 – Corn Surge Bins (EIQ Ref. # GT300)

Process Weight rate (P) = 33.75 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 5500 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 5479 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 33.75^{0.11} - 40 = 41.00$  lb PM/hr  
PM Emission Factor = 1.75 lb PM/ton (FT. Collins Appl. A-B)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 33.75 ton/ hr × 1.75 lb/ton = 59.06 lb/hr  
PM Controlled Emission = 59.06 lb/hr × (1 – 0.997) = 0.18 lb/hr  
PM Concentration = (0.18 lb/hr × 7000 gr/lb) ÷ (5479 scfm × 60 min/hr) = 0.004 gr/scf

EU0423 – Rice Mills (EIQ Ref. # GT300)

Process Weight rate (P) = 33.75 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 5500 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 5479 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 33.75^{0.11} - 40 = 41.00$  lb PM/hr  
PM Emission Factor = 3.5 lb PM/ton (FT. Collins Appl. A-B)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 33.75 ton/ hr × 3.5 lb/ton = 118.13 lb/hr  
PM Controlled Emission = 118.13 lb/hr × (1 – 0.997) = 0.35 lb/hr  
PM Concentration = (0.35 lb/hr × 7000 gr/lb) ÷ (5479 scfm × 60 min/hr) = 0.007 gr/scf

EU0424 – Scale Hoppers (EIQ Ref. # GT300)

Process Weight rate (P) = 33.75 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 5500 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 5479 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 33.75^{0.11} - 40 = 41.00$  lb PM/hr  
PM Emission Factor = 1.75 lb PM/ton (FT. Collins Appl. A-B)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 33.75 ton/ hr × 1.75 lb/ton = 59.06 lb/hr  
PM Controlled Emission = 59.06 lb/hr × (1 – 0.997) = 0.18 lb/hr  
PM Concentration = (0.18 lb/hr × 7000 gr/lb) ÷ (5479 scfm × 60 min/hr) = 0.004 gr/scf

EU0425 – Malt Dust Transfer Filter/Receiver (EIQ Ref. # GT300)

Process Weight rate (P) = 67.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 196 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 195 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 67.5^{0.11} - 40 = 47.42$  lb PM/hr  
PM Emission Factor = 4.2 lb PM/ton (FT. Collins Appl. A-B)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 67.5 ton/ hr × 4.20 lb/ton = 283.50 lb/hr  
PM Controlled Emission = 283.50 lb/hr × (1 – 0.997) = 0.85 lb/hr  
PM Concentration = (0.85 lb/hr × 7000 gr/lb) ÷ (195 scfm × 60 min/hr) = 0.05 gr/scf

EU0501 – Grain Unloading 1 (EIQ Ref. # GU300)

EU0502 – Grain Unloading 2 (EIQ Ref. # GU300)

Process Weight rate (P) = 52.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 3250 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 3238 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 52.5^{0.11} - 40 = 45.03$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 52.5 ton/ hr × 0.45 lb/ton = 23.63 lb/hr  
PM Controlled Emission = 23.63 lb/hr × (1 - 0.997) = 0.07 lb/hr  
PM Concentration = (0.07 lb/hr × 7000 gr/lb) ÷ (3238 scfm × 60 min/hr) = 0.003 gr/scf

EU0503 – Grain Unloading 3 (EIQ Ref. # GU300)

Process Weight rate (P) = 52.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 4150 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 4134 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 52.5^{0.11} - 40 = 45.03$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 52.5 ton/ hr × 0.45 lb/ton = 23.63 lb/hr  
PM Controlled Emission = 23.63 lb/hr × (1 - 0.997) = 0.07 lb/hr  
PM Concentration = (0.07 lb/hr × 7000 gr/lb) ÷ (4134 scfm × 60 min/hr) = 0.002 gr/scf

EU0504 – Pressure Vessel, Grain Unloading 1 (EIQ Ref. # GU300)

EU0505 – Pressure Vessel, Malt Grain Unloading 2 (EIQ Ref. # GU300)

Process Weight rate (P) = 52.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 2400 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 2391 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 52.5^{0.11} - 40 = 45.03$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 52.5 ton/ hr × 0.45 lb/ton = 23.63 lb/hr  
PM Controlled Emission = 23.63 lb/hr × (1 - 0.997) = 0.07 lb/hr  
PM Concentration = (0.07 lb/hr × 7000 gr/lb) ÷ (2391 scfm × 60 min/hr) = 0.003 gr/scf

EU0506 – Filter/Receiver 2B, Grain Unloading 2 (EIQ Ref. # GU300)

Process Weight rate (P) = 52.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 3250 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 3238 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 52.5^{0.11} - 40 = 45.03$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 52.5 ton/ hr × 0.45 lb/ton = 23.63 lb/hr  
PM Controlled Emission = 23.63 lb/hr × (1 - 0.997) = 0.07 lb/hr  
PM Concentration = (0.07 lb/hr × 7000 gr/lb) ÷ (3238 scfm × 60 min/hr) = 0.003 gr/scf

EU0507 – Filter/Receiver 3B, Grain Unloading 3 (EIQ Ref. # GU300)

Process Weight rate (P) = 52.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 3800 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 3786 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 52.5^{0.11} - 40 = 45.03$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 52.5 ton/ hr × 0.45 lb/ton = 23.63 lb/hr  
PM Controlled Emission = 23.63 lb/hr × (1 – 0.997) = 0.07 lb/hr  
PM Concentration = (0.07 lb/hr × 7000 gr/lb) ÷ (3786 scfm × 60 min/hr) = 0.002 gr/scf

EU0508 – Filter/Receiver 1B, Grain Unloading 1 (EIQ Ref. # GU300)

EU0509 – Filter/Receiver 2C, Grain Unloading 2 (EIQ Ref. # GU300)

Process Weight rate (P) = 52.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 3250 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 3238 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 52.5^{0.11} - 40 = 45.03$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 52.5 ton/ hr × 0.45 lb/ton = 23.63 lb/hr  
PM Controlled Emission = 23.63 lb/hr × (1 – 0.997) = 0.07 lb/hr  
PM Concentration = (0.07 lb/hr × 7000 gr/lb) ÷ (3238 scfm × 60 min/hr) = 0.003 gr/scf

EU0510 – Elevator C&D Conveyor, Grain Unloading 3 (EIQ Ref. # GU300)

Process Weight rate (P) = 52.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 13200 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 13150 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 52.5^{0.11} - 40 = 45.03$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 52.5 ton/ hr × 0.45 lb/ton = 23.63 lb/hr  
PM Controlled Emission = 23.63 lb/hr × (1 – 0.997) = 0.07 lb/hr  
PM Concentration = (0.07 lb/hr × 7000 gr/lb) ÷ (13150 scfm × 60 min/hr) = 0.0006 gr/scf

EU0511 – Elevator H Drag Conveyor, Grain Unloading 2 (EIQ Ref. # GU300)

Process Weight rate (P) = 52.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 8000 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 7970 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 52.5^{0.11} - 40 = 45.03$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 52.5 ton/ hr × 0.45 lb/ton = 23.63 lb/hr  
PM Controlled Emission = 23.63 lb/hr × (1 – 0.997) = 0.07 lb/hr  
PM Concentration = (0.07 lb/hr × 7000 gr/lb) ÷ (7970 scfm × 60 min/hr) = 0.001 gr/scf

EU0512 – Elevator C Drag Conveyor, Grain Unloading 1 (EIQ Ref. # GU300)

Process Weight rate (P) = 52.5 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 13200 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 13150 scfm  
Emission Limit (lb/hr) =  $55P^{0.11} - 40 = 55 \times 52.5^{0.11} - 40 = 45.03$  lb PM/hr  
PM Emission Factor = 0.45 lb PM/ton (Fire - SCC 30200901)  
Control Device (Fabric Filter) = 99.7  
PM Uncontrolled Emission = 52.5 ton/ hr × 0.45 lb/ton = 23.63 lb/hr  
PM Controlled Emission = 23.63 lb/hr × (1 – 0.997) = 0.07 lb/hr  
PM Concentration = (0.07 lb/hr × 7000 gr/lb) ÷ (13150 scfm × 60 min/hr) = 0.0006 gr/scf

EU0701 – D.E. Silo 1 (EIQ Ref. # SH171)

EU0702 – D.E. Silo 2 (EIQ Ref. # SH172)

Process Weight rate (P) = 10 ton/hr  
Exhaust Stack Temperature (T) = 70°F  
Exhaust Flow Rate = 600 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 598 scfm  
Emission Limit (lb/hr) =  $4.1P^{0.67} = 4.1 \times 10^{0.67} = 19.20$  lb PM/hr  
PM Emission Factor = 0.27 lb PM/ton (2000 EIQ)  
Control Device (Fabric Filter) = 99.70  
PM Uncontrolled Emission = 10 ton/ hr × 0.27 lb/ton = 2.70 lb/hr  
PM Controlled Emission = 2.70 lb/hr × (1 – 0.997) = 0.005 lb/hr  
PM Concentration = (0.008 lb/hr × 7000 gr/lb) ÷ (598 scfm × 60 min/hr) = 0.002 gr/scf

EU0703 – D.E Scale Tank (EIQ Ref. #SH314)

Process Weight rate (P) = 20 ton/hr  
Exhaust Stack Temperature (T) = 73°F  
Exhaust Flow Rate = 600 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 598 scfm  
Emission Limit (lb/hr) =  $4.1P^{0.67} = 4.1 \times 20^{0.67} = 30.50$  lb PM/hr  
PM Emission Factor = 0.27 lb PM/ton (2000 EIQ)  
Control Device (Fabric Filter) = 99.70  
PM Uncontrolled Emission = 20 ton/ hr × 0.27 lb/ton = 5.40 lb/hr  
PM Controlled Emission = 5.40 lb/hr × (1 – 0.997) = 0.016 lb/hr  
PM Concentration = (0.016 lb/hr × 7000 gr/lb) ÷ (598 scfm × 60 min/hr) = 0.003 gr/sc

EU0802 – Fly Ash Filter/Separator (EIQ Ref. #UT370)

Process Weight rate (P) = 4.14 ton/hr  
Exhaust Stack Temperature (T) = 77°F  
Exhaust Flow Rate = 900 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 885 scfm  
Emission Limit (lb/hr) =  $4.1P^{0.67} = 4.1 \times 4.14^{0.67} = 10.60$  lb PM/hr  
PM Emission Factor = 2000 lb PM/ton (2000 EIQ)  
Control Device (Fabric Filter) = 99.99  
PM Uncontrolled Emission = 4.14 ton/ hr × 2000 lb/ton = 8280 lb/hr  
PM Controlled Emission = 8280 lb/hr × (1 – 0.9999) = 0.83 lb/hr  
PM Concentration = (0.83 lb/hr × 7000 gr/lb) ÷ (885 scfm × 60 min/hr) = 0.12 gr/sc

EU0803 – Fly Ash Silo Bin Vent (EIQ Ref. #UT371)

Process Weight rate (P) = 4.14 ton/hr  
Exhaust Stack Temperature (T) = 77°F  
Exhaust Flow Rate = 352 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 346 scfm  
Emission Limit (lb/hr) =  $4.1P^{0.67} = 4.1 \times 4.14^{0.67} = 10.60$  lb PM/hr  
PM Emission Factor = 2000 lb PM/ton (2000 EIQ)  
Control Device (Fabric Filter) = 99.99  
PM Uncontrolled Emission = 4.14 ton/ hr × 2000 lb/ton = 8280 lb/hr  
PM Controlled Emission = 8280 lb/hr × (1 – 0.9999) = 0.83 lb/hr  
PM Concentration = (0.83 lb/hr × 7000 gr/lb) ÷ (346 scfm × 60 min/hr) = 0.28 gr/sc

EU0804 – Bottom Ash Filter/Separator (EIQ Ref. #UT372)

Process Weight rate (P) = 1.92 ton/hr  
Exhaust Stack Temperature (T) = 77°F  
Exhaust Flow Rate = 1916 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 1884 scfm  
Emission Limit (lb/hr) =  $4.1P^{0.67} = 4.1 \times 1.92^{0.67} = 6.40$  lb PM/hr  
PM Emission Factor = 2000 lb PM/ton (2000 EIQ)  
Control Device (Fabric Filter) = 99.99  
PM Uncontrolled Emission = 1.92 ton/ hr × 2000 lb/ton = 3840 lb/hr  
PM Controlled Emission = 3840 lb/hr × (1 – 0.9999) = 0.38 lb/hr  
PM Concentration = (0.38 lb/hr × 7000 gr/lb) ÷ (1884 scfm × 60 min/hr) = 0.02 gr/sc

EU0805 – Bottom Ash Silo Bin Vent (EIQ Ref. #UT373)

Process Weight rate (P) = 1.92 ton/hr  
Exhaust Stack Temperature (T) = 77°F  
Exhaust Flow Rate = 232 ACFM  
SCFM = (ACFM × 528°R) ÷ (T°F + 460°R) = 228 scfm  
Emission Limit (lb/hr) =  $4.1P^{0.67} = 4.1 \times 1.92^{0.67} = 6.40$  lb PM/hr  
PM Emission Factor = 2000 lb PM/ton (2000 EIQ)  
Control Device (Fabric Filter) = 99.99  
PM Uncontrolled Emission = 1.92 ton/ hr × 2000 lb/ton = 3840 lb/hr  
PM Controlled Emission = 3840 lb/hr × (1 – 0.9999) = 0.38 lb/hr  
PM Concentration = (0.38 lb/hr × 7000 gr/lb) ÷ (228 scfm × 60 min/hr) = 0.19 gr/sc

- b) Emission Units subject to 10 CSR 10-6.400 that have potential uncontrolled PM emissions significantly less than the allowable rate (limit) do not have monitoring/record keeping or reporting requirements.
- c) Units listed in the table below potentially emit less than 0.5 lbs of PM per hour and are exempt from the requirements of this rule per 10 CSR 10-6.400(1)(B)11.

EQ Ref. #	Unit Description	Max Design Rate (tons/hr)	Emission Factor (lbs/ton)	PM Potential Emission (lbs/hr)
GN306	Cardboard Baler	1.00	0.02	0.02
GN248	5 Vacuum Cleaner System	1.00	0.45	0.45
PB186	Malt Transfer from Elevator H to Pilot Brewery	1.00	0.45	0.45
PB223	Portable Grain Bins – Pilot Brewery	1.00	0.45	0.45
PB224	Malt Mill – Pilot Brewery	0.70	0.20	0.14
PB225	Portable Tote Bins – Pilot Brewery	1.00	0.45	0.45
SH428	ACP System – Stockhouse 19	0.20	0.27	0.05
SH434	Tannin/D.E. Manual Drop Station, Stockhouse 19	1.00	0.27	0.27
UT305	Bulk Salt System (Water Softener)	5.00	0.01	0.05

3) 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*

Historically, the St. Louis Brewery has not emitted visible emissions while under normal operation. Visible emissions observations will be performed in frequencies as stated in the permit and logged according to the monitoring and record keeping requirements. Detecting visible emissions is an indicator of operating problems and gives the permittee a chance to take corrective actions before exceeding the opacity limit. Conducting Method 9 observations after the observation of visible emissions determines whether the emissions exceed the opacity limit, or confirm that corrective action has restored operation. Therefore, the tiered monitoring frequency of visible/no visible emissions observations using Method 22 like procedures is considered sufficient.

4) 10 CSR 10-5.120, *Information on Sales of Fuels to be Provided and Maintained*

According to the Air Pollution Control Program's Enforcement Section letter dated April 20, 2010, the solid fuel-monitoring plan does appear to substantially meet, and partially exceed, the requirements of 10 CSR 10-5.120. This plan is also an enforceable condition of Construction Permit No. 07-07-010 which allows combustion of biomass and activated carbon in boiler 8 and boiler 9. As such incorporation of the plan in the operating permit would satisfy the requirements of 10 CSR 10-5-120. Therefore, this rule is not included in this permit.

5) The following units (equipment) have not been operated for more than five years and are slated for demolition. Therefore, they are not included in the operating permit.

- a) RH151 – Spent Grains Dryer 1, Building 158A
- b) RH152 – Cooling Cyclone 1, Building 158A
- c) RH153 – Spent Grain Dryer 2, Building 158A
- d) RH154 - Cooling Cyclone 2, Building 158A
- e) RH159 - Dry Grains Screw Conveyor, Building 158S
- f) RH160 – Dry Grains Bins, Screw and Bucket Conveyors, Building 158
- g) RH161 – Grain Dust Transfer from Grain Handling, Building 158
- h) RH163 – Dried Grains Loadout – Truck 1, Building 158
- i) RH164 - Dried Grains Loadout – Truck 2, Building 158
- j) RH167 – Dry Grains Transfer Cyclone and Filter Receiver, Building 158
- k) RH168 – Dried Grains Vacuum Cleaner, Building 158
- l) SH173 – Precoat and Body System, Building 229(Stockhouse 19), 2<sup>nd</sup> Floor

6) The following other regulatory determinations have been made:

- a) Grain is defined to be any malt, special malt, rice and/or corn.
- b) Redundant emissions and/or throughput limitations for emission unit groups or emission units in Section III - "Emission Unit Specific Emissions Limitations" have been consolidated into one emission and/or one throughput limitation (the most stringent).
- c) The monitoring and recordkeeping sections of Section III - "Emission Unit Specific Emissions Limitations," clarify the method(s) for demonstrating compliance with hourly/daily/weekly/monthly/annual emissions and/or throughput limitations.
- d) Redundant regulatory requirements from the State of Missouri and Federal Government have been consolidated into one permit requirement, when practicable.

**Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis**

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons:

1. The specific pollutant regulated by that rule is not emitted by the installation;
2. The installation is not in the source category regulated by that rule;
3. The installation is not in the county or specific area that is regulated under the authority of that rule;
4. The installation does not contain the type of emission unit which is regulated by that rule;
5. The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the Air Pollution Control Program's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the Air Pollution Control Program a schedule for achieving compliance for that regulation(s).

Prepared by:

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Berhanu A. Getahun  
Environmental Engineer

CERTIFIED MAIL: 70082810000020166728  
RETURN RECEIPT REQUESTED

Mr. John J. Pitts  
Anheuser-Busch, Inc. St. Louis Brewery  
One Busch Place 3-2  
St. Louis, MO 63118-1852

Re: Anheuser-Busch, Inc. St. Louis Brewery, 510-0003  
Permit Number: **OP2010-109**

Dear Mr. Pitts:

Enclosed with this letter is your Part 70 operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations cited in this document is necessary for continued compliance. It is very important that you read and understand the requirements contained in your permit.

You may appeal this permit to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you have any questions or need additional information regarding this permit, please do not hesitate to contact Berhanu Getahun at the St. Louis Regional Office, 7545 S. Lindbergh, Suite 210, St. Louis, MO 63125, or by telephone at (314) 416-2960. You may also contact me at the Department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Michael J. Stansfield, P.E.  
Operating Permit Unit Chief

MJS:bgk

Enclosures

c: City of St. Louis Air Pollution Control Division  
PAMS File: 1997-05-013