

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**

Matt Blunt, Governor • Doyle Childers, Director

www.dnr.mo.gov

OCT 4 2007

CERTIFIED MAIL: 7004 1350 0003 1414 3060  
RETURN RECEIPT REQUESTED

Mr. Jeff Power, Complex Manager  
Tyson Foods - Sedalia Processing Plant  
19571 Whitfield Road  
Sedalia, MO 65301

RE: Tyson Foods - Sedalia Processing Plant, 159-0037  
Permit Number: OP2007-049

Dear Mr. Power:

Enclosed with this letter is your intermediate 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, 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 Administrative Hearing Commission within 30 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 Administrative Hearing Commission.

If you have any questions or need additional information regarding this permit, please contact the Missouri Department of Natural Resources' Air Pollution Control Program at (573) 751-4817, or you may write to the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

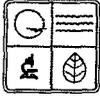


Michael J. Stansfield, P.E.  
Operating Permit Unit Chief

MJS:jwn

Enclosure

c: Ms. Tamara Freeman, US Environmental Protection Agency Region VII  
Kansas City Regional Office  
PAMS File: 2007-05-065



## INTERMEDIATE STATE 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 here in.

**Intermediate Operating Permit Number:** OP2007-049  
**Expiration Date:** OCT 3 2012  
**Installation ID:** 159-0037  
**Project Number:** 2007-05-065

**Installation Name and Address**

Tyson Foods - Sedalia Processing Plant  
19571 Whitfield Road  
Sedalia, MO 65301  
Pettis County

**Parent Company's Name and Address**

Tyson Foods, Inc.  
22851 Highway T  
Sedalia, MO 65301

**Installation Description:**

This is a poultry processing operation. Live chickens are received at the plant and processed into saleable parts and frozen before shipment. Tyson operates several natural gas combustion units including boilers, ovens, fryers and process water heaters.

OCT 4 2007

Effective Date

Director or Designee  
Department of Natural Resources

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## I. Installation Description and Equipment Listing

### INSTALLATION DESCRIPTION

This is a poultry processing operation. Live chickens are received at the plant and processed into saleable parts and frozen before shipment. Tyson operates several natural gas combustion units including boilers, ovens, fryers and process water heaters.

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	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)
2006	44.30	0.24	39.33	2.81	33.04	---	---
2005	38.62	0.20	32.67	2.40	27.44	---	---
2004	25.25	0.32	53.41	3.51	44.86	---	---
2003	10.82	0.25	48.22	2.65	40.5	---	---
2002	24.80	0.21	41.92	2.23	35.15	---	---

### EMISSION UNITS WITH LIMITATIONS

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

Emission Unit #	Description of Emission Unit	
EU0010	33.5 MMBtu/hr Natural Gas Fired Boiler	EP-01
EU0020	33.5 MMBtu/hr Natural Gas Fired Boiler	EP-02
EU0030	50.4 MMBtu/hr Natural gas-fired boiler (RVAF)	EP-52
EU0040	63.0 MMBtu/hr natural gas-fired boiler	EP-57
EU0050	50.4 MMBtu/hr natural gas-fired boiler	EP-52
EU0060	20.0 MMBtu/hr water heater	EP-03
EU0070	25.0 MMBtu/hr water heater	EP-47
EU0080	Thermal fluid heater, natural gas-fired, 8.0 MMBtu/hr	EP-32
EU0090	Thermal fluid heater, natural gas-fired, 8.0 MMBtu/hr	EP-33
EU0100	Thermal fluid heater, natural gas-fired, 8.0 MMBtu/hr	EP-49
EU0110	Thermal fluid heater, natural gas-fired, 8.0 MMBtu/hr	EP-50
EU0120	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-04
EU0130	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-05
EU0140	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-06
EU0150	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-07
EU0160	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-08
EU0170	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-09
EU0180	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-10
EU0190	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-11
EU0200	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-12
EU0210	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-13
EU0220	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-14
EU0230	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-15

<u>Emission Unit #</u>	<u>Description of Emission Unit</u>	
EU0240	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-16
EU0250	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-17
EU0260	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-18
EU0270	Oven, natural gas-fired, 2.125 MMBtu/hr	EP-19
EU0280	Fryer (Line 7)	EP-38
EU0290	Fryer (Line 6)	EP-39
EU0300	Fryer (Line 1)	EP-40
EU0310	Fryer (Line 4)	EP-42
EU0320	Fryer (Line 5)	EP-43
EU0330	Fryer (Line 2)	EP-51
EU0340	Hot air dryer, 7.3 MMBtu/hr	EP-53
EU0350	Receiving & Meat Meal Cooker (RVAF),	EP-54
EU0360	Cooker, hydrolyzer & room air (RVAF)	EP-55
EU0370	Meat meal cooker 3.42 tons finished meal per hour	EP-55
EU0380	749-hp emergency generator, diesel fuel-fired	EP-37
EU0390	Fryer (Line 3)	EP-59
EU0400	Cookstar Oven (Line 3)	EP-60

#### **EMISSION UNITS WITHOUT LIMITATIONS**

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

#### Description of Emission Source

Live hang (chicken) (EP-41)  
Pneumatic Bin Vent Filter (EP-56)  
235-hp emergency water pump, diesel fuel-fired

#### **DOCUMENTS INCORPORATED BY REFERENCE**

These documents have been incorporated by reference into this permit.

1. Construction Permit 1097-029, Issued October 9, 1997.
2. Construction Permit 1198-014, Issued November 23, 1998.
3. Construction Permit 1095-017A, Issued November 23, 1999.
4. Construction Permit 122005-010, Issued December 19, 2005.
5. Construction Permit 062006-010, Issued June 16, 2006.

## 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 10-6.060 Construction Permits Required  
Construction Permit 1097-029, Issued October 9, 1997

#### Emission Limitation:

The Permittee shall emit less than 100 tons of oxides of nitrogen from this installation in any 12-month period. [Special Condition No. 1]

#### Monitoring/Recordkeeping:

1. The Permittee shall maintain an accurate record of emissions of oxides of nitrogen (NO<sub>x</sub>) from this installation. These records shall include monthly and rolling 12-month totals.
2. Attachment A or an equivalent record keeping form shall be used to demonstrate compliance with the 100 ton/year NO<sub>x</sub> limit. [Special Condition No. 2]
3. Records shall be kept on the form provided in Attachment A, or a substantially conforming form that contains the same information. [Special Condition No. 2]
4. These records shall be maintained on-site and shall be made immediately available to Department of Natural Resources' personnel upon request. The records of NO<sub>x</sub> emissions shall be kept on-site for a period of no less than five years. [Special Condition No. 2]

#### Reporting:

The Permittee shall report to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than fifteen (15) days after the end of each month, if the 12-month cumulative plant-wide emissions of NO<sub>x</sub> show that the installation exceeded the Emission Limitation. [Special Condition No. 3]

### PERMIT CONDITION PW002

10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

#### Operational Limitation:

The permittee shall not combust at this installation more than 1,400 million cubic feet of natural gas per consecutive 12-month period.

#### Monitoring/Recordkeeping:

1. The permittee shall maintain records of natural gas usage for each month and each period of 12 consecutive months.
2. Records shall be kept on the form provided in Attachment B, or a substantially conforming form that contains the same information.

**Reporting:**

The permittee shall report to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than fifteen (15) days after the end of each month, if plant-wide usage of natural gas exceeds 1,400 million cubic feet for any period of 12 consecutive months.

**PERMIT CONDITION PW003**

10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)

**Operational Limitation:**

Tyson Foods, Incorporated shall operate and maintain all air pollution control devices according to the manufacturer's specifications.

**Monitoring/Record Keeping:**

Tyson Foods, Incorporated shall maintain an operating, maintenance and inspection log for all the air pollution control devices which shall include the following:

- a) Incidents of malfunctions(s) including the date(s) and duration of the event, the probable cause, any corrective actions taken and the impact on emissions due to the malfunction;
- b) Any maintenance activities conducted on the unit, such as replacement of equipment, etc.; and
- c) A written record of regular inspection schedule, the date and results of all inspections including any actions or maintenance activities that result from that inspection.

**Reporting:**

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 IV of this permit.

**PERMIT CONDITION PW004**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit 1198-014, Issued November 23, 1998

**Emission Limitation:**

1. The Permittee shall limit emissions from this installation to less than 100 tons per year of each criteria pollutant. [Special Condition No. 1]
2. If a continuing situation of demonstrated nuisance odors exists in violation of Missouri State Rule 10 CSR 10-3.090, the Director may require Tyson to submit a corrective action plan within ten (10) days adequate to timely and significantly mitigate the odors. Tyson shall implement any such plan immediately upon its approval by the Director. Failure to either submit or implement such a plan shall be a violation of the permit. [Special Condition No. 2]

**Monitoring/Recordkeeping:**

The facility's potential to emit criteria pollutants other than nitrogen oxides is less than 100 tons in any 12-month period. Therefore, this operating permit does not require any monitoring or reporting of emissions of CO, SO<sub>x</sub>, VOC, PM<sub>10</sub>, or lead other than the permittee's obligation to submit an annual compliance report and Emissions Inventory Questionnaire.

**Reporting:**

The Permittee shall report to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 15 days after the end of each month, if the 12-month cumulative plant-wide emissions of any criteria pollutant show that the installation exceeded the Emission Limitation.

### 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>EU0010 through EU0070 – INDIRECT HEATING SOURCES</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/Model #</b>	<b>2004 EIQ Reference #</b>
EU0010	Natural gas-fired Steam Generating Unit (33.5 MMBtu/hr; 1996).	Cleaver Brooks CB 700-800	EP-01
EU0020	Natural gas-fired Steam Generating Unit (33.5 MMBtu/hr; 1996).	Cleaver Brooks CB 700-800	EP-02
EU0030	Natural gas-fired Steam Generating Unit (50.4 MMBtu/hr; 1997).	Hurst Series 500	EP-52
EU0040	Natural gas-fired Steam Generating Unit (63.0 MMBtu/hr; 2006).	Johnston - 96	EP-57
EU0050	Natural gas-fired Steam Generating Unit (50.4 MMBtu/hr; 2006).	Hurst Series 500	EP-58
EU0060	Hot Water Heater, 20.0 MMBtu/hr	Kemco	EP-03
EU0070	Hot Water Heater, 25.0 MMBtu/hr	Kemco	EP-47

**PERMIT CONDITION (EU0010-EU0070)-001**  
 10 CSR 10-6.070 New Source Performance Regulations  
 40 CFR Part 60 Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

**Monitoring and Recordkeeping Requirements:**

1. The owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each day. [40 CFR 60.48c(g)]
2. The permittee shall maintain the fuel combustion records for a period of two (2) years following the date of each record. [40 CFR 60.48c(i)]

**PERMIT CONDITION (EU0010-EU0070)-002**  
 10 CSR 10-6.220 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 **new** source 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 60%.

**Monitoring:**

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in USEPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about

the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.

2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight 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 (2) weeks for a period of eight 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.

**Record Keeping:**

1. The permittee shall maintain records of all observation results (see Attachment C1 or C2), 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. (see Attachment D)
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment E)
4. Attachments C1 or C2, D and E contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
5. These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request.
6. All records shall be maintained for five years.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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 IV of this permit.

<b>EU0080 through EU0110 – INDIRECT HEATING SOURCES</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/Model #</b>	<b>2004 EIQ Reference #</b>
EU0080	Thermal fluid heater, 8.0 MMBtu/hr	Fulton FTO-800-C	EP-32
EU0090	Thermal fluid heater, 8.0 MMBtu/hr	Fulton FTO-800-C	EP-33
EU0100	Thermal fluid heater, 8.0 MMBtu/hr	Stein/Fulton ST-2500-F	EP-49
EU0110	Thermal fluid heater, 8.0 MMBtu/hr	Stein/Fulton ST-2500-F	EP-50

<p align="center"><b>PERMIT CONDITION (EU0080-EU0110)-001</b> 10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants</p>
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**Emission Limitation:**

1. No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any **new** source 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 60%.

**Monitoring:**

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in USEPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight 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 (2) weeks for a period of eight 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.

**Record Keeping:**

1. The permittee shall maintain records of all observation results (see Attachment C1 or C2), 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. (see Attachment D)
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment E)

4. Attachments C1 or C2, D and E contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
5. These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request.
6. All records shall be maintained for five years.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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 IV of this permit.

**PERMIT CONDITION (EU0080-EU0110)-002**

10 CSR 10-3.060, Maximum Allowable Emissions of Particulate Matter from Fuel Burning  
Equipment Used for Indirect Heating

**Emission Limitation:**

The permittee shall not emit particulate matter from these emission units in excess of 0.19 pounds per million Btu of heat input.

**Operational Limitation**

These emission units shall be limited to burning pipeline grade natural gas.

**Monitoring/Recordkeeping/Reporting:**

1. The permittee shall maintain documentation supporting that the fuel used in these emission units is pipeline grade natural gas.
2. The permittee will be in compliance with this regulation as long this emission unit burns pipeline grade natural gas exclusively. Calculations demonstrating this are in Attachment F. The permittee shall keep this attachment with the rest of this permit.
3. No additional monitoring, recordkeeping or reporting is required for this permit condition.

<b>EU0120 through EU0270 – OVENS</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/Model #</b>	<b>2004 EIQ Reference #</b>
EU0120	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-04
EU0130	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-05
EU0140	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-06
EU0150	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-07
EU0160	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-08
EU0170	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-09
EU0180	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-10
EU0190	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-11
EU0200	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-12
EU0210	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-13
EU0220	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-14
EU0230	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-15
EU0240	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-16
EU0250	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-17
EU0260	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-18
EU0270	Oven, natural gas-fired, 2.125 MMBtu/hr	Stein JSO III 4022	EP-19

**PERMIT CONDITION (EU0120-EU0270)-001**  
 10 CSR 10-6.220 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 **new** source 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 minutes in any 60 minutes air contaminants with an opacity up to 60%.

**Monitoring:**

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in USEPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight 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 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 C1 or C2), 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. (see Attachment D)
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment E)
4. Attachments C1 or C2, D and E contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
5. These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request.
6. All records shall be maintained for five years.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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 IV of this permit.

<b>EU0280 through EU0330 – FRYERS</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/Model #</b>	<b>2004 EIQ Reference #</b>
EU0280	Fryer (Line 7)	Stein Thermofin 4028	EP-38
EU0290	Fryer (Line 6)	Stein Thermofin 4028	EP-39
EU0300	Fryer (Line 1)	Stein Thermofin 4028	EP-40
EU0310	Fryer (Line 4)	Stein Thermofin 4028	EP-42
EU0320	Fryer (Line 5)	Stein Thermofin 4028	EP-43
EU0330	Fryer (Line 2)	Stein Thermofin 4036	EP-51

**PERMIT CONDITION (EU0280-EU0330)-001**  
10 CSR 10-6.220 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 **new** source 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 60%.

**Monitoring:**

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in USEPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight 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 (2) weeks for a period of eight 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 C1 or C2), 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. (see Attachment D)

3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment E)
4. Attachments C1 or C2, D and E contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
5. These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request.
6. All records shall be maintained for five years.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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 IV of this permit.

**PERMIT CONDITION (EU0280-EU0330)-002**

10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes

**Emission Limitation:**

1. Particulate matter shall not be emitted from the fryers in excess of 8.56 lb/hr.  
This emission rate was calculated using the following equation:
  - a) For process weight rates of 60,000 lb/hr or less:  
$$E = 4.10(P)^{0.67}$$

Where:  
E = rate of emission in lb/hr  
P = process weight rate in tons/hr (3.0 tons/hour for the fryers)
2. The concentration of particulate matter in the exhaust gases shall not exceed 0.30 gr/scf.

**Monitoring/Recordkeeping:**

1. The permittee shall retain the potential to emit calculations in Attachment G which demonstrate that the above emission limitations will not be exceeded.
2. The calculation shall be made available immediately for Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five years.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program 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 (EU0280-EU0300)-003**  
10 CSR 10-6.060 Construction Permits Required  
Construction Permit 1095-017A, Issued November 23, 1999

**Emission Limitation:**

The permittee shall emit less than 21 tons of particulate matter with an aerodynamic diameter less than 10 microns (PM<sub>10</sub>) in any consecutive 12-month period. [Special Condition No. 1]

**Monitoring/Recordkeeping:**

1. The permittee shall record the monthly and the sum of the most recent consecutive 12-months PM<sub>10</sub> emissions in tons from the fryers. Attachment H – Monthly PM<sub>10</sub> Tracking Record, or an equivalent form developed by the permittee, shall be used for this purpose. [Special Condition No. 2]
2. These records shall be maintained on-site for five years. [Special Condition No. 2]
3. These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request. [Special Condition No. 2]

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than fifteen (15) days after the permittee determines, using the calculations on the Attachment, that the emission unit(s) exceeded the emission limit. [Special Condition No. 3]

<b>EU0340 – HOT AIR DRYER</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/Model #</b>	<b>2004 EIQ Reference #</b>
EU0340	Hot Air Blood Dryer	N/A	EP-53

**PERMIT CONDITION EU0340-001**  
10 CSR 10-6.220 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 **new** source 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 60%.

**Monitoring:**

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in USEPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight 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 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 C1 or C2), 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. (see Attachment D)
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment E)
4. Attachments C1 or C2, D and E contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.

5. These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request.
6. All records shall be maintained for five years.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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 IV of this permit.

**EU0350 through EU0370 – MEAT MEAL COOKERS**

Emission Unit	Description	Manufacturer/Model #	2004 EIQ Reference #
EU0350	Receiving and Meat Meal Cooker		EP-54
EU0360	Cooker, Hydrolyzer and Room Air		EP-55
EU0370	Meat Meal Cooker		EP-55

**PERMIT CONDITION (EU0350-EU0370)-001**

10 CSR 10-6.220 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 **new** source 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 60%.

**Monitoring:**

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in USEPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight 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 (2) weeks for a period of eight 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 C1 or C2), 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. (see Attachment D)
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment E)

4. Attachments C1 or C2, D and E contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
5. These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request.
6. All records shall be maintained for five years.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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 IV of this permit.

<b>PERMIT CONDITION (EU0350-EU0370)-002</b> 10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes
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**Emission Limitation:**

1. The permittee shall not shall cause, allow or permit the emission into the outdoor atmosphere of particulate matter in any one hour from any of these emission units in excess of the amount, in pounds per hour, listed for each unit in the table below. Using the oven process weight rate listed in the table, the respective PM emission limit can be computed using the equation
  - a) For process weight rates of 60,000 lb/hr or less:  
 $E = 4.10(P)^{0.67}$   
Where:  
E = rate of emission in lb/hr  
P = process weight rate in tons/hr

Emission Unit	Manufacturer	Process weight rate (P), tons/hr	PM emission limit (E), lb/hr
EU0600	Receiving and Meat Meal Cooker	8.0	16.51
EU0610	Cooker, Hydrolyzer and Room Air	2.5	7.58
EU0620	Meat Meal Cooker	3.42	9.35

2. The concentration of particulate matter in the exhaust gases shall not exceed 0.30 gr/scf.

**Monitoring/Recordkeeping:**

1. The permittee shall retain the potential to emit calculations in Attachment I which demonstrate that the above emission limitations will not be exceeded.
2. The calculation shall be made available immediately for Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five years.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program 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 (EU035 and EU0037)-003**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit 122005-010, Issued December 19, 2005

**Operational Limitation:**

Tyson Foods, Incorporated shall not operate more than one of the meat meal cookers at any time. [Special Condition No. 1]

Tyson Foods, Incorporated shall operate the venturi scrubber (CD-04) and the packed bed scrubber (CD-05) associated with the rendering process to control process emissions. The scrubbers shall be operated and maintained in accordance with the manufacturer's specifications. [Special Condition No. 2A]

**Monitoring/Recordkeeping:**

The permittee shall follow the monitoring and recordkeeping requirements of plant wide condition PW003. [Special Condition 3B]

**Reporting:**

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 IV of this permit.

**PERMIT CONDITION EU0360-003**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit #062006-010, Issued June 16, 2006

**Operational Limitation:**

Emissions from the rendering plant grinding room shall be vented to the following pollution control train, in sequence: cyclone (CD-06), venturi scrubber (CD-04), and packed bed scrubber (CD-05). [Special Condition No. 1A]

**Monitoring/Recordkeeping:**

The permittee shall follow the monitoring and record keeping requirements of plant wide condition PW003. [Special Condition 1B]

**Reporting:**

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

<b>EU0380 – EMERGENCY GENERATOR</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/Model #</b>	<b>2004 EIQ Reference #</b>
EU0380	749-hp emergency generator, diesel fuel-fired	Caterpillar / SR-4	None

<p align="center"><b>PERMIT CONDITION EU0380-001</b> 10 CSR 10-6.061 Construction Permit Exemptions</p>
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**Emission Limit/Operational Limitation:**

The permittee may operate the emergency generator for a period of time not to exceed five hundred (500) hours per generator in any consecutive 12-month period. The emergency generator shall be operated only during emergency situations, such as when power from the utility is interrupted, and for short periods of time to perform maintenance and operational readiness testing.

**Monitoring/Recordkeeping:**

1. The emergency generator shall be equipped with a non-resettable meter that displays elapsed time of operation.
2. The permittee shall maintain a log that contains a record of the number of hours the emergency generator is operated. The record shall include the date the generator engine is operated, the beginning and ending hours on the non-resettable meter, and the total number of hours the engine operated during each run.
3. The permittee shall maintain documentation supporting that the fuel used in this emission unit for any given time period is a distillate fuel that contains not more than 0.5 weight percent sulfur.
4. The permittee shall immediately make such records available to Department of Natural Resources personnel upon request.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102.

<b>EU0390 - Fryer</b>			
<b>Emission Unit</b>	<b>Description</b>	<b>Manufacturer/Model #</b>	<b>2006 EIQ Reference #</b>
EU0390	Fryer (Line 3); MHDR = 5 tons/hr	N/A	EP-59

**PERMIT CONDITION EU0390-001**  
10 CSR 10-6.220 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 **new** source 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 60%.

**Monitoring:**

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in USEPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight 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 (2) weeks for a period of eight 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 C1 or C2), 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. (see Attachment D)
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment E)
4. Attachments C1 or C2, D and E contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.

5. These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request.
6. All records shall be maintained for five years.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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 IV of this permit.

**PERMIT CONDITION EU0390-002**

10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes

**Emission Limitation:**

1. Particulate matter shall not be emitted from the fryer in excess of 12.05 lb/hr.  
This emission rate was calculated using the following equation:
  - a) For process weight rates of 60,000 lb/hr or less:  
$$E = 4.10(P)^{0.67}$$
  
Where:  
E = rate of emission in lb/hr  
P = process weight rate in tons/hr (3.0 tons/hour for the fryers)
2. The concentration of particulate matter in the exhaust gases shall not exceed 0.30 gr/scf.

**Monitoring/Recordkeeping:**

1. The permittee shall retain the potential to emit calculations in Attachment G which demonstrate that the above emission limitations will not be exceeded.
2. The calculation shall be made available immediately for Department of Natural Resources' personnel upon request.
3. All records shall be kept for a period of five years.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program 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 EU0390-003**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit # 062006-010, Issued June 16, 2006

**Operational Limitation:**

Emissions from the Stein Fryer shall be vented to a venturi scrubber (CD-59). [Special Condition 1A] CD-59 shall be in operation at all times that the fryer is in use and shall be operated and maintained in accordance with the manufacturer's specifications. [Special Condition No. 1A]

**Monitoring/Recordkeeping:**

The permittee shall follow the monitoring and record keeping requirements of plant wide condition PW003. [Special Condition 1B]

**Reporting:**

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

EU0400 -Oven			
Emission Unit	Description	Manufacturer/Model #	2006 EIQ Reference #
EU0400	Cookstar Oven (Line 3); Natural Gas Fired 5.9 MMBtu/hr	CFS 1000-6	EP-60

**PERMIT CONDITION EU0400-001**  
10 CSR 10-6.220 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 **new** source 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 minutes in any 60 minutes air contaminants with an opacity up to 60%.

**Monitoring:**

1. The permittee shall conduct opacity readings on this emission unit using the procedures contained in USEPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight 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 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 C1 or C2), 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. (see Attachment D)
3. The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment E)

4. Attachments C1 or C2, D and E contain logs including these record keeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.
5. These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request.
6. All records shall be maintained for five years.

**Reporting:**

1. The permittee shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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 IV of this permit.

## IV. Core Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR), Code of State Regulations (CSR), and local ordinances 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 10-6.050 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(5)(B)1.A(III)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065, §(5)(C)(1) and §(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, §(5)(C)(1) and §(6)(C)3.B]

### **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) in accordance with the requirements outlined in this rule.
2. 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.
3. The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the director.

### **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.

#### **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 10-3.030 Open Burning Restrictions**

1. The permittee shall not conduct, cause, permit or allow a salvage operation, the disposal of trade wastes or burning of refuse by open burning.
2. Exception - Open burning of trade waste or vegetation may be permitted only when it can be shown that open burning is the only feasible method of disposal or an emergency exists which requires open burning.
3. Any person intending to engage in open burning shall file a request to do so with the director. The request shall include the following:
  - a) The name, address and telephone number of the person submitting the application; The type of business or activity involved; A description of the proposed equipment and operating practices, the type, quantity and composition of trade wastes and expected composition and amount of air contaminants to be released to the atmosphere where known;
  - b) The schedule of burning operations;
  - c) The exact location where open burning will be used to dispose of the trade wastes;
  - d) Reasons why no method other than open burning is feasible; and
  - e) Evidence that the proposed open burning has been approved by the fire control authority which has jurisdiction.
4. Upon approval of the open burning permit application by the director, the person may proceed with the operation under the terms of the open burning permit. Be aware that such approval shall not exempt Tyson Foods - Sedalia Processing Plant from the provisions of any other law, ordinance or regulation.
5. The permittee shall maintain files with letters from the director approving the open burning operation and previous Department of Natural Resources inspection reports.

**10 CSR 10-3.090 Restriction of Emission of Odors**

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour. **This requirement is not federally enforceable.**

**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.

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, §(5)(C)1 and §(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, §(5)(C)1 and §(6)(C)1.C General Record Keeping and Reporting Requirements

1. Recordkeeping
  - 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, Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
  - b) The permittee shall submit a report of all required monitoring by:
    - i) April 1st for monitoring which covers the January through December time period.
    - ii) Exception. Monitoring requirements which require reporting more frequently than 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.
  - 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 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 annual 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 §(5)(C)1 and §(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(5)(C)1.A 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 under this rule.
6. Failure to comply with the limitations and conditions that qualify the installation for an Intermediate permit make the installation subject to the provisions of 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit.

**10 CSR 10-6.065(5)(C)1.C Reasonably Anticipated Operating Scenarios**

None.

**10 CSR 10-6.065, §(5)(B)4; §(5)(C)1, §(6)(C)3.B; and §(6)(C)3.D; and §(5)(C)3 and §(6)(C)3.E.(I) – (III) and (V) – (VI) 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 the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and exceedances 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, §(5)(C)1 and §(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(5)(C)5 Off-Permit Changes**

1. Except as noted below, the permittee may make any change in its permitted installation's operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. 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 a Title I modification; Please Note: Changes at the installation which affect the emission limitation(s) classifying the installation as an intermediate source (add additional equipment to the record keeping requirements, increase the emissions above major source level) do not qualify for off-permit changes.
  - b) The permittee must provide written notice of the change to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, no later than the next annual emissions report. 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; and
  - 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.

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

The application utilized in the preparation of this permit was signed by Jeff Power, Complex Manager. 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 §(5)(E)4 and §(6)(E)6.A(III)(a)-(c) Reopening-Permit for Cause**

This permit may be reopened for cause if:

1. The Missouri Department of Natural Resources or Environmental Protection Agency (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,
2. 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,
3. 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 §(5)(E)1.A and §(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 E**

Method 9 Opacity Emission Observations	
Company	Observer
Location	Observer Certification Date
Date	Emission Unit
Time	Control Device

Hour	Min.	Seconds				Steam Plume (check if applicable)		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.

Was the emission unit in compliance at the time of evaluation? \_\_\_\_\_  
 YES NO Signature of Observer \_\_\_\_\_

**ATTACHMENT F**  
**Calculations Demonstrating Compliance with 10 CSR 10-3.060**

All combustion units at the plant use natural gas as fuel. The AP-42 emission factor for PM<sub>10</sub> emissions from natural gas combustion is 7.6 lb per million cubic feet. (AP-42 Table 1.4-2)

**PM<sub>10</sub> Emission Rate**

To demonstrate that natural gas combustion emissions comply with the plant-wide PM<sub>10</sub> emission limit established by 10 CSR 10-3.060, convert the emission factor to *pounds per million Btu* of heat input, which is the unit measurement of the emission standard:

$$7.6 \text{ lb PM}_{10}/\text{million ft}^3 \times \text{ft}^3/1050 \text{ Btu} = \underline{0.0072 \text{ pounds per million Btu}}$$

**PM<sub>10</sub> Emission Limit for Indirect Heating Units**

The PM<sub>10</sub> emission limit for indirect heating units at the plant is based on a total indirect heating unit capacity of 307.8 MMBtu/hr.

Emission Unit	Emission Point	Heat Input, MMBtu/hr
Boiler	EP-01	33.5
Boiler	EP-02	33.5
Boiler	EP-52	50.4
Boiler	EP-57	63.0
Boiler	EP-52	50.4
Thermal Fluid Heater	EP-32	8.0
Thermal Fluid Heater	EP-33	8.0
Thermal Fluid Heater	EP-49	8.0
Thermal Fluid Heater	EP-50	8.0
Water Heater	EP-03	20.0
Water Heater	EP-47	25.0
Total =		307.8

Emission limit:  $E = 1.31(Q)^{-0.338}$  lb PM per million Btu of heat input

$$E = 1.31(307.8)^{-0.338} = 1.31(0.144) = \underline{0.19} \text{ lb PM per million Btu of heat input}$$

**Conclusion:** the natural gas combustion units at this installation will comply continuously with the emission limit 0.19 lb PM/MMBtu because the calculated emission rate of 0.0072 lb/MMBtu is well below the limit.

**ATTACHMENT G**  
**Calculations Demonstrating Compliance with 10 CSR 10-6.400**

The particulate matter emission limit in 10 CSR 10-6.400 is computed as "E" by the equation  $E = 4.10P^{0.67}$ , where E is the emission limit in lb/hr and P is the process weight rate in tons per hour.

**Fryers EU0280 through EU0330**

The six fryers designated as EU0280 through EU0330 each fry product at a rate of 3.0 tons per hour. The applicable PM emission limit for each fryer is calculated as:

$$E = 4.10(3.0)^{0.67} = 4.10(2.088) = 8.56 \text{ lb/hr}$$

PM emissions may be estimated using a PM emission factor of 0.42 lb/ton from a stack test that MDNR previously accepted for estimating emissions from the fryers at this installation. The estimated emission rate for each fryer is computed as:

$$0.42 \text{ lb PM/ton} \times 3.0 \text{ ton/hr} = 1.26 \text{ lb/hr PM emissions}$$

The estimated PM emission rate 1.26 lb/hr is less than the emission limit of 8.56 lb/hr; therefore, the fryers are deemed to be in compliance with this regulation.

**Fryers EU0390**

The fryer designated as EU0390 fries product at a rate of 5.0 tons per hour. The applicable PM emission limit for each fryer is calculated as:

$$E = 4.10(5.0)^{0.67} = 4.10(2.94) = 12.05 \text{ lb/hr}$$

PM emissions may be estimated using a PM emission factor of 0.42 lb/ton from a stack test that MDNR previously accepted for estimating emissions from the fryers at this installation. The estimated emission rate for each fryer is computed as:

$$0.42 \text{ lb PM/ton} \times 5.0 \text{ ton/hr} = 2.10 \text{ lb/hr PM emissions}$$

The estimated PM emission rate 2.10 lb/hr is less than the emission limit of 12.05 lb/hr; therefore, the fryer is deemed to be in compliance with this regulation.



**ATTACHMENT I**  
**Calculations Demonstrating Compliance with 10 CSR 10-6.400**

10 CSR 10-6.400 particulate matter emission limit is computed as “E” by the equation  $E = 4.10P^{0.67}$ , where E is the emission limit in lb/hr and P is the process weight rate in tons per hour.

**Meat Meal Cookers**

Meat meal PM emissions are computed using a controlled PM emission factor of 1.22 pounds of PM emitted per ton of product processed (from Tyson’s 2006 EIQ). PM emissions from each cooker can be estimated using this emission factor as follows:

- EU0350:  $8.0 \text{ tons/hr} \times 1.22 \text{ lb/ton} = 9.76 \text{ lb/hr}$
- EU0360:  $2.5 \text{ tons/hr} \times 1.22 \text{ lb/ton} = 3.05 \text{ lb/hr}$
- EU0370:  $3.42 \text{ tons/hr} \times 1.22 \text{ lb/ton} = 4.17 \text{ lb/hr}$

When these PM emission rates are compared to the calculated emission limits in the table below, each estimated emission rate is less than the hourly emission limit. Therefore, these emission units are deemed to be in compliance with the applicable emission limit under 10 CSR 10-6.400.

Emission Unit	Manufacturer	Process weight rate (P), tons/hr	PM emission limit (E), lb/hr	Estimated PM emissions, lb/hr
EU0350	Receiving and Meat Meal Cooker	8.0	16.51	9.76
EU0360	Cooker, Hydrolyzer and Room Air	2.5	7.58	3.05
EU0370	Meat Meal Cooker	3.42	9.35	4.17

## STATEMENT OF BASIS

### **Voluntary Limitations**

In order to qualify for this Intermediate State Operating Permit, the permittee has accepted voluntary, federally enforceable emission limitations. Per 10 CSR 10-6.065(5)(C)1.A.(VI), if these limitations are exceeded, the installation immediately becomes subject to 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit. It is the permittee's responsibility to monitor emission levels and apply for a part 70 operating permit far enough in advance to avoid this situation. This may mean applying more than eighteen months in advance of the exceedance, since it can take that long or longer to obtain a part 70 operating permit.

### **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. Intermediate Operating Permit Renewal Application, received May 10, 2007;
2. 2006 Emissions Inventory Questionnaire, received April 11, 2007; and
3. U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.

### **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.

None.

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

The department's Air Pollution Control Program has determined that the following requirements are not applicable to this installation at this time for the reasons stated.

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

This rule is not applicable because the installation is in an ozone attainment area.

#### *10 CSR 10-3.060, Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating*

This rule does not apply to the natural gas-fired boilers or water heaters (EU0010 through EU0070) because they are subject to the provisions of 10 CSR 10-6.070. 10 CSR 10-3.060 does not apply to sources subject to 10 CSR 10-6.070, as stated in paragraph 10 CSR 10-3.060(3)(E).

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

This rule does not apply to any emission units at the installation because natural gas is the only fuel used in combustion equipment. Combustion equipment that uses exclusively pipeline grade natural gas is exempt from this rule by paragraph 10 CSR 10-6.260(1)(A)2.

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

This rule does not apply to the boilers, thermal fluid heaters or hot water heaters because paragraph 10 CSR 10-6.400(1)(B)6. exempts sources that burn fuel for indirect heating. This rule also does not apply to emission units that have the potential to emit PM at a rate less than 0.5 pounds per hour. The following emission points at the installation are exempt from this rule because their potential to emit PM, as shown by the calculations below, is less than 0.5 pounds per hour:

- a) Pneumatic Bin Vent Filter (EP-50).

$$2.5 \text{ tons/hr grain received} \times 0.012 \text{ lb PM/ton} = 0.3 \text{ lb/hr PM emissions}$$

- b) Live Hang (EP-41). Exhaust air from this operation passes through a baghouse that controls PM emissions at 99.4 percent efficiency. This is an insignificant emission source.

$$60.0 \text{ tons/hr} \times 0.2 \text{ lb PM/ton} \times (1 - 0.994) = 0.076 \text{ lb/hr PM emissions}$$

- c) Ovens (EU0200 through EU0350). Actual PM emissions for each oven may be estimated using the PM<sub>10</sub> emission factor for natural gas combustion of 7.6 lb PM<sub>10</sub> per million cubic feet in AP-42 Table 1.4-2. Convert the natural gas combustion PM<sub>10</sub> emission factor to pounds per hour:

$$7.6 \text{ lb PM}_{10}/\text{MM ft}^3 \times 2.13 \text{ MMBtu/hr} \times \text{ft}^3/1050 \text{ Btu} = 0.015 \text{ lb/hr PM emissions}$$

- d) The dryer designated as EU0500 is a direct-heated natural gas combustion unit that processes blood at a rate of 8.0 tons per hour. The EIQ cites AP-42 natural gas combustion emission factors for estimating emissions from this unit. Thus, actual PM emissions may be estimated using the PM<sub>10</sub> emission factor for natural gas combustion of 7.6 lb PM<sub>10</sub> per million cubic feet in AP-42 Table 1.4-2:

$$7.6 \text{ lb PM}_{10}/\text{MM ft}^3 \times 7.3 \text{ MMBtu/hr} \times \text{ft}^3/1050 \text{ Btu} = 0.053 \text{ lb/hr PM emissions}$$

**Construction Permit Revisions**

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

Construction permit #1095-017, Special Condition #1, states that “emissions of PM<sub>10</sub> from any of the fryers shall not exceed a combined total of 115.20 pounds during a 24-hour period.” This condition was superceded by Special Condition #1 in Construction Permit Amendment #1095-017A, which limits PM<sub>10</sub> emissions from fryers EP-37 through EP-40 to 21 tons in any consecutive 12-month period.

Construction permit #1095-017, cites 10 CSR 10-3.050 (now 10 CSR 10-6.400) as applicable to the ovens. This operating permit does not include a PM emission limit under 10 CSR 10-6.400 for the ovens because each oven’s potential to emit PM is less than 0.5 lb/hr. Therefore, they are exempt from this regulation.

Construction permit #1097-029, Special Condition #2, requires that the Permittee keep records of monthly and annual NO<sub>x</sub> emissions from the installation on attached Form A or a similar form. The Form A attached to the construction permit requires the permittee to compute NO<sub>x</sub> emissions from natural gas combustion using an emission factor of 140 lb NO<sub>x</sub> per million cubic feet of natural gas combusted. However, the U.S. Environmental Protection Agency’s AP-42, Table 1.4-1 contains NO<sub>x</sub>

emission factors for natural gas combustion and lists the  $140 \text{ lb}/10^6 \text{ ft}^3$  emission factor as applicable to large combustion units; that is, units with a maximum hourly heat input rating greater than 100 MMBtu/hr. All the combustion units at the Tyson facility have a maximum heat input rating less than 100 MMBtu/hr. For natural gas combustion units rated less than 100 MMBtu, AP-42 Table 1.4-1 lists an  $\text{NO}_x$  emission factor  $100 \text{ lb}/10^6 \text{ ft}^3$ . Therefore, for the purpose of demonstrating compliance with the plant-wide  $\text{NO}_x$  emission limit of 100 tons per year, this operating permit requires Tyson to compute  $\text{NO}_x$  emissions using a rate of  $100 \text{ lb}/10^6 \text{ ft}^3$  rather than  $140 \text{ lb}/10^6 \text{ ft}^3$  as cited in the construction permit.

Construction Permit #052001-027, authorized the installation of a Stein Thermofin fryer that was never installed, therefore Special Condition No. 2 of this permit was not included in the operating permit.

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

Five boilers and two water heaters at the installation are subject to 40 CFR 60, Subpart Dc, the NSPS for small steam-generating units. All of these units are fired with natural gas and the permittee does not have a back-up fuel such as fuel oil. No other NSPS apply to emission units at this installation.

#### **Maximum Available Control Technology (MACT) Applicability**

None.

#### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

In the permit application and according to Air Pollution Control Program records, there was no indication that any Missouri Air Conservation Law, Asbestos Abatement, 643.225 through 643.250; 10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos; and 10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements apply to this installation. The installation is subject to these regulations if they undertake any projects that deal with or involve any asbestos containing materials. None of the installation's operating projects underway at the time of this review deal with or involve asbestos containing material. Therefore, the above regulations were not cited in the operating permit. If the installation should undertake any construction or demolition projects in the future that deal with or involve any asbestos containing materials, the installation must follow all of the applicable requirements of the above rules related to that specific project.

#### **Other Regulatory Determinations**

None.

#### **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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