

Air Quality

PERMIT TO CONSTRUCT

Permittee Great Western Malting Co.
Permit Number P-2015.0058
Project ID 61634
Facility ID 005-00035
Facility Location 1666 Kraft Road
Pocatello, ID 83204 -2425

Permit Authority

This permit (a) is issued according to the “Rules for the Control of Air Pollution in Idaho” (Rules), IDAPA 58.01.01.200–228; (b) pertains only to emissions of air contaminants regulated by the State of Idaho and to the sources specifically allowed to be constructed or modified by this permit; (c) has been granted on the basis of design information presented with the application; (d) does not affect the title of the premises upon which the equipment is to be located; (e) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (f) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; and (g) in no manner implies or suggests that the Idaho Department of Environmental Quality (DEQ) or its officers, agents, or employees assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment. Changes in design, equipment, or operations may be considered a modification subject to DEQ review in accordance with IDAPA 58.01.01.200–228.

Date Issued Proposed for Public Comment

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1 Permit Scope

Purpose

- 1.1 This is a revised permit to construct (PTC) for a plant expansion project. [PROPOSED]
- 1.2 Those permit conditions that have been modified or revised by this permitting action are identified by the permit issue date citation located directly under the permit condition and on the right-hand margin. [PROPOSED]
- 1.3 This PTC replaces Permit to Construct No. P-060312, issued on October 4, 2006. [PROPOSED]

Regulated Sources

Table 1.1 lists all sources of regulated emissions in this permit.

Table 1.1 Regulated Sources

Permit Section	Source	Control Equipment	Emission Point
BARLEY UNLOADING, BARLEY AND MALT HANDLING AND LOADOUT			
2	Truck Barley Unload – Stack Barley Headhouse Transfers – 80% to BH1 Feed Barley Transfer to Bins Pellet Mill Transfers Pellet Mill Cleaning Malt Transfers – 20 % to BH1	<u>Baghouse 1 (BH1)</u> Manufacturer: Carter-Day Model: 232RF10 Pressure Drop: 2.5 inch of water Air/Cloth Ratio: 10.1	Stack BH1
2	Barely Headhouse Transfers – 20% to BH2 Barley Transfers Before Cleaning Barley Cleaning Barley Transfers After Cleaning Malt Cleaning – 67% to BH2	<u>Baghouse 2 (BH2)</u> Manufacturer: Carter-Day Model: 376RF10 Pressure Drop: 2.5 inch of water Air/Cloth Ratio: 9.4	Stack BH2
2	Feed Barley Loading for Shipment – Stack (95% captured in stack) Malt Transfers – 80% to BH3 Malt Clearing – 33% to BH3	<u>Baghouse 3 (BH3)</u> Manufacturer: Carter-Day Model: 376RF10 Pressure Drop: 2.5 inch of water Air/Cloth Ratio: 9.4	Stack BH3
PELLET MILL OPERATIONS			
2	<u>Pellet Mill Cooler</u> Manufacture/Model: Unknown Installed: 1987	Cyclone Dust Separator	Pellet mill cooler cyclone stack (Stack CS)
2	<u>Pellet Mill Boiler</u> Manufacturer: Cleaver-Brooks Model: CB 200-700 Installed: 1987 Rated Heater Capacity: 2.51 MMBtu/hr Burner Type: horizontally fired Fuel: natural gas	None	Boiler Stack No.2 (Stack BS2)

Permit Section	Source	Control Equipment	Emission Point
MALTHOUSE BOILERS			
2	<u>Malthouse Boiler 1</u> Manufacturer: Cleaver-Brooks Model: CB 200-700 Installed: 1980 Rated Heat Capacity: 25.1 MMBtu/hr Burner Type: horizontally fired Max. Hourly Combustion Rate: 0.025 MMscf/hr Normal Annual Combustion Rate: 21.036 MMscf/yr Fuels: natural gas Permit Limit: 0.00625 MMscf/hr, and only one Malthouse boiler shall operate at a time	None	BS1
2	<u>Malthouse Boiler 2</u> Manufacturer: Cleaver-Brooks Model: CB 200-700 Installed: 1980 Rated Heat Capacity: 25.1 MMBtu/hr Burner Type: horizontally fired Max. Hourly Combustion Rate: 0.025 MMscf/hr Normal Annual Combustion Rate: 21.036 MMscf/yr Fuel: natural gas Permit limit: 0.00625 MMscf/hr, and only one Malthouse boiler shall operate at a time	None	
MALT DRYING KILN			
2	Germination Beds - 6 beds Manufacturer: Saladin Malting Equipment Model: custom Maximum Capacity: 130,000 metric ton (MT)/yr Date of Construction: 1980 Operation: 24 hr/day, 8760 hr/yr	None	Germination Bed Exhaust w/ Three Exhaust Points (GBE 1&4, GBE 2&5, GBE 3&6)
2	Malthouse A (Kiln 1) Manufacturer: Saladin Malting Equipment Model: custom Maximum Capacity: 130,000 MT/yr Date of Construction: 1980 Operation: 24 hr/day, 8760 hr/yr 16.74 MT/hr daily rolling average, 130,000 MT/yr	None	KSE01 KSE02 KSE03 KSE04 KSE05
MALT EXPANSION PROJECT			
2	10 Air-To-Air Heaters (one burner per heater, replacing air heaters in existing Malthouse A, low NOx burners, K1-10) Manufacturer: Maxon Burners (Air Froehlich Air Heaters) Model: KINEDIZER LE- 6" Maximum Capacity: 7.9 MMBtu/hr heat input each Fuel Type: natural gas Date of Construction: 2017, modification to existing sources Operation: 24 hr/day, 8760 hr/yr 290 MMscf natural gas/yr total for all 10 burners to limit PTE	None	Stack KS1 for K1 Stack KS2 for K2-5 Stack KS3 for K6 Stack KS4 for K7-K9 Stack KS5 for K10

Permit Section	Source	Control Equipment	Emission Point
2	Steep Tanks Conveyor 1 (fill, STC1) Manufacturer: CUSTOM Model: N/A Maximum Capacity: 160 MT/hr Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	Steep Tank Conveyor 1 Filter (STC1F) Date of Installation: 2016 Manufacturer: Donaldson Torit Model Number: CPV1 PM/PM ₁₀ Control Efficiency: 99.5%	STC1F (S1)
2	Steep Tanks Conveyor 2 (fill, STC2) Manufacturer: CUSTOM Model: N/A Maximum Capacity: 160 MT/hr Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	Steep Tank Conveyor 1 Filter (STC2F) Date of Installation: 2016 Manufacturer: Donaldson Torit Model Number: CPV1 PM/PM ₁₀ Control Efficiency: 99.5%	STC2F (S2)
2	Steep Tanks- 8 Tanks- Upper Level (STA1- STA8) Manufacturer: CUSTOM Model: N/A Maximum Capacity: 50 MT, each Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	None	STA1- STA8 (S3-S10)
2	Steep Tanks- 8 Tanks- Lower Level (STB1- STB8) Manufacturer: CUSTOM Model: N/A Maximum Capacity: 50 MT, each Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	None	STB1- STB8 (S11-S18)
2	Germination Vessels- 4 Vessels (GV1- GV4) Manufacturer: CUSTOM Model: N/A Maximum Capacity: 400 MT, each Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	None	GV1- GV4 (S19 & 20 for GV1 S21 & 22 for GV2 S23 & 24 for GV3 S25 & S26 for GV4)
2	Four Kiln Burners for Malthouse B (Kiln 2) (one burner per air-to-air heater, KB1- KB4, low NOx burner) Manufacturer: Maxon Burners (Air Froehlich Air Heaters) Model: Kinedizer LE- 10" Maximum Capacity: 18.15 MMBtu/hr heat input, each Fuel Type: natural gas Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr 420 MMscf natural gas /yr total for all 4 burners to limit PTE	None	KB1- KB4 (S27, S28, S29, S30)
2	Malthouse B (Kiln 2) Manufacturer: CUSTOM Model: N/A Maximum Capacity: 400 MT Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr 21.1 MT/hr daily rolling average; 162,000 MT/yr	None	K2 (S31)

Permit Section	Source	Control Equipment	Emission Point
2	New Malt Leg Conveyor Manufacturer: CUSTOM Model: N/A Maximum Capacity: 219 MT Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	New Malt Leg Filter Date of Installation: 2016 Manufacturer: Donaldson Torit Model Number: CPV3 PM/PM ₁₀ Control Efficiency: 99.5% or PM ₁₀ Emissions Concentration: 0.002 gr/dscf	NMLF (S32)
2	Analysis Bin 1 Fill (BA1) Manufacturer: CUSTOM Model: N/A Maximum Capacity: 375 MT (??) Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	Analysis Bin 1 Filter (BA1F) Date of Installation: 2016 Manufacturer: Donaldson Torit Model number: CPV1 PM/PM ₁₀ control efficiency: 99.5% or PM ₁₀ Emissions Concentration: 0.002 gr/dscf	BA1F (S33)
2	Analysis Bin 2 Fill Manufacturer: CUSTOM Model: N/A Maximum Capacity: 375 MT Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	Analysis Bin 2 Filter Date of Installation: 2016 Manufacturer: Donaldson Torit Model Number: CPV1 PM/PM ₁₀ Control Efficiency: 99.5% or PM ₁₀ Emissions Concentration: 0.002 gr/dscf	BA2F (S34)
2	Kiln Byproduct Cyclone Manufacturer: Donaldson Cyclone Model: HV-14 Maximum Capacity: 5 MT/hr Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	Kiln By-Product Cyclone Filter Date of Installation: 2016 Manufacturer: Donaldson Torit Model Number: CPV1 PM/PM ₁₀ Control Efficiency: 99.5% or PM ₁₀ Emissions Concentration: 0.002 gr/dscf	KBPCF (S35)
2	New Malt Conveyor 2 Manufacturer: CUSTOM Model: N/A Maximum Capacity: 160 MT Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	New Malt Conveyor 3 Filter Date of Installation: 2016 Manufacturer: Donaldson Torit Model Number: CPV1 PM/PM ₁₀ Control Efficiency: 99.5% or PM ₁₀ Emissions Concentration: 0.002 gr/dscf	NMC3F (S36)
2	Micro Bins 1-4 Fill Conveyor Manufacturer: CUSTOM Model: N/A Maximum Capacity: 46 MT, each bin Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	Micro Bins Conveyor Filter Date of Installation: 2016 Manufacturer: Donaldson Torit Model Number: CPV1 PM/PM ₁₀ Control Efficiency: 99.5% or PM ₁₀ Emissions Concentration: 0.002 gr/dscf	MBCF (S37)

Permit Section	Source	Control Equipment	Emission Point
2	New Malt Storage Bins 1-5 Fill Conveyor 1 Manufacturer: CUSTOM Model: N/A Maximum Capacity: 750 MT, each bin Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	New Malt Storage Bin Conveyor 1 Filter Date of Installation: 2016 Manufacturer: Donaldson Torit Model Number: CPV1 PM/PM ₁₀ Control Efficiency: 99.5% or PM ₁₀ Emissions Concentration: 0.002 gr/dscf	NMSBC1F (S46)
2	New Malt Storage Bins 6-10 Fill Conveyor 2 Manufacturer: CUSTOM Model: N/A Maximum Capacity: 750 MT, each bin Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	New Malt Storage Bin Conveyor 2 Filter Date of Installation: 2016 Manufacturer: Donaldson Torit Model Number: CPV1 PM/PM ₁₀ Control Efficiency: 99.5% or PM ₁₀ Emissions Concentration: 0.002 gr/dscf	NMSBC2F (S47)
2	Germination Vessel Boilers 1, 2 and 3 The following applies to each boiler: Manufacturer: Cleaver Brooks Model: CFW-700-1500-125HW Maximum Capacity: 2.0 MMBtu/hr heat input Fuel Type: natural gas Date of Construction: 2016 Full Load Consumption Rate: 1950 cf/hr Operation: 24 hr/day, 8760 hr/yr Germination Vessel Boilers 1, 2 and 3 serve two germination vessels (GV1 & GV2), but only two boilers will operate at a time with one boiler as backup.	None	GVB1, GVB2, GVB3 (S38, S39,S40)
2	Germination Vessel Boilers 4, 5 and 6 The following applies to each boiler: Manufacturer: Cleaver Brooks Model: CFW-700-1500-125HW Maximum Capacity: 2.0 MMBtu/hr heat input Fuel Type: natural gas Date of Construction: 2016 Full Load Consumption Rate: 1950 cf/hr Operation: 24 hr/day, 8760 hr/yr Germination Vessel Boilers 4, 5 and 6 serve two germination vessels (GV4 & GV5), but only two boilers will operate at a time with one boiler as backup.	None	GVB4, GVB5, GVB6 (S41, S42, S43)
2	Steep Building Make-Up Air Units 1 and 2 Manufacturer: REZNOR Model: PCDH-175 Maximum Capacity: 2.1888 MMBtu/hr heat input each Fuel Type: natural gas Date of Construction: 2016 Operation: 24 hr/day, 8760 hr/yr	None	MAU1, MAU2 (S44, S45)

Permit Section	Source	Control Equipment	Emission Point
2	Malt Cleaning- Drum Scalper & Two Aspirators (MC) Manufacturer: CIMBRIA drum scalper and KICE aspirator Model: N/A Maximum Capacity: 150 MT/hr Date of Construction: 2016, modification to an existing source Operation: 24 hr/day, 8760 hr/yr	Baghouse 2 (BH2) & Baghouse 3 (BH3) Date of Installation: 1980 Manufacturer: Carter-Day Model: 376RF10 Pressure Drop: 2.5 inch of water Air/Cloth Ratio: 9.4	BH2, BH3
3	Emergency Generator (EG1) Manufacturer: Kohler Model: 45ROZ71 Maximum Rated Horsepower: 60 bhp/45 kW Fuel Type: distillate fuel oil with max. sulfur content of 15 ppm (0.0015% by weight) Model Year: 1980 Date of Construction: 1980 IC Engine Cylinder Displacement: 56 liters per cylinder Operating schedule: 1 hr/day, 100 hr/yr	None	EG

[PROPOSED]

2 MALT AND PELLET PRODUCTION

2.1 Process Description

The Great Western Malting Company Pocatello facility (GWM) produces barley malt from barley grain, but the plant also processes wheat and could process rye, rice or other grains, only in much smaller amounts. If barley is mentioned in this permit, it is assumed to allow the processing of other grains as well. The process of the plant can be divided into four main areas:

- Grain Handling (grain receiving, storage, cleaning and conveying)
- Malting (steeping, germination and kilning)
- Malt Handling (storage, cleaning, conveying, and shipping)
- By-product Handling (pellet making, storage, conveying and shipping)

Refer to Table 1.1 for the information on emissions units, control devices, and emissions points. Refer to statement of basis for more detailed process description.

[PROPOSED]

2.2 Control Device Descriptions

Particulate emissions from grain and malt handling and by-product transferring from Malthouse B are controlled by baghouses, or dust filters. All combustion sources are natural gas-fired. Emissions from combustion sources are uncontrolled.

[PROPOSED]

Emission Limits

2.3 PM Grain Loading Limits

In accordance with IDAPA 58.01.01.675, PM emissions from the following emission sources shall not exceed 0.015 grains per dry standard cubic foot (gr/dscf) of effluent gas adjusted to 3% oxygen by volume:

- Pellet mill boiler
- Malthouse boiler #1 and Malthouse boiler #2
- Ten kiln burners for Malthouse A
- Four kiln burners for Malthouse B
- Germination vessel boilers 1, 2, 3, 4, 5, and 6
- Steep building make-up air units 1 and 2

[PROPOSED]

2.4 Emission Limits

Stack emissions of criteria pollutants (i.e., PM₁₀, PM_{2.5}, and NO_x) and chlorine from the GWM shall not exceed any emissions rate limits listed in Appendix A of the permit.

[PROPOSED]

2.5 Opacity Limit

Emissions from any stack, vent, or functionally equivalent opening associated with the processes, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

2.6 Fuel Type

The fuel burning equipment listed under Permit Condition 2.3 shall burn natural gas exclusively.
[PROPOSED]

2.7 Grain, Malt, and Sulfur Throughput Limits

2.7.1 The amount of grain unloaded at the facility from trucks shall not exceed 150 metric tons per hour (MT/hr) on a rolling daily average and shall not exceed 145,000 metric tons per year (MT/yr) in any consecutive 12-month period.
[PROPOSED]

2.7.2 The amount of grain unloaded at the facility from railcars shall not exceed 150 MT/hr on a rolling daily average and shall not exceed 179,000 MT/yr in any consecutive 12-month period.
[PROPOSED]

2.7.3 The pellet production rate shall not exceed 5.0 MT/hr of pellets on a rolling daily average and shall not exceed 27,000 MT/yr of pellets in any consecutive 12-month period.
[PROPOSED]

2.7.4 The amount of original grain dried in Malthouse A shall not exceed 16.74 MT/hr on a rolling daily average and shall not exceed 130,000 MT/yr in any consecutive 12-month period.
[PROPOSED]

2.7.5 The amount of original grain dried in Malthouse B shall not exceed 21 MT/hr on a rolling daily average and shall not exceed 162,000 MT/yr in any consecutive 12-month period.
[PROPOSED]

2.7.6 The total amount of sulfur used in Malthouse kilning sulfur combustion in Malthouse A shall not exceed 10 pounds per hour on a rolling daily average and shall not exceed 12.45 MT/yr, in any consecutive 12-month period.

2.8 Operation Requirements for Cleaning Germination Vessels

The permittee shall only clean one germination vessel at a time and only clean one germination vessel per day.
[PROPOSED]

2.9 Combustion Sources Fuel Usage Limits and Operating Requirements

2.9.1 The two Malthouse boilers are vented to a common stack. Only one boiler shall operate at a time.
The hourly fuel usage of the operated boiler shall not exceed 25% of one boiler capacity or 0.00625 MMscf/hr. The annual fuel usage of the two boilers shall not exceed 21.04 MMscf/yr, in any consecutive 12-month period.

- 2.9.2 The 10 kiln burners of Malthouse A shall not burn natural gas more than 290 MMscf/yr, in any consecutive 12-month period.
- 2.9.3 The four kiln burners of Malthouse B shall not burn natural gas more than 420 MMscf/yr, in any consecutive 12-month period.
- 2.9.4 Germination Vessel Boilers 1, 2, and 3 serve two germination vessels (GV1 & GV2), but only two boilers shall operate at a time with one boiler as backup.
- Germination Vessel Boilers 4, 5, and 6 serve two germination vessels (GV4 & GV5), but only two boilers shall operate at a time with one boiler as backup.
- 2.9.5 When Malthouse B begins production, the permittee shall use the new natural gas-fired low NOx burners for Malthouse A, shall not use the old ten natural gas-fired Kiln 1 burners for Malthouse A, and the old ten natural gas-fired Kiln 1 burners shall be inoperative.

[PROPOSED]

2.10 Required Control Device

- 2.10.1 The permittee shall use dust filters with a minimum PM₁₀/PM_{2.5} control efficiency of 99.5% to control particulate emissions from the following process steps:

- Steep Tanks Fill Conveyor 1
- Steep Tanks Fill Conveyor 2
- Malthouse B New Malt Leg Conveyor
- Malt Analysis Bins 1-2-fill
- Malt Analysis Bins 1-2-reclaim
- New Malt Conveyor 2
- Micro Bins 1-4- fill conveyor
- Malt Storage Bins 1-5- fill conveyor 1
- Malt Storage Bins 6-10- fill conveyor 2

[PROPOSED]

- 2.10.2 The permittee shall use baghouses to control particulate emissions from the following process steps. Each baghouse shall have a minimum PM₁₀/PM_{2.5} control efficiency of 99.5%.

Process Step	Baghouse
Truck Barley Unload - Stack	BH1
Rail Barley Unload - Stack	BH1
Barley Headhouse Transfers	BH1 & BH2

Process Step	Baghouse
Barley Transfers Before Cleaning	BH2
Barley Transfers After Cleaning	BH2
Feed Barley Transfer to Bins	BH1
Feed Barley Loading for Shipment - Stack	BH3
Pellet Mill Transfers	BH1
Malt Transfers	BH1 & BH3

[PROPOSED]

2.10.3 The permittee shall use dust filters with PM₁₀/PM_{2.5} emissions concentration of 0.002 gr/dscf or less to control particulate emissions from the following process step:

- Malthouse B Byproduct Cyclone

[PROPOSED]

2.10.4 When in operation, the pellet mill cooler shall exhaust through a properly operating air pollution control device at all times, such as a cyclone dust separator.

[PROPOSED]

2.11 Operations and Maintenance (O&M) Manual and Operating Requirements

The O&M manuals and logs shall remain on site at all times and shall be made available to DEQ representatives upon request.

2.11.1 Baghouse/Filter System Procedures

Within 60 days of initial startup of each new baghouse/filter system and within 60 days of the permit issuance for the existing baghouses 1, 2, and 3, the permittee shall have developed a Baghouse/Filter System Procedures document for the inspection and operation of the baghouses/filter system which controls emissions from the processes listed in Permit Condition 2.10. The Baghouse/Filter System Procedures document shall be a permittee developed document independent of the manufacturer supplied operating manual but may include summaries of procedures included in the manufacturer supplied operating manual.

The Baghouse/Filter System Procedures document shall describe the procedures that will be followed to comply with General Provision 4.2 and shall contain requirements for weekly see-no-see visible emissions inspections of the baghouse. The inspection shall occur during daylight hours and under normal operating conditions.

The Baghouse/Filter System Procedures document shall also include a schedule and procedures for corrective action that will be taken if visible emissions are present from the baghouse at anytime. At a minimum the document shall include:

- procedures to determine if bags or cartridges are ruptured; and

- procedures to determine if bags or cartridges are not appropriately secured in place.

The Permittee shall maintain records of the results of each baghouse/filter system inspections in accordance with General Provision 4.10. The records shall include, but not be limited to, the following:

- Date and time of inspection;
- Equipment inspected (e.g. exterior housing of baghouse, fan motor, auger, inlet air ducting);
- Description of whether visible emissions were present, and if visible emissions were present a description of the corrective action that was taken.
- Date corrective action was taken.

The Baghouse/Filter System Procedures document shall be submitted to DEQ within 60 days of initial startup of each new baghouse/filters and shall contain a certification by a responsible official. Any changes to the Baghouse/Filter System Procedures document shall be submitted within 15 days of the change.

The Baghouse/Filter System Procedures document shall also remain on site at all times and shall be made available to DEQ representatives upon request.

The operating, monitoring and recordkeeping requirements specified in the Baghouse/Filter System Procedures document are incorporated by reference to this permit and are enforceable permit conditions.

The Baghouse/Filter Systems shall be operated in accordant with the Baghouse/Filter System Procedures.

[PROPOSED]

2.11.2 Pellet Mill Cyclone Operation

An O&M log for the pellet mill cooler cyclone that at a minimum shall include the following:

- Malfunction incidents log, including the date and description of the malfunction, impact on emissions, duration of event, probable cause, and corrective actions taken; and
- Maintenance log, including inspection schedule, and repair and replacement actions.

The pellet mill cyclone shall be maintained to comply with General Provision 4.2, and manufacturer and O&M manual specifications.

2.11.3 An O&M manual for the Malthouse boilers, which describes the procedures that shall be followed to comply with General Provision 4.2 and manufacturers' recommendations.

2.11.4 An O&M Manual for the Malthouse kilns and sulfur stoves, which describes the procedures that shall be followed to comply with General Provision 4.2 and manufacturer specifications.

2.12 Reasonable Control of Fugitive Emissions

All reasonable precautions shall be taken to prevent particulate matter (PM) from becoming airborne, in accordance with IDAPA 58.01.01.650-651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and/or activities and atmospheric conditions that might affect the movement of PM. Some of the reasonable precautions include, but are not limited to, the following:

- Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of lands.
- Application, where practical, of asphalt, water, or suitable chemicals to, or covering of, dirt roads, material stockpiles, and other surfaces which can create dust.
- Installation and use, where practical, of hoods, fans, and fabric filters or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations.
- Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts.
- Paving of roadways and their maintenance in a clean condition, where practical.
- Prompt removal of earth or other stored material from streets, where practical.

Monitoring and Recordkeeping Requirements

2.13 Grain, Malt, and Sulfur Throughput Monitoring

The following parameters shall be monitored and recorded. For recording daily rolling averages, the permittee shall record the daily amount for each day of operations and calculate the hourly average for that day. Each month, the permittee shall compile the daily records into a monthly sum and record the amounts for that month and for the most recent consecutive 12-month period.

- 2.13.1 The amount of grain unloaded at the facility from trucks in metric tons per hour on a daily rolling average and metric tons in any consecutive 12-month period.
- 2.13.2 The amount of grain unloaded at the facility from railcars in metric tons per hour on a daily rolling average, and metric tons in any consecutive 12-month period.
- 2.13.3 Pellet production rate in metric tons per hour on a daily rolling average and metric tons produced in any consecutive 12-month period.
- 2.13.4 The original grain feed rate to Malthouse A in metric tons per hour on a daily rolling average and metric tons produced in any consecutive 12-month period.
- 2.13.5 The original grain feed rate to Malthouse B in metric tons per hour on a daily rolling average and metric tons produced in any consecutive 12-month period.

[PROPOSED]

- 2.13.6 The total amount of sulfur used in kilning sulfur combustion in Malthouse A in pounds per hour on a rolling daily average and metric tons in any consecutive 12-month period.
- 2.13.7 Within 15 days of the source test required in Permit Condition 2.21 being approved by DEQ, the permittee shall develop emissions factors for PM₁₀ and PM_{2.5} in lb/T of original grain feed. The permittee shall calculate PM₁₀ and PM_{2.5} emissions rates of each Malthouse using the emissions factors developed by the source test to demonstrate compliance with the PM₁₀ and PM_{2.5} emissions limits in Appendix A.

2.14 Monitoring Requirements for Cleaning Germination Vessels and Germination Beds

Germination Vessel Cleaning

- 2.14.1 The permittee shall record the date the germination vessel is cleaned and which germination vessel is cleaned.
- 2.14.2 For each chemical used for the cleaning on that day, the permittee shall record the following:

- name of the chemical
- the chemical components
- the amount

2.14.3 The permittee shall calculate and record the quantity of chlorine emitted on that day to demonstrate compliance with the daily emission limit in Permit Condition 2.4.

Germination Beds Cleaning

2.14.4 Each month, the permittee shall compile the following for each chemical used in germination beds cleaning:

- name of the chemical
- the chemical components
- the amount

2.14.5 Each month, the permittee shall calculate and record the quantity of chlorine emitted in that month from cleaning germination beds and add the monthly chlorine emissions to the previous consecutive 11-month chlorine emissions to demonstrate compliance with the annual chlorine emissions limit in Permit Condition 2.4.

[PROPOSED]

2.15 Combustion Sources Monitoring Requirements

2.15.1 The permittee shall monitor fuel usage of the Malthouse boilers continuously to demonstrate compliance with the operating requirement and hourly fuel usage limit in Permit Condition 2.9.1.

Each month, the permittee shall compile the daily records into a monthly sum and add it to the previous 11-month fuel usage to demonstrate compliance with the annual fuel limit in Permit Condition 2.9.1.

2.15.2 Each month, the permittee shall record total fuel usage of the 10 kiln burners of Malthouse A and add it to the previous 11-month fuel usage to demonstrate compliance with the annual fuel limit in Permit Condition 2.9.2.

2.15.3 Each month, the permittee shall record total fuel usage of the four kiln burners of Malthouse B and add it to the previous 11-month fuel usage to demonstrate compliance with the annual fuel limit in Permit Condition 2.9.3.

2.15.4 Within 60 days of initial startup of the germination vessel boilers, the permittee shall record which germination vessel boilers are in use. The permittee shall record the date and which germination vessel boilers are in use whenever the permittee switches to a different boiler to demonstrate compliance with the operating requirement in Permit Condition 2.9.4.

[PROPOSED]

2.16 Control Device Recordkeeping

2.16.1 The permittee shall keep records (e.g., manufacturer's guarantee) to demonstrate that the dust filters and baghouses have a minimum PM₁₀/PM_{2.5} control efficiency of 99.5% as required in Permit Condition 2.10.

2.16.2 The permittee shall keep records (e.g., manufacturer's guarantee) to demonstrate that the dust filters used to control particulate emissions from Malthouse B Byproduct Cyclone have a PM₁₀/PM_{2.5} emissions concentration of 0.002 gr/dscf or less as required in Permit Condition 2.10.

[PROPOSED]

2.17 Recordkeeping of Burners and Boilers

- 2.17.1 The permittee shall keep records (i.e., manufacturer's guarantee, or source test results) to demonstrate that NO_x emissions from Malthouse kiln burners will not exceed 30 ppm @3% O₂ or 0.036 lb/MMBtu.
- 2.17.2 The permittee shall keep records (i.e., manufacturer's guarantee, or source test results) to demonstrate that the NO_x emissions of Germination Vessel Boilers will not exceed 20 ppm @3% O₂.

[PROPOSED]

2.18 Visible Emissions Monitoring

Except for the weekly monitoring frequency specified in Permit Condition 2.11.1 for dust filters/baghouse system, the permittee shall conduct monthly inspections of each emissions point during daylight hours and under normal operating conditions. The inspection shall consist of a see/no see evaluation for each potential source of visible emissions. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

[PROPOSED]

2.19 Fugitive Dust Monitoring

The permittee shall conduct monthly facility-wide inspections of potential sources of fugitive emissions during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable.

2.20 Visible Emissions and Fugitive Dust Inspection Recordkeeping

The permittee shall maintain records of the results of each visible emissions and fugitive dust emission inspection. The records shall include, at a minimum, the date of each inspection and opacity test and a description of the following: the permittee's assessment of the conditions existing at the time visible or fugitive emissions were present (if observed), any corrective action taken in response to the visible or fugitive emissions, and the date corrective action was taken.

Performance Testing Requirements

2.21 Performance Test for PM₁₀/PM_{2.5}

Malthouse B

Within 180 days of Malthouse B startup, the permittee shall conduct a performance test on the Malthouse B to demonstrate compliance with the PM₁₀ and PM_{2.5} emissions limits for Malthouse B in Appendix A. The emission rate shall be determined by source test methods prescribed by

IDAPA 58.01.01.157 or DEQ approved alternative. The permittee is encouraged to submit a source testing protocol for approval 30 days prior to conducting the performance test.

The permittee shall test in accordance with IDAPA 58.01.01.157 and General Provisions 4.7, 4.8, and 4.9. These General Provisions include notification requirements, testing procedures and reporting requirements.

The permittee shall monitor and record the following during the performance test:

- Total original grain dried in Malthouse B during each test run.

The source test shall be conducted under “worst case normal” conditions as required by IDAPA 58.01.01.157 and General Provisions 4.7, 4.8, and 4.9, and the source test report shall contain documentation that the test was conducted under these conditions.

The permittee may revise emissions factors through future DEQ-approved source test.

[PROPOSED]

Reporting Requirements

2.22 Performance Test Reporting

Performance test reports shall include records of the monitoring and recordkeeping required by the Performance Test for PM₁₀/PM_{2.5} permit conditions (Permit Condition 2.21). Performance test reports shall be submitted by the permittee to the following address:

Air Quality Permit Compliance
Department of Environmental Quality
444 Hospital Way, #300
Pocatello, ID 83201

ph: (208) 236-6160
fx: (208) 236-6168

[PROPOSED]

3 Emergency Generator

3.1 Process Description

Refer to Table 1.1 for the information on the emergency generator, its control, and its emissions point.

[PROPOSED]

3.2 Control Device Descriptions

Emissions from the emergency generator are uncontrolled.

[PROPOSED]

Emission Limits

3.3 Opacity Limit

Emissions from the emergency generator stack, or any other stack, vent, or functionally equivalent opening associated with the emergency generator, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

3.4 Operating Hour Limit

The permittee shall not operate the emergency generator for maintenance activates more than one hour per day.

[PROPOSED]

Monitoring and Recordkeeping Requirements

3.5 Monitoring Requirement

The permittee shall record the date, start time, and end time of engine operation when conducting maintenance activates on the emergency generator to demonstrate compliance with the operating hour limit in Permit Condition 3.4.

[PROPOSED]

Incorporation of Federal Requirements by Reference

3.6 Unless expressly provided otherwise, any reference in this permit to any document identified in IDAPA 58.01.01.107.03 shall constitute the full incorporation into this permit of that document for the purposes of the reference, including any notes and appendices therein. Documents include, but are not limited to:

National Emission Standards for Hazardous Air Pollutants for Source Categories (NESHAP), 40 CFR Part 63 Subpart ZZZZ

For permit conditions referencing or cited in accordance with any document incorporated by reference (including permit conditions identified as NESHAP), should there be any conflict between the requirements of the permit condition and the requirements of the document, the requirements of the document shall govern, including any amendments to that regulation.

[PROPOSED]

40 CFR 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)

3.7 Applicability - 40 CFR 63.6585

The permittee is subject to 40 CFR 63, Subpart ZZZZ because the permittee owns or operates a stationary reciprocating internal combustion engines (RICE) located at an area source of HAP emissions.

[PROPOSED]

3.8 Compliance Date - 40 CFR 63. 6595(a)

The permittee shall comply with applicable operating limitations and other requirements no later than May 3, 2013 unless otherwise specified in the subpart.

[PROPOSED]

3.9 Operating Limitations - 40 CFR 63.6603(a)

The permittee shall meet the applicable requirements specified under item 4 of Table 2d to 40 CFR 63, Subpart ZZZZ.

Summary of Table 2d to 40 CFR 63, Subpart ZZZZ

For each...	You must meet the following requirement, except during periods of startup...
Emergency stationary CI RICE ^a	<ul style="list-style-type: none"> Change oil and filter every 500 hours of operation or annually, whichever comes first;^b Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

- a) Sources have the option to utilize an oil analysis program as described in 40 CFR 63.6625(i) for CI engine in order to extend the specified oil change requirement in Table 2d of 40 CFR 63, Subpart ZZZZ.
- b) If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of 40 CFR 63, Subpart ZZZZ, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

[PROPOSED]

3.10 General Compliance Requirements - 40 CFR 63.6605(a) & (b)

The permittee shall be in compliance with the operating limitations and other requirements in 40 CFR 63, Subpart ZZZZ at all times.

At all times the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by 40 CFR 63, Subpart ZZZZ standard have been achieved. Determination of whether

such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source..

[PROPOSED]

Monitoring, Recordkeeping, and Reporting Requirements

3.11 Operation and Monitoring Requirements - 40 CFR 63.6625(e)(3), (f), (h), & (i)

The permittee shall meet the monitoring, installation, collection, operation, and maintenance requirements specified in 40 CFR 63, Subpart ZZZZ in accordance with 40 CFR 63.6625. The permittee shall:

- Operate and maintain each emergency CI engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with 40 CFR 63.6625(e)(3).
- Install a non-resettable hour meter if one is not already installed, in accordance with 40 CFR 63.6625(f).
- Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes in accordance with 40 CFR 63.6625(h).
- The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee must change the oil within 2 business days or before commencing operation, whichever is later. The permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine, in accordance with 40 CFR 63.6625(i).

[PROPOSED]

3.12 Continuous Compliance Requirements - 40 CFR 63.6640(a), (b), & (f)

The permittee shall demonstrate continuous compliance with each applicable emission limitation and operating limitation in Table 2d to 40 CFR 63, Subpart ZZZZ according to methods specified in Table 6 to 40 CFR 63, Subpart ZZZZ, in accordance with 40 CFR 63.6640(a).

Summary of Table 6 to Subpart ZZZZ of 40 CFR Part 63

For each...	Complying with the requirement to...	You must demonstrate continuous compliance by...
Existing emergency stationary RICE located at an area source of HAP	Work or Management practices	<ul style="list-style-type: none"> • Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or • Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

- The permittee shall report each instance in which each applicable emission limitation or operating limitation in Table 2d to 40 CFR 63, Subpart ZZZZ was not met in accordance with 40 CFR 63.6640(b). These instances are deviations from the emission and operating limitations. These deviations must be reported according to the requirements in 40 CFR 63.6650.
- The permittee shall also report each instance in which the applicable requirements in Table 8 to 40 CFR 63, Subpart ZZZZ were not met in accordance with 40 CFR 63.6640(e).
- The permittee shall operate the emergency stationary RICE according to the requirements in 40 CFR 63.6640(f)(1) through (4). In order for the engine to be considered an emergency stationary RICE under 40 CFR 63, Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (4), is prohibited. If the permittee does not operate the engine according to the requirements in 40 CFR 63.6640(f)(1) through (4), the engine will not be considered an emergency engine under 40 CFR 63, Subpart ZZZZ and must meet all requirements for non-emergency engines..
 - There is no time limit on the use of emergency stationary RICE in emergency situations per 40 CFR 63.6640(f)(1).
 - The permittee may operate each emergency generator for any combination of the purposes specified in 40 CFR 63.6640(f)(2)(i) through (iii) as follows for a maximum of 100 hours per calendar year per 40 CFR 63.6640(f)(2).
 - (i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
 - Per 40 CFR 63.6640(f)(4), each emergency generator may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in 40 CFR 63.6640(f)(2). Except as provided in 40 CFR 63.6640(f)(4)(ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand

response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[PROPOSED]

3.13 Recordkeeping Requirements - 40 CFR 63.6655(d), (e), (f) & 63.6660 (a), (b), & (c)

The permittee shall keep the records described in 40 CFR 63.6655 in accordance with 40 CFR 63.6655 and 40 CFR 63.6660.

- Records required in Table 6 of 40 CFR 63, Subpart ZZZZ to show continuous compliance with each operating limitation that applies to you, in accordance with 40 CFR 63.6655(d).
- Records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan, in accordance with 40 CFR 63.6655(e).
- Records of the hours of operation of each engine that is recorded through the non-resettable hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in 40 CFR 63.6640(f)(2)(ii) or (iii) or 40 CFR 63.6640(f)(4)(ii), the permittee shall keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes, in accordance with 40 CFR 63.6655(f).
- Records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1), in accordance with 40 CFR 63.6660(a).
- The permittee shall keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, in accordance with 40 CFR 63.6660(b).
- The permittee shall keep each record readily accessible in hard copy or electronic form for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, in accordance with 40 CFR 63.6660(c).

[PROPOSED]

3.14 Other Requirements and Information - 40 CFR 63.6665

The permittee shall comply with the applicable general provisions in Table 8 to 40 CFR 63, Subpart ZZZZ in accordance with 40 CFR 63.6665.

[PROPOSED]

4 General Provisions

General Compliance

4.1 The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the “Rules for the Control of Air Pollution in Idaho.” The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit, the “Rules for the Control of Air Pollution in Idaho,” and the Environmental Protection and Health Act (Idaho Code §39-101, et seq.)

[Idaho Code §39-101, et seq.]

4.2 The permittee shall at all times (except as provided in the “Rules for the Control of Air Pollution in Idaho”) maintain in good working order and operate as efficiently as practicable all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.

[IDAPA 58.01.01.211, 5/1/94]

4.3 Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules, and regulations.

[IDAPA 58.01.01.212.01, 5/1/94]

Inspection and Entry

4.4 Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:

- Enter upon the permittee’s premises where an emissions source is located, emissions-related activity is conducted, or where records are kept under conditions of this permit;
- Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
- Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
- As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108]

Construction and Operation Notification

4.5 This permit shall expire if construction has not begun within two years of its issue date, or if construction is suspended for one year.

[IDAPA 58.01.01.211.02, 5/1/94]

4.6 The permittee shall furnish DEQ written notifications as follows:

- A notification of the date of initiation of construction, within five working days after occurrence; except in the case where pre-permit construction approval has been granted then notification shall be made within five working days after occurrence or within five working days after permit issuance whichever is later;
- A notification of the date of any suspension of construction, if such suspension lasts for one year or more;

- A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date; and
- A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
- A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date.

[IDAPA 58.01.01.211.03, 5/1/94]

Performance Testing

4.7 If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

4.8 All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

4.9 Within 60 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

[IDAPA 58.01.01.157, 4/5/00 and 4/11/15]

Monitoring and Recordkeeping

4.10 The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Monitoring records shall include, but not be limited to, the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records 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. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.211, 5/1/94]

Excess Emissions

- 4.11** The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130–136 for excess emissions due to start-up, shut-down, scheduled maintenance, safety measures, upsets, and breakdowns.

[IDAPA 58.01.01.130–136, 4/5/00]

Certification

- 4.12** All documents submitted to DEQ—including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification—shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

[IDAPA 58.01.01.123, 5/1/94]

False Statements

- 4.13** No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.125, 3/23/98]

Tampering

- 4.14** No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

Transferability

- 4.15** This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06.

[IDAPA 58.01.01.209.06, 4/11/06]

Severability

- 4.16** The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

[IDAPA 58.01.01.211, 5/1/94]

5 Appendix A

Emission Limits

Stack Description	PM ₁₀	PM _{2.5}		NOx	Cl ₂
	lb/hr ¹	lb/hr ¹	Ton/yr ²	ppm @ 3% O ₂	lb/day
BH-1 Barley Headhouse	0.08	0.01	0.01		
BH-2 Malt and Barley Cleaning	0.15	0.01	0.014		
BH-3 Malt Cleaning, Loading & Transfer	0.1	0.014	0.004		
KSE-Malthouse A	1.43	0.9	3.51		
KS1-Malthouse A Burner 1	0.06	0.06	0.11	30	
KS2-Malthouse A Burners 2-5	0.24	0.24	0.44	30	
KS3-Malthouse A Burner 6	0.06	0.06	0.11	30	
KS4-Malthouse A Burners 7-9	0.18	0.18	0.33	30	
KS5-Malthouse A Burner 10	0.06	0.06	0.11	30	
CS-Pellet Mill Cooler Cyclone	0.36	0.36	0.98		
BS1-Malthouse Boilers 1&2	0.05	0.05	0.08		
BS2-Pellet Mill Boiler	0.02	0.02	0.08		
S1-Steep Tank Conveyor 1 Filter (STC1F)	0.03	0.005	0.003		
S2-Steep Tank Conveyor 2 Filter (STC2F)	0.03	0.005	0.003		
S27-Kiln 2 Burner 1 (KB1)	0.13	0.13	0.4	30	
S28-Kiln 2 Burner 2 (KB2)	0.13	0.13	0.4	30	

Stack Description	PM ₁₀	PM _{2.5}		NOx	Cl ₂
	lb/hr ¹	lb/hr ¹	Ton/yr ²	ppm @ 3% O ₂	lb/day
S29-Kiln 2 Burner 3 (KB3)	0.13	0.13	0.4	30	
S30-Kiln 2 Burner 4 (KB4)	0.13	0.13	0.4	30	
S31-Kiln 2 (K2)	1.79	1.13	4.37		
S32-New Malt Leg Conveyor Filter (NMLF)	0.04	0.007	0.003		
S33-Analysis Bin 1 Filter (BA1F)	0.04	0.007	0.001		
S34-Analysis Bin 2 Filter (BA2F)	0.04	0.007	0.001		
S35-Kiln Byproduct Cyclone Filter (KBPCF)	0.01	0.007	0.01		
S36-New Malt Conveyor 3 Filter (NMC3F)	0.03	0.005	0.003		
S37-Micro Bins Conveyor Filter (MBCF)	0.01	0.001	0.0002		
S38-S40- Germination Vessel Boilers 1, 2 & 3 (GVB1, GVB2, & GVB3)	0.04	0.04	0.13	20	
S41-S43- Germination Vessel Boilers 4, 5 & 6 (GVB4, GVB5, & GVB6)	0.04	0.04	0.13	20	
S44-Makeup Air Heater 1 (MAU1)	0.02	0.02	0.07	0.22 lb/hr ¹	
S45-Makeup Air Heater 2 (MAU2)	0.02	0.02	0.07	0.22 lb/hr ¹	
S46-Malt Storage Bins Conveyor 1 Filter (NMSBC1F)	0.03	0.005	0.002		
S47-Malt Storage Bins Conveyor 2 Filter (NMSBC2F)	0.03	0.005	0.002		
S19-S26 Germination Vessels 1 to 4 (GV1-GV4)					12.9
GBE 1-6 Germination Beds Exhaust 1 to 6					4.7 T/yr
EG Emergency Generator (EG1)	0.13	0.13	13.2	186 lb/yr	

Stack Description	PM ₁₀	PM _{2.5}		NO _x	Cl ₂
	lb/hr ¹	lb/hr ¹	Ton/yr ²	ppm @ 3% O ₂	lb/day
			lb/yr		

1. Pounds per hour on a rolling daily average. Pounds per hour, as determined by a test method prescribed by IDAPA 58.01.01.157, EPA reference test method, continuous emission monitoring system (CEMS) data, or DEQ-approved alternative.
2. Tons per any consecutive 12-calendar month period.
3. In absence of any other credible evidence, compliance is ensured by complying with permit operating, monitoring, and record keeping requirements.
4. Particulate matter with an aerodynamic diameter less than or equal to a nominal ten (10) micrometers, including condensable particulate as defined in IDAPA 58.01.01.006.

[PROPOSED]