



Tier I Operating Permit
Renewal Application
J.R. Simplot Company
Caldwell, Idaho

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1 INTRODUCTION

The J.R. Simplot Company (Simplot) has owned and operated the Caldwell potato processing facility for more than 50 years. The Caldwell facility produces a number of different products including preformed par fried potatoes and par fried French fries. The facility currently operates pursuant to Idaho Department of Environmental Quality (DEQ) Tier I Permit No. T1-2009.0119 and Permit to Construct (PTC) No. P-2009.0136.

The Caldwell facility is located approximately two miles west of the City of Caldwell on Highway 19 in Canyon County, Idaho. Canyon County is attainment or unclassifiable for all criteria pollutants. Except on the north side where Highway 19 abuts the site, the Caldwell facility is surrounded by Simplot agricultural land. The facility's wastewater treatment plants are located across Highway 19, north of the main production area. Figure 1 displays the facility location while Figure 2 provides a facility site plan.

It is important to note that Simplot operated two potato processing plants at the Caldwell facility until approximately 1998. At that time, Simplot permanently shut down "Plant 1". Although Simplot operates only one plant in Caldwell, Simplot personnel continue to refer it as "Plant 2." Although there are variations in production and work schedules, the Caldwell facility operates 24 hours per day, seven days per week, and up to 52 weeks per year.

In January 2007, Simplot received a renewal Tier I Operating Permit from DEQ. Following the issuance, the Tier I permit was administratively amended four times in:

- March 2007;
- April 2007;
- October 2009; and
- February 2011.

The current Tier I Operating Permit will expire on January 17, 2012. Based on the requirements specified in IDAPA 58.01.01.313.03, Simplot is required to submit a Tier I renewal application at least six months prior to expiration of the existing permits, which is on or before July 17, 2011.

This Tier I renewal application contains the information required by IDAPA 58.01.01.314 as well as some supplemental information that will aid in understanding issues specific to the Caldwell facility. Section 1 (this section) is a general introduction, Section 2 provides detail process descriptions for the major units (Potato Processing Plant, Steam Generating Plant, Air Make Up Units, and Waste Water Treatment Plant), and Section 3 characterizes emission sources and estimates the emissions from the individual sources. While Section 4 analyzes the potentially applicable federal and state regulations, Section 5 presents compliance certification, and Section 6 discusses the compliance plan and schedule.

Simplot Caldwell facility's location, site plan, and process flow diagram are illustrated in Figures 1, 2, and 3, respectively.

DEQ's Tier I Operating Permit Application Completeness Checklist is provided in Appendix A. Appendix B contains DEQ's standard General Information form as well as a signed compliance statement that addresses the requirements in IDAPA 58.01.01.314.01.a and 314.09.a. Appendix C lists the facility wide emission inventory, and Appendix D tabulates the facility's insignificant activities. Appendix E lists general information and specific parameters for fuel burning equipments and process and manufacturing operations.

Compliance assurance monitoring applicability assessment is shown in Appendix F. The potentially applicable regulations are discussed in details in Appendix G, and the requirement-specific compliance certification and demonstration methodology are itemized for each of the equipments and operation processes in Appendix H. Excess emission procedure is illustrated in Appendix I.

2 PROCESS DESCRIPTION

The Caldwell facility has employed the same general production process since the facility began operating. A process flow diagram summarizing operations is provided as Figure 3.

Simplot is not proposing any physical or operational changes with the submittal of the renewal application, but have internally renamed Line 4 to Line 5 and would like the Permit to reflect this.

2.1 Potato Processing Plant

Simplot's Caldwell facility produces par fried French fries and par fried preformed potato products using the same general production process Simplot has used since the facility began operating. Trucks deliver raw potatoes to the facility and Simplot uses a water flume system to wash and transport the potatoes. The potatoes are peeled, cut, blanched, dried, and then fried. After frying the potato products are cooled and then frozen. Once the final potato products are frozen, the packaging line packs the product for shipping.

The Caldwell potato plant currently operates four processing lines (designated Lines 1, 3, 5, and 6). Line 3 is a dehydro frozen line, with steam-heated blanching but no frying or drying, and no emissions. Lines 1 and 5 produce preformed potato products, while Line 6 produces French fries. Lines 1 and 6 have a blancher, a dryer, and a fryer. Line 5 has a blancher and a fryer. Simplot routes the exhaust from the three fryers through the wet electrostatic precipitator (WESP) to ensure compliance with opacity standards.

The WESP is located just north of the main production building; its location is presented on Figure 2. DEQ standard forms in Appendix E provide additional information about the fryers and WESP.

Figure 2 also shows the dryer stacks, which are located along the southwestern edge of the main production building. Figure 3 presents a process flow diagram for the facility.

2.2 Steam Generating Plant

The Caldwell facility's steam generating plant consists of two boilers, Boiler No.1 and Boiler No.8. While Boiler No.8 is capable of combusting only natural gas, Boiler No.1 is capable of burning either 100 percent natural gas, or a mixture of natural gas and biogas generated by the anaerobic digester. Assuming the digester produces biogas at its annual average design rate for an entire year, and Simplot combusts all of the biogas in Boiler No.1, the biogas would offset the boiler's natural gas usage by up to 14 percent on an annual basis.

The two natural gas-fired boilers (Boilers No.1 and No.8) provide process steam to heat the steam peelers, blanchers, and fryers. Boiler No.1 can burn biogas and is subject to limitations specified in permit PTC P-2009.0136. Boiler No. 8 is subject to limitations in the facility Tier 1 permit (TI-2009-0119). A third boiler (Boiler No.11) was temporarily installed at the Caldwell facility in 2007, but Simplot removed temporary Boiler No.11 from the facility in 2009.

Boiler No.1 is equipped with two economizers (traditional and condensing economizer), each with its own stack. Based upon process heat needs at the facility, Simplot varies the amount of boiler exhaust that is routed through each economizer.

PTC P-2009.0136 permit conditions for Boiler No.1 are incorporated into this Tier 1 renewal application. Boilers No.9 and 10 have been permanently shutdown and should be removed from the Caldwell facility Tier I Operating Permit.

Appendix E presents DEQ standard forms that provide additional details about the facility's two boilers.

2.3 Air Make Up Units

To maintain a comfortable indoor air temperature from the receiving areas to the final packaging area, Simplot has installed natural gas-fired air makeup units (AMUs) for use during the winter. These heaters do not provide any process heat; they are solely intended to provide comfort heat for the employees.

2.4 Waste Water Treatment Plant

The Caldwell facility's wastewater treatment plant employs an anaerobic digester to treat the starch-laden process water from the main production facility. The anaerobic digester relies upon bacteria to breakdown the waste compounds in the facility's process water. The anaerobic digestion process generates biogas that contains a number of gaseous byproducts including methane, carbon dioxide, and hydrogen sulfide. Simplot combusts the digester biogas either in the waste water treatment plant's biogas flare or routes the biogas to Boiler No.1, or simultaneously in both units.

3 EMISSION SOURCES AND ESTIMATES

All of the emission sources at the Caldwell facility are directly associated with potato processing with the exception of the facility's biogas flare. As with most facilities of this type, Simplot's Caldwell facility generates combustion-related emissions associated with the steam-generating plant and AMUs, volatile organic compound (VOC) and particulate emissions from the fryers, and particulate and combustion-related emissions from the dryers. The biogas flare generates combustion-related emissions as well as sulfur dioxide. Appendix C presents an emission inventory that addresses all of the sources at the Caldwell facility with the exception of the sources that qualify as insignificant emission units. Appendix D presents a list of the Caldwell facility's insignificant emission units.

Table 1: Caldwell Plant Potential to Emit (TPY)	
Pollutant	Total Emissions
Criteria Air Pollutants	
PM10	127.4
NOx	89.4
SO₂	90.6
CO	107.5
VOC	26.3
Total HAPs	
HAPs	2.1
Greenhouse Gas ^(a)	
CO₂	139,074
CH₄	2.6
N₂O	0.3
CO₂e^(b)	139,210
Notes:	
(a) Preliminary GHG emissions were calculated for Boilers 1 and 8, Dryers 1 and 6, AMUs, Biogas Flare, and WESP.	
(b) CO ₂ e was based on emissions of CO ₂ , CH ₄ , and N ₂ O and global warming potentials (GWPs) in 40CFR Part 98 Subpart A Table A-1.	

3.1 Steam Generation Plant

The Caldwell facility's steam generating plant, which is located along the southern edge of the main production building, houses two natural gas-fired boilers, Boiler No.1 and Boiler No.8. Boiler No.1 has a maximum heat input rating of 98.25 million British thermal units per hour (MMBtu/hr), and is permitted to combust natural gas or a mixture of natural gas and biogas.

Boiler 1 is equipped with a condensing economizer; and based upon process needs in the facility, Simplot will vary the amount of Boiler No.1 exhaust that is routed through the condensing economizer. Boiler No.1 is also equipped with a flue gas recirculation (FGR) system to reduce nitrogen oxides (NOx) emissions.

Simplot used AP-42, Section 1.4 emission factors to calculate the Boiler No.1 criteria pollutant potential to emit (PTE) attributable to natural gas or biogas combustion. Appendix C presents the boiler's criteria pollutant PTE.

Approximately 60 percent of the digester's biogas is combustible methane, a small fraction is hydrogen sulfide (H₂S – 5,391 ppmv), and the remainder is carbon dioxide, an incombustible gas. Because the combustible portion of the biogas is similar to natural gas, Simplot used emission factors from AP-42 Section 1.4 to calculate Boiler No.1 emission rates attributable to combusting the natural gas/biogas mixture.

Simplot converted the AP-42 natural gas emission factors to “lb/MMBtu” and multiplied each emission factor by the maximum heat input rate of Boiler No.1 to calculate potential hourly emission rates for all pollutants.¹ Annual emission rate calculations are based on 8,760 hours of operation per year.

Using the maximum hydrogen sulfide concentration (5,391 ppmv) and digester gas production information, Simplot calculated the additional short-term and long-term sulfur dioxide (SO₂) emissions attributable to combustion of biogas (assuming 100 percent of biogas H₂S would be converted to SO₂) (See Appendix C for details).

Appendix C presents the criteria pollutant PTE attributable to combustion of the biogas/natural gas fuel mixture in Boiler No.1. Also presented in Appendix C are toxic air pollutant (TAP), and hazardous air pollutant (HAP) PTE for Boiler 1.

Boiler 8 has a rated capacity of 80.8 MMBtu/hr. The uncontrolled emission factors from Section 1.4 of EPA's AP-42 reference document provide the basis for Boiler 8 emission calculations. The calculated emission rates for Boiler 8 for criteria pollutants, TAPs, and HAPs are presented in Appendix C.

3.2 Potato Fryers

The steam generating plant provides process steam to multiple points across the facility. Three of those points are the facility's Line 1, Line 5, and Line 6 fryers, which are located in the main production building. Although the fryers do not have any combustion emissions directly related to their operation, they emit particulate matter and VOCs.

Historically, the Caldwell facility employed wet scrubbers to control the fryers' exhaust. However, an October 1999 Consent Order between Simplot and DEQ mandated that Simplot

¹ The method used to convert the natural gas emission factors from “lb/mmscf” to “lb/MMBtu” is discussed in AP-42 Section 1.4.

install additional air pollution control equipment on the Line 1 fryer. In 2000, Simplot replaced the scrubbers with a GeoEnergy WESP. Although Simplot currently vents all three fryers' emissions through this control device, only the Line 1 fryer has emission limits and a requirement that fryer emissions pass through the WESP.

The potential emissions from the WESP are based on current emission limits, and the calculated emissions associated with this equipment are presented in Appendix C.

3.3 Potato Dryers

Simplot operates two dryers at the Caldwell facility. Line 1 dryer is heated by steam produced by the boilers, and the only emissions from the dryer are small quantities of particulate matter attributed to the drying potatoes. The Line 6 Dryer is heated by natural gas-fired burners; this dryer has emissions attributable to the drying potato product and to the products of combustion of natural gas. At the time of the last Tier I operating permit renewal, Simplot was also operating a dryer on what was then called Line 4. The Line 4 Dryer was removed in September 2007, so there are no longer any emissions from a Line 4 Dryer.

Simplot quantifies dryer emissions of particulate matter using source-specific source test data from October 2000 and emissions of other pollutants using uncontrolled emission factors from Section 1.4 (natural gas combustion) of EPA's AP-42 reference document.

Appendixes C and E provide emission recalculations for the dryers and dryer equipment details, respectively.

3.4 Air make Up Units

The main production building houses natural gas-fired AMUs to maintain a comfortable working temperature in the facility during the cooler months. The facility's AMUs, which are direct heating devices, do not vent to the atmosphere through stacks. Rather, the AMUs vent directly into the main production building and the associated combustion products exit the building through vents, doors, and windows.

With the exception of one AMU, all of the facility's AMUs are considered insignificant emission units due to either their rated heat input capacities or their potential emissions. IDAPA 58.01.01.317.01.b(i)(5) defines natural gas-fired combustion equipment with rated heat input capacities less than 5.0 MMBtu/hr as insignificant emission units while IDAPA 58.01.01.317.01.b(i)(30) categorizes sources with potential and actual emissions less than certain emission limits as insignificant emission units. Appendix D provides additional detail about the insignificant AMUs. Additionally, both the standard forms in Appendix E and the emission inventory in Appendix C address all of the facility's AMUs.

Uncontrolled emission factors from Section 1.4 of EPA's AP-42 reference document provide the basis for the emission estimates in Appendix C.

3.5 Anaerobic Digester and Biogas Flare

As mentioned previously, the anaerobic digester treats the starch-laden process water from the main production building. Simplot burns the gaseous byproducts of the anaerobic digestion process, which includes hydrogen sulfide, in the biogas flare as well as in Boiler No.1. Except for the sulfur content, the biogas has a similar composition to natural gas.

Accordingly, emission factors from Section 1.4, Natural Gas Combustion, of EPA's AP-42 reference document, adjusted to reflect the heat content of the biogas, provide the basis for the biogas flare's particulate emission rate. Emission factors from Section 13.5, Industrial Flares, provided the basis for the biogas flare's carbon monoxide (CO), NO_x, and volatile organic chemical (VOC) emission rates, while mass-balance calculations provided the basis for the SO₂ emission rates.

Appendix C presents additional detail on the emission calculations while Appendix E presents additional information regarding the biogas flare.

4 POTENTIALLY APPLICABLE REGULATIONS

The Caldwell facility is subject to federal and state air pollution control regulations. This section discusses each applicable regulation and details why other federal and state regulations are not applicable.

4.1 Federal Requirements

4.1.1 National Emission Standards for Hazardous Air Pollutants

EPA has established National Emission Standards for Hazardous Air Pollutants (NESHAP) under 40 CFR 63 to regulate hazardous air pollutant (HAP) emissions from industrial boilers that are major or area sources of hazardous air pollutants. A major source of HAPs emits or has the potential to emit 10 tons per year (tpy) or more of any single HAP or 25 tpy or more of any combination of HAP. An area source is a HAP-emitting stationary source that is not a major source.

On March 21, 2011, EPA issued Maximum Achievable Control Technology (MACT) standards for boilers and process heaters at major sources of hazardous air pollutants (HAPs) (MACT rule for major sources, 40 CFR 63 Subpart DDDDD). Concurrently, EPA published the national emission standards for hazardous air pollutants for industrial, commercial, and institutional boilers at area source facilities (MACT rule for area sources, 40 CFR 63 Subpart JJJJJJ). Standards for area sources can be based on either generally available control technology (GACT), or maximum achievable control technology.

The total HAP emissions from the Caldwell facility is 2.1 tpy based on the most recent emission inventory calculations, which is lower than the 10 tpy threshold for single HAP and 25 tpy threshold for all HAPs. Therefore, the Caldwell facility's boilers are located at area (minor HAP) sources of HAPs, and they are not subject to the requirements of the Boiler MACT rule for major sources.

The new MACT rule for area sources lists seven types of boilers that are not subject to any requirements in 40 CFR 63 Subpart JJJJJJ, including gas-fired boilers. According to the definitions provided in the rule, "gas-fired boiler" includes any boiler that burns gaseous fuels not combined with any solid fuels, burns liquid fuel only during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. The gaseous fuels includes, but is not limited to, natural gas, process gas, landfill gas, coal derived gas, refinery gas, hydrogen, and biogas.

Because the boilers at the Caldwell facility only use natural gas and biogas, they belong to the gas-fired boiler category at area source facilities. Subsequently, these boilers are not subject to any requirements of the MACT rule for area sources.

Moreover, 40 CFR 63 Subpart ZZZZ establishes emission limitations and operating limitations for HAPs emitted from stationary reciprocating internal combustion engines (RICE) located at

major or area sources of HAP emissions. As discussed above, the Caldwell facility is not a major source, but there are area source provisions that apply to the engines at the Caldwell facility.

Subpart ZZZZ applies to new (installed on or after June 12, 2006) or existing (installed before June 12, 2006) stationary compression ignition (CI) RICE with a site rating of less than or equal to 500 brake HP located at an area source of HAP emissions. Engines subject to Subpart ZZZZ must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. For a new (installed on or after June 12, 2006) or an existing (installed before June 12, 2006) stationary spark ignition (SI) RICE with a site rating of less than or equal to 500 brake HP located at an area source of HAP emissions, the compliance deadline is October 19, 2013.

Simplot operates four reciprocating engines at Caldwell for emergency purposes only:

- A 166 HP diesel CI engine
- A 287 HP diesel CI engine
- A 14.8 HP natural gas fired SI engine
- A 55 HP natural gas fired SI engine

Only the 14.8 HP SI engine was installed after 2006.

For the two diesel CI engines, Simplot will demonstrate the compliance with Subpart ZZZZ on or before May 3, 2013 by following the oil and filter change and inspection requirements for emergency stationary CI RICE specified in Table 2d of Subpart ZZZZ (Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions). For the 55 HP natural gas fired SI engine, Simplot will demonstrate the compliance to Subpart ZZZZ by October 19, 2013 by following the requirements for emergency stationary SI RICE specified in Table 2d of Subpart ZZZZ

The 14.8 HP SI engine is subject to the requirements of New Source Performance Standards in 40 CFR Part 60, Subpart JJJJ, since it was installed after June 12, 2006.

4.1.2 New Source Performance Standards

EPA has established New Source Performance Standards (NSPS) for new, modified, or reconstructed facilities and source categories. EPA has promulgated NSPS sections that potentially apply to the Caldwell facility's industrial boilers.

Standards in the promulgated NSPS subpart Dc apply to steam generating units for which construction, modification, or reconstruction was started after June 9, 1989, and that have a maximum design heat input capacity between 10 million Btu/hr and 100 million Btu/hr. The Dc standard of performance applies to units that combust any of several fuel types, including coal, oil, natural gas, and wood.

Because the Caldwell facility's Boiler No.1 has a rated input capacity of 98.25 MMBtu/hr, which is less than 100 MMBtu/hr and greater than 10 MMBtu/hr, and it was manufactured after June 9, 1989, the boiler is therefore subject to the requirements of NSPS (40 CFR 60 Subpart Dc). The Dc rule does not require performance testing, and has no emission rates limits or opacity limits for boilers burning only natural gas. The only substantive requirements are construction and startup notification, notification of changes that affect emissions, and monitoring natural gas usage rates.

The other Caldwell facility's Boiler, Boiler No.8 is not subject to this regulatory program because it was installed prior to June 9, 1989, and Simplot has not modified these boilers since it was installed.

NSPS Subpart JJJJ sets standards for SI RICE for compliance. Section 60.4233 specifies that owners and operators of stationary SI engine with a maximum engine power less than or equal to 19 KW (25 HP) manufactured on or after July 1, 2008, must comply with the emission standards in Section 60.4231(a) for NO_x, hydrocarbons (HC), non-methane hydrocarbons (NMHC) and CO.

The only SI RICE at the Caldwell facility that will be subject to the Subpart JJJJ standards is the 14.8 HP SI engine for emergency purpose. Simplot will comply with Subpart JJJJ by using engines certified under 40 CFR Part 90 or 1048 and keep records of hours of emergency operation.

4.1.3 Prevention of Significant Deterioration

Potato processing facilities are not designated facilities under 40 CFR 52.21(b); as such, these types of facilities are deemed minor sources for the purposes of the Prevention of Significant Deterioration (PSD) program unless emissions of a regulated pollutant exceeds 250 tons per year. As indicated in Appendix C, the facility's PTE of regulated pollutants is less than the 250 ton major source threshold. Accordingly, the Caldwell facility is not subject to the PSD program.

However, the potential natural gas consumption based on boiler and burner firing capacity is high enough that potential carbon dioxide emissions exceed 100,000 tons per year. Consequently, the Caldwell facility will be considered a major source with respect to the PSD program when the second step of the Tailoring rule takes effect on July 1, 2011. There are no immediate consequences associated with PSD major source status.

4.1.4 Title IV Acid Rain Provisions

Title IV of the federal Clean Air Act regulates sulfur dioxide and oxides of nitrogen emissions from fossil fuel-fired electrical generation facilities. The Caldwell facility's boilers combust natural gas, however the Caldwell facility does not generate electricity. Accordingly, Simplot's Caldwell facility is not subject to the Title IV Acid Rain Provisions in the Clean Air Act.

4.1.5 Title V Operation Permit

Title V of the federal Clean Air Act requires facilities with the potential to emit more than 100 tons of a regulated criteria pollutant, 10 tons of a single HAP, or 25 tons of all HAP combined on an annual basis to obtain a Title V Air Operating Permit. As of July 1, 2011, Title V applicability is also triggered if greenhouse gas emissions exceed 100,000 tons per year. The Simplot-Caldwell facility is subject to Title V because potential annual CO and PM₁₀ emissions exceed 100 tons. In addition, the facility will be considered a major source because potential carbon dioxide emissions exceed 100,000 tons; this exceeds the greenhouse gas Title V applicability criterion that takes effect on July 1, 2011

EPA delegated implementation of the Title V program to DEQ. Accordingly, Simplot submits all requisite Title V applications and reports to both DEQ and EPA Region 10.

4.1.6 Compliance Assurance Monitoring

EPA established the Compliance Assurance Monitoring (CAM) program to regulate emission sources that employ a control device to maintain compliance with an enforceable emission limit. 40 CFR Part 64.2 establishes the three applicability criteria for the CAM program:

- The unit is subject to an emission limit;
- The unit uses a control device to achieve compliance with that limit; and
- The unit has pre-control emissions of 100 percent of the major source threshold.

With the exception of the WESP for the Lines 1 and 6 fryers, none of the emission units at the facility employ a control device. As such, the fryers are the only emission units that are potentially subject to CAM.

Boiler No.1 is equipped with a flue gas recirculation (FGR) system to reduce NOx emissions. However, the FGR system is integral to the burner and an essential component of the low-NOx design of the boiler. Furthermore, as discussed in DEQ's Statement of Basis for the boiler permit, pre-control NOx emissions are less than 70 tons. Therefore, Boiler No.1 is not subject to CAM.

Although the Line 1 fryer has a PM₁₀ emission limit and its PM₁₀ emissions are controlled by a WESP, CAM does not apply to the Line 1 fryer because its pre-control emissions are less than 100 tons per year. Prior Tier I applications have included source test data for uncontrolled particulate matter emissions from fryers at Simplot's Caldwell, Aberdeen, and Hermiston facilities. All of these tests indicate that uncontrolled particulate matter emissions from the Caldwell fryers would be less than 100 tpy. Accordingly, a CAM plan is not required for the WESP. Appendix F presents a CAM applicability determination for each source at the Caldwell facility, and the applicability determination for Boiler No.1 is included in this Appendix.

4.2 State Requirements

4.2.1 Permit to Construct Program

DEQ's PTC regulations require all facilities to obtain a PTC or a documented exemption determination before beginning construction of a new source of air pollution or modifying an existing source in a manner that would cause its emissions to increase. Simplot has worked with DEQ to establish a PTC for all of the air pollution sources at the Caldwell facility with the exception of those that are exempt from new source review requirements.

Based on Simplot's review, the permitted conditions specified in the most recent PTC (P-2009.0136) are yet to be incorporated into the Tier 1 permit. Simplot requests that DEQ incorporates the revised conditions into the facility's Tier I renewal permit.

4.2.2 Tier I Operating Permit

DEQ's PTC regulations require all facilities to obtain a PTC or a documented exemption determination before beginning construction of a new source of air pollution or modifying an existing source in a manner that would cause its emissions to increase. Simplot has worked with DEQ to establish a PTC for all of the air pollution sources at the Caldwell facility.

Based on Simplot's review, the permitted conditions specified in the most recent PTC (P-2009.0136) are yet to be incorporated into the Tier 1 permit. Simplot requests that DEQ incorporates the revised conditions into the facility's Tier I renewal permit.

Simplot does not have any PTC actions pending. Simplot will comply with the requirements of the rule and will submit PTC applications before constructing any new sources or modifying any existing sources such that a PTC is required.

4.2.3 General Requirements

Idaho has no performance or technology standards specifically for potato processing facilities. The only state requirements directly applicable to the facility are rules that address general air quality issues, including:

- Opacity [IDAPA 58.01.01.625]
- Fugitive particulate matter emissions [IDAPA 58.01.01.650-651]
- Particulate emissions from fuel burning equipment [IDAPA 58.01.01.677]
- Particulate matter emissions from new process equipment [IDAPA 58.01.01.701]
- Particulate matter emissions from existing process equipment [IDAPA 58.01.01.702]
- Nuisance odors [IDAPA 58.01.01.776.01]

Although the 'particulate emissions from fuel burning equipment' standard applies facility-wide, this regulation does not apply to the facility's AMUs. This standard is applicable to fuel-burning equipment, which is defined as equipment that burns fuel for the primary purpose of producing

heat by indirect heat transfer. The AMUs burn fuel for the primary purpose of producing heat, but they employ direct heat transfer to warm the production facility.

A complete listing of the applicable and inapplicable federal and state air quality regulations, as well as additional information regarding the applicability determinations, is included as Appendix H.

The “particulate emissions from new process equipment” standard applies to the facility’s fryers and dryers. As part of the facility’s 2005 Tier I Operating Permit Renewal Application, Simplot examined the facility’s compliance with this regulation. Based on the calculations included with the 2005 renewal application, Simplot determined that all of the applicable sources at the Caldwell were in compliance with this regulation. Since then, Simplot changed what was then the “Line 4” fryer from processing french fries to pre-formed potato product and removed what was then called the “Line 4” dryer. With the change in product, Simplot renamed the production line “Line 5.” Because removal of the Line 4 dryer reduces particulate emissions, Simplot continues to be in compliance with this regulation.

5 COMPLIANCE CERTIFICATION

The Caldwell facility is currently in compliance with all applicable air quality regulations. Appendix I provides the current compliance status and an explanation of how the compliance determination was evaluated for each specific applicable requirement. Although Appendix I does not address the general requirements that apply facility-wide, Simplot is in compliance with each of them. Additionally, Appendix I describes a method for demonstrating on-going compliance with each specific applicable requirement.

IDAPA 58.01.01.314.09.b mandates that the applicant provide a schedule for submitting compliance certifications during the Tier I permit term. The facility's current Tier I permit requires Simplot to submit semi-annual compliance reports for the time periods October 4 through March 4 and March 5 through October 3 of each year. The permit requires Simplot to submit these reports within 30 days of the end of each reporting period.

However, Simplot proposes to revise the compliance reporting schedule to correspond with the issuance date of the facility's Tier I permit. As such, Simplot proposes that the annual period for certification start the date DEQ issues the facility's renewed Tier I permit. Based on this schedule the first semi-annual report would be due seven months after the issuance date of the permit, and that the first annual report would be due thirteen months after the issuance date. Each subsequent semi-annual and annual report would be due one year after the initial submittal dates.

6 COMPLIANCE PLAN AND SCHEDULE

The Caldwell facility is currently in compliance with all applicable air quality requirements. Additionally, Simplot is not aware of any federal or state applicable requirements that will become effective during the term of the Tier I operating permit. However, if any applicable requirements take affect during the facility's Tier I operating permit term, Simplot will meet the applicable requirement as expeditiously as possible. If an applicable requirement with a specific timeline for compliance becomes effective during the permit term, Simplot will comply with the requirement on the schedule established by the requirement.

Figures

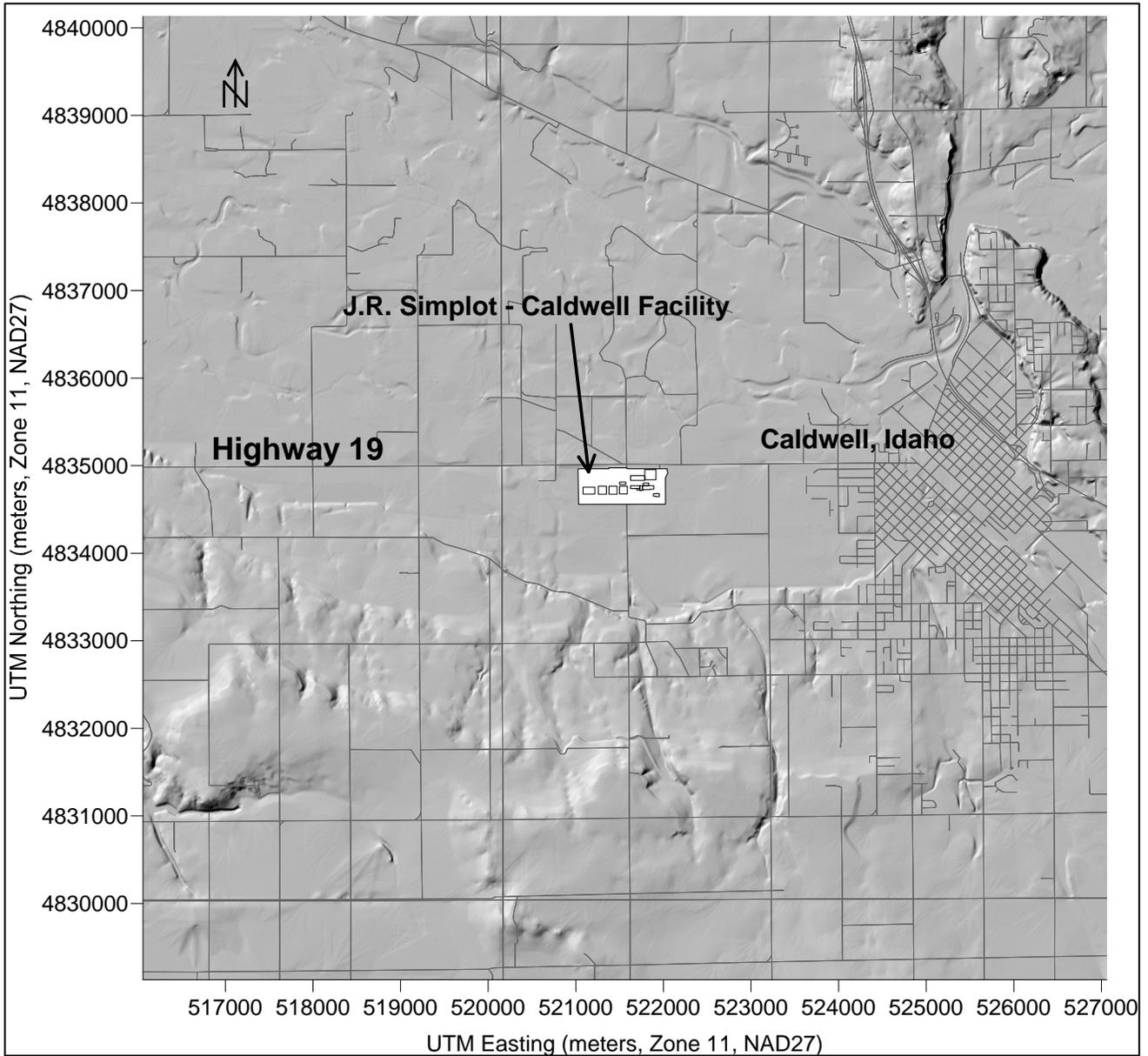


Figure 1. Simplot-Caldwell Facility Location

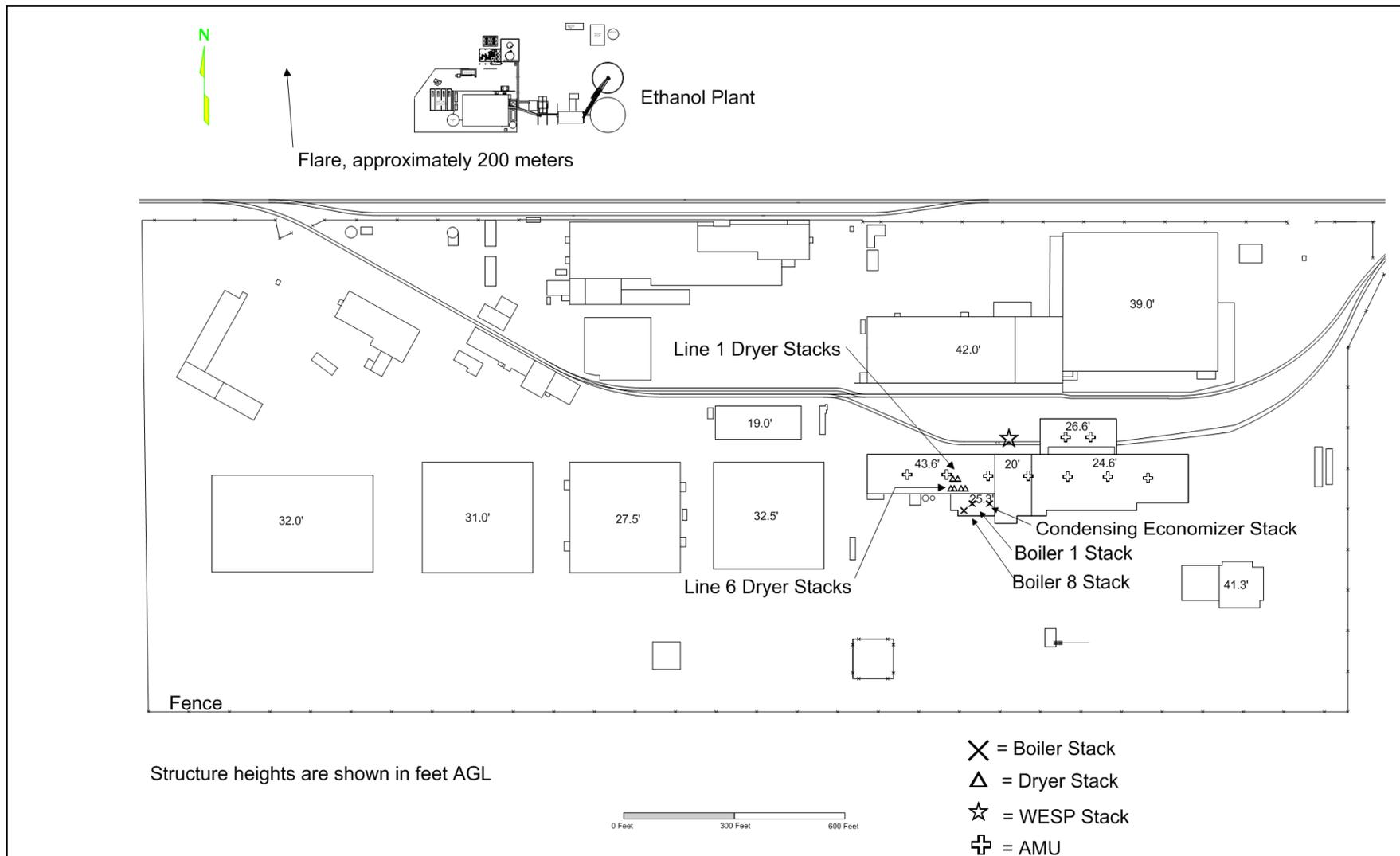


Figure 2. Simplot-Caldwell Site Plan

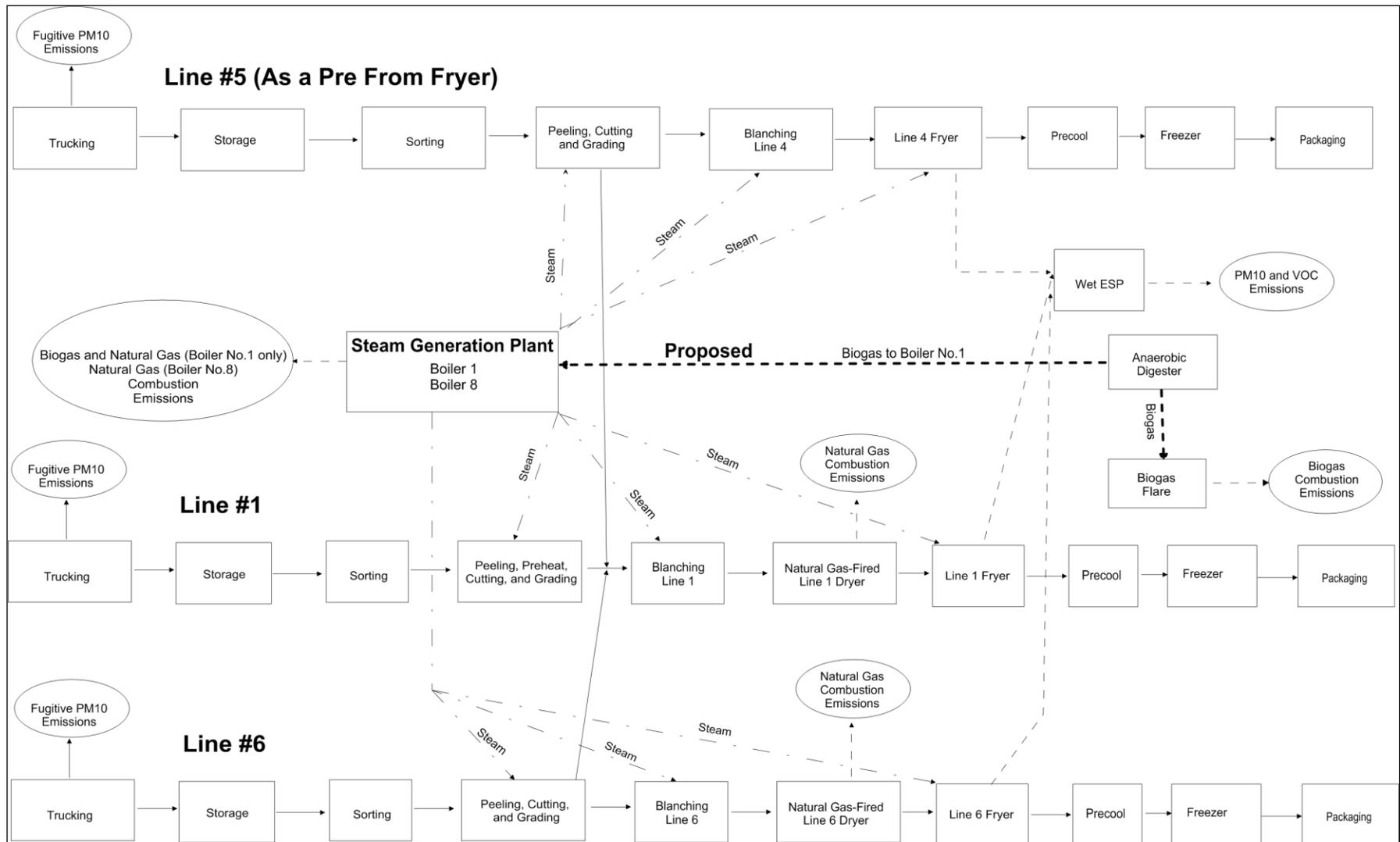


Figure 3. Simplot-Caldwell Process Flow Diagram

Appendix A
Air Quality Operating Permit Application Forms and Check List



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

Cover Sheet for Air Permit Application – Tier I **Form CSTI**
 Revision 5
 08/28/08

Please see instructions on page 2 before filling out the form.

COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER			
1. Company Name	J.R. Simplot Company		
2. Facility Name	Caldwell Plant	3. Facility ID No.	027-00009
4. Brief Project Description - One sentence or less	Tier I Operating Permit Renewal Application		
PERMIT APPLICATION TYPE			
5. <input type="checkbox"/> Initial Tier I <input type="checkbox"/> Tier I Administrative Amendment <input type="checkbox"/> Tier I Minor Modification <input type="checkbox"/> Tier I Significant Modification <input checked="" type="checkbox"/> Tier I Renewal: Permit No.: <u>T1-2009.0119</u> Date Issued: <u>2/4/2011</u>			
FORMS INCLUDED			
Include d	N/A	Forms	DEQ Verify
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form CSTI – Cover Sheet	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form GI – Facility Information	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU0 – Emissions Units General	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU1– Industrial Engine Information Please specify number of EU1s attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU2– Nonmetallic Mineral Processing Plants Please specify number of EU2s attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU3– Spray Paint Booth Information Please specify number of EU3s attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU4– Cooling Tower Information Please specify number of EU4s attached: _____	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU5 – Boiler Information Please specify number of EU5s attached: <u>2</u>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CBP– Concrete Batch Plant Please Specify number of CBPs attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form HMAP – Hot Mix Asphalt Plant Please specify number of HMAPs attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	PERF – Portable Equipment Relocation Form	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form BCE– Baghouses Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form SCE– Scrubbers Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form VSCE – Venturi Scrubber Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form ESP – Electrostatic Precipitator	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form AO – Afterburner/Oxidizer	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CYS – Cyclone Separator	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CA – Carbon Adsorber	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms EI-CP1 - EI-CP4– Emissions Inventory– criteria pollutants (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form CAM – Compliance Assurance Monitoring	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form FRA – Federal Regulation Applicability	<input type="checkbox"/>



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

General Information **Form GI**
 Revision 7
 2/18/10

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

IDENTIFICATION

1. Company Name		2. Facility Name:	
J.R. Simplot Company		Caldwell Plant	
3. Brief Project Description:	Tier I Operating Permit Renewal Application		

FACILITY INFORMATION

4. Primary Facility Permit Contact Person/Title	Lance Carter	Environmental Manager
5. Telephone Number and Email Address	(208) 454-4360	lance.carter@simplot.com
6. Alternate Facility Contact Person/Title	Henry Hamanishi	Manager of Environmental Engineering
7. Telephone Number and Email Address	(208) 389-7375	henry.hamanishi@simplot.com
8. Address to Which the Permit Should be Sent	P.O. Box 1059	
9. City/County/State/Zip Code	Caldwell	Canyon ID 83606
10. Equipment Location Address (if different than the mailing address above)		
11. City/County/State/Zip Code		
12. Is the Equipment Portable?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
13. SIC Code(s) and NAICS Code	Primary SIC: 2037	Secondary SIC: NAICS: 311411
14. Brief Business Description and Principal Product	Potato Processing	
15. Identify any adjacent or contiguous facility that this company owns and/or operates		
16. Specify the reason for the application	<input type="checkbox"/> Permit to Construct (PTC) <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>For Tier I permitted facilities only: If you are applying for a PTC then you must also specify how the PTC will be incorporated into the Tier I permit.</p> <input type="checkbox"/> Incorporate the PTC at the time of the Tier I renewal <input type="checkbox"/> Co-process the Tier I modification and PTC <input type="checkbox"/> Administratively amend the Tier I permit to incorporate the PTC upon your request (IDAPA 58.01.01.209.05.a, b, or c) </div> <input checked="" type="checkbox"/> Tier I Permit <input type="checkbox"/> Tier II Permit <input type="checkbox"/> Tier II/Permit to Construct	

CERTIFICATION

In accordance with **IDAPA 58.01.01.123 (Rules for the Control of Air Pollution in Idaho)**, I certify based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

17. Responsible Official's Name/Title	Ron Wagstaff	Unit Director
18. Responsible Official's Signature		Date:
19. <input type="checkbox"/> Check here to indicate that you would like to review the draft permit prior to final issuance.		



Please see instructions on page 2 before filling out the form.

IDENTIFICATION				
1. Company Name: J.R. Simplot Company		2. Facility Name: Caldwell Plant		3 Facility ID No: 027-00009
4. Brief Project Description:		Tier I Operating Permit Renewal Application		
EXEMPTION				
Please see IDAPA 58.01.01.222 for a list of industrial boilers that are exempt from Permit to Construct requirements.				
BOILER (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS				
5. Type of Request: <input type="checkbox"/> New Unit <input type="checkbox"/> Unpermitted Existing Unit <input type="checkbox"/> Modification to a Unit with Permit #: For Tier 1 Renewal				
6. Use of Boiler: <input checked="" type="checkbox"/> % Used For Process <input type="checkbox"/> % Used For Space Heat <input type="checkbox"/> % Used For Generating Electricity <input type="checkbox"/> Other: 100				
7. Boiler ID Number: BOILER, S-C-B1		8. Rated Capacity: <input checked="" type="checkbox"/> 98.25 Million British Thermal Units Per Hour (MMBtu/hr) <input type="checkbox"/> 1,000 Pounds Steam Per Hour (1,000 lb steam/hr)		
9. Construction Date: 2010		10. Manufacturer: English Boiler & Tube Boiler	11. Model: 80DD325	
12. Date of Modification (if applicable):		13. Serial Number (if available): 28016	14. Control Device (if any): Note: Attach applicable control equipment form(s)	
FUEL DESCRIPTION AND SPECIFICATIONS				
15. Fuel Type	<input type="checkbox"/> Diesel Fuel (#) (gal/hr)	<input checked="" type="checkbox"/> Natural Gas (cf/hr)	<input type="checkbox"/> Coal (unit: /hr)	<input checked="" type="checkbox"/> Other Fuels (unit:cf /hr)
16. Full Load Consumption Rate		96,323 cf/hr		31,740
17. Actual Consumption Rate		52,400 cf/hr		31,740 or less
18. Fuel Heat Content (Btu/unit, LHV)		1,020 Btu/scf		600 Btu/cf
19. Sulfur Content wt%		2,000 grain/million cf		5,391 ppm H2S (max)
20. Ash Content wt%		N/A		N/A
STEAM DESCRIPTION AND SPECIFICATIONS				
21. Steam Heat Content	NA	NA		
22. Steam Temperature (°F)	N/A	N/A		
23. Steam Pressure (psi)	N/A	N/A		
24 Steam Type	N/A	N/A	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated
OPERATING LIMITS & SCHEDULE				
25. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.):		8760		
26. Operating Schedule (hours/day, months/year, etc.):		24 hours/day		
27. NSPS Applicability: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If Yes, which subpart:		



Please see instructions on page 2 before filling out the form.

IDENTIFICATION				
1. Company Name: J.R. Simplot Company		2. Facility Name: Caldwell Plant		3 Facility ID No: 027-00009
4. Brief Project Description:				
EXEMPTION				
Please see IDAPA 58.01.01.222 for a list of industrial boilers that are exempt from Permit to Construct requirements.				
BOILER (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS				
5. Type of Request: <input type="checkbox"/> New Unit <input type="checkbox"/> Unpermitted Existing Unit <input type="checkbox"/> Modification to a Unit with Permit #: For Tier 1 Renewal				
6. Use of Boiler: <input checked="" type="checkbox"/> % Used For Process <input type="checkbox"/> % Used For Space Heat <input type="checkbox"/> % Used For Generating Electricity <input type="checkbox"/> Other: 100				
7. Boiler ID Number: BOILER, S-C-B8		8. Rated Capacity: <input checked="" type="checkbox"/> 80.8 Million British Thermal Units Per Hour (MMBtu/hr) <input type="checkbox"/> 1,000 Pounds Steam Per Hour (1,000 lb steam/hr)		
9. Construction Date: 1966		10. Manufacturer: English Boiler & Tube Boiler	11. Model: D2561R, 83-D822S	
12. Date of Modification (if applicable):		13. Serial Number (if available):	14. Control Device (if any): Note: Attach applicable control equipment form(s)	
FUEL DESCRIPTION AND SPECIFICATIONS				
15. Fuel Type	<input type="checkbox"/> Diesel Fuel (#) (gal/hr)	<input checked="" type="checkbox"/> Natural Gas (cf/hr)	<input type="checkbox"/> Coal (unit: /hr)	<input type="checkbox"/> Other Fuels (unit: /hr)
16. Full Load Consumption Rate		79,216 cf/hr		
17. Actual Consumption Rate		Not Available		
18. Fuel Heat Content (Btu/unit, LHV)		1020 Btu/scf		
19. Sulfur Content wt%		2,000 grain/million cf		
20. Ash Content wt%		N/A		
STEAM DESCRIPTION AND SPECIFICATIONS				
21. Steam Heat Content	NA	NA		
22. Steam Temperature (°F)	N/A	N/A		
23. Steam Pressure (psi)	N/A	N/A		
24 Steam Type	N/A	N/A	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated	<input type="checkbox"/> Saturated <input type="checkbox"/> Superheated
OPERATING LIMITS & SCHEDULE				
25. Imposed Operating Limits (hours/year, or gallons fuel/year, etc.):		8760		
26. Operating Schedule (hours/day, months/year, etc.):		24 hours/day		
27. NSPS Applicability: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If Yes, which subpart:		

Completeness Determination Checklist and Application Index

Company Name J. R. Simplot Company
Location Caldwell, Idaho
Project Tier I Operating Permit Renewal Application
Reviewer _____ **Date** _____

The attached forms have been provided as a checklist and application index, to ensure all the required information has been included with the air pollution source permit application. These forms shall be submitted along with the application. These checklist/index forms include the following elements of the permit application:

- Application forms
- Source descriptions
- Source flow diagrams
- Plot plans
- Emission estimate references and documentation
- Excess emission documentation
- Ambient air impact analysis
- Compliance certification plan

Each page of the permit application shall be numbered so that each page can be referenced individually. This will allow these checklist forms to act as the permit application table of contents.

APPLICATION FORMS

SECTION	SOURCE	PAGE
1	Introduction	1
2	Process Description	3
3	Emission Sources and Estimates	5
4	Potentially Applicable Requirements	9
5	Compliance Certification	15
6	Compliance Plan and Schedule	16
Appendix A	Air Quality Operating Permit Application Forms and Checklist	A-1
Appendix B	DEQ Air Quality Operating Permit Application Section 1 and the Caldwell Facility's Compliance Certification	B-1
Appendix C	Facility Wide Emission Inventory	C-1
Appendix D	Simplot-Caldwell Facility's Insignificant Activities 1999 D-1	
Appendix E	DEQ Air Quality Operating Permit Application Section 2a, 2b, 3a, 3b	E-1
Appendix F	Compliance Assurance Monitoring Applicability Assessment	F-1
Appendix G	Potentially Applicable Regulations	G-1
Appendix H	Requirement-Specific Compliance Certification and Demonstration Methodology	H-1
Appendix I	Excess Emission Procedures	I-1

YES NO

- Is the application signed and dated? X _____

- Are all forms adequately completed? X _____

SOURCE DESCRIPTIONS

SOURCE	PAGE
General Facility Description	3-4
Emission Unit Description	5-8
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

	<u>YES</u>	<u>NO</u>
· Are the existing facilities described?	<u>X</u> _____	_____
· Are the modifications or new facilities described?	_____	<u>X</u> _____ Not Applicable
· Are all applicable processes, materials, ventilation, and controls described?	<u>X</u> _____	_____
· Is all equipment referenced by specific ID name or number?	<u>X</u> _____	_____

SOURCE FLOW DIAGRAMS

SOURCE	PAGE
Facility Plot Plan & Location Map	Figures 1 and 2
Facility Process Flow Diagrams	Figure 3
Facility Stack Locations	Figure 2
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

	<u>YES</u>	<u>NO</u>
· Are included?	<u>X</u> _____	_____
· Shows entire existing facility?	<u>X</u> _____	_____
· Shows entire future facility?	<u>X</u> ¹ _____	_____
· Shows each process separately (if needed)?	<u>X</u> _____	_____
· Details storage, roads, transfers, and processing?	<u>X</u> _____	_____
· Labeling is adequate (process and stacks identified, flow rates and process rates shown)?	<u>X</u> _____	_____

¹ For the purposes of this application the present facility is the future facility. Permits will be obtained when required.

PLOT PLANS

SOURCE	PAGE
DEQ General Information Form	Appendices A and B
Facility Plot Plan & Location Map	Figures 1 and 2
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

	<u>YES</u>	<u>NO</u>
· Are included?	<u>X</u> _____	_____
· Shows location coordinates?	<u>X</u> _____	_____
· Shows plant boundaries?	<u>X</u> _____	_____
· Shows neighboring ownership and facilities?	<u>X</u> _____	_____
· Shows topography?	<u>X</u> _____	_____
· Scale shown or distances adequately labeled?	<u>X</u> _____	_____
· Shows all buildings, equipment, storage and roads?	<u>X</u> _____	_____
· Are adequate for both existing and future or, includes both?	<u>X</u> _____	_____

EMISSION ESTIMATE REFERENCES AND DOCUMENTATION

SOURCE	PAGE
Production Data	Appendix E
Emission Factors	Appendix C and E
Emission Inventory	Appendix C
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

	<u>YES</u>	<u>NO</u>
· All fugitive and point sources listed?	<u>X</u> _____	_____
· All pollutants addressed?	<u>X</u> _____	_____
· Process documentation and specs included?	<u>X</u> _____	_____
· Control equipment documentation and specs included?	<u>X</u> _____	_____
· Emission factors documented and referenced?	<u>X</u> _____	_____
· Calculations and assumptions shown?	<u>X</u> _____	_____
· Source tests referenced (test includes processing and control device test conditions)?	<u>X</u> _____	_____

AMBIENT AIR IMPACT ANALYSIS

PROJECT	PAGE
Existing ambient air quality discussion including attainment status and classification of areas which may be significantly impacted	Not Applicable
Discussion of dispersion model used and assumptions	Not Applicable
Dispersion model input	Not Applicable
Dispersion model output	Not Applicable
Discussion of ambient impacts for each pollutant	Not Applicable
Discussion of how excessive impacts will be controlled or avoided for sources and pollutants with the potential for these	Not Applicable

COMPLIANCE CERTIFICATION PLAN

SOURCE	PAGE		
Specific Application Requirements and Compliance Certification	Appendix H		
Proposed Compliance Demonstration Methods	Appendix H		
Compliance Schedule	15		
_____	_____		
_____	_____		
_____	_____		
_____	_____		
		<u>YES</u>	<u>NO</u>
· Monitoring, record keeping, and reporting discussed?	<u>X</u> _____		_____
· Stack testing methods thoroughly documents?	<u>X</u> _____		_____
· Discussion and documentation of process control mechanisms used to meet emission limits?	<u>X</u> _____		_____
· Quality assurance/quality control discussed?	<u>X</u> _____		_____
· Monitoring equipment specs and documentation included?	NA		

Appendix B
DEQ Air Quality Operating Permit Application Section 1
and the Caldwell Facility's Compliance Certification

Compliance Certification

as established in IDAPA 58.01.01.314.01 and 314.09

Based upon information and belief, formed after reasonable inquiry, I certify the following:

1. The statements and information provided in this Tier I Operating Permit Renewal Application are true, accurate, and complete;
2. For each applicable requirement with which an emission unit is in compliance, I certify that the emissions unit will continue to comply with the applicable requirement;
3. For each applicable requirement that will become effective during the term of the Tier I operating permit that does not contain a more detailed schedule, I certify that the emissions unit will meet the applicable requirement on a timely basis;
4. For each applicable requirement that will become effective during the term of the Tier I operating permit that contains a more detailed schedule, I certify that the emissions unit will comply with the applicable requirement on the schedule provided in the applicable requirement;
5. For each applicable requirement with which the emission unit is not in compliance, I certify that the emission unit will be in compliance with the applicable requirement by the time the Tier I operating permit is issued, or that The J.R. Simplot Company has provided a compliance plan in accordance with Section 314.10.

The J.R. Simplot Company will submit annual compliance certifications during the term of the Tier I operating permit, unless more frequent certification is specified by an underlying applicable requirement or by the Department.

Responsible Corporate Official

Ron Wagstaff, Unit Director
J.R. Simplot Company

Date

Appendix C

Facility Wide Emission Inventory

Caldwell Plant Potential to Emit (TPY)	
Pollutant	Total Emissions
Criteria Air Pollutants	
PM10	127.4
NOx	89.4
SO ₂	90.6
CO	107.5
VOC	26.3
Total HAPs	
HAPs	2.1
Greenhouse Gas^(a)	
CO ₂	139,074
CH ₄	2.6
N ₂ O	0.3
CO ₂ e ^(b)	139,210
(a) Preliminary GHG emissions were calculated for Boilers 1 and 8, Dryers 1 and 6, AMUs, Biogas Flare, and WESP.	
(b) CO ₂ e were based on emissions of CO ₂ , CH ₄ , and N ₂ O and global warming potentials (GWPs) in 40CFR Part 98 Subpart A Table A-1.	

Caldwell Plant Potential to Emit (TPY)^(a)

	Boiler 8	Boiler 1 - NG Comb	Boiler 1 - Biogas & NG Comb ^(b)	Biogas Flare ^(b)	Dryer 1	Dryer 6	WESP ^(d)	AMUs	Solvent and Adhesive Use ^(e)	Total Emissions	Hazardous Air Pollutant?	Total HAP Emissions
Criteria Air Pollutants												
PM10	2.6	3.2	3.2	0.2	26.3	45.6	47.7	1.8	-	127.4	No	-
NOx	34.7	21.1	21.1	2.3	2.0	5.2	-	24.2	-	89.4	No	-
SO ₂ ^(b)	0.2	0.3	90.2 (90 tpy limit on biogas comb.)	0.01	0.06	-	-	0.1	-	90.6	No	-
CO	29.1	35.4	35.4	12.3	1.7	8.7	-	20.3	-	107.5	No	-
VOC	1.9	2.3	2.3	4.6	0.1	0.6	12.7	1.3	2.8	26.3	No	-
Toxic Air Pollutants												
3-Methylchloranthrene	6.2E-07	7.6E-07	7.6E-07	-	3.7E-08	1.9E-07	-	4.3E-07	-	2.0E-06	No	-
Ammonia	1.1E+00	1.4E+00	1.4E+00	-	6.5E-02	3.3E-01	-	-	-	2.9	No	-
Benzene	7.3E-04	8.9E-04	8.9E-04	-	4.3E-05	2.2E-04	-	5.1E-04	-	2.4E-03	Yes	2.4E-03
Benzo(a)pyrene	4.2E-07	5.1E-07	5.1E-07	-	2.4E-08	1.2E-07	-	2.9E-07	-	1.4E-06	No	-
Dichlorobenzene	4.2E-04	5.1E-04	5.1E-04	-	2.4E-05	1.2E-04	-	2.9E-04	-	1.4E-03	No	-
Formaldehyde	2.6E-02	3.2E-02	3.2E-02	-	1.5E-03	7.7E-03	-	1.8E-02	-	8.5E-02	Yes	8.5E-02
Hexane	6.2E-01	7.6E-01	7.6E-01	-	3.7E-02	1.9E-01	-	4.3E-01	-	2.0	Yes	2.0
Naphthalene	2.1E-04	2.6E-04	2.6E-04	-	1.2E-05	6.3E-05	-	1.5E-04	-	6.9E-04	Yes	6.9E-04
Pentane	9.0E-01	1.1E+00	1.1E+00	-	5.3E-02	2.7E-01	-	6.3E-01	-	2.9	No	-
Toluene	1.2E-03	1.4E-03	1.4E-03	-	6.9E-05	3.5E-04	-	8.2E-04	-	3.9E-03	Yes	3.9E-03
Arsenic	6.9E-05	8.4E-05	8.4E-05	-	4.1E-06	2.1E-05	-	4.8E-05	-	2.3E-04	Yes	2.3E-04
Barium	1.5E-03	1.9E-03	1.9E-03	-	9.0E-05	4.5E-04	-	1.1E-03	-	5.0E-03	No	-
Beryllium	4.2E-06	5.1E-06	5.1E-06	-	2.4E-07	1.2E-06	-	2.9E-06	-	1.4E-05	Yes	1.4E-05
Cadmium	3.8E-04	4.6E-04	4.6E-04	-	2.2E-05	1.1E-04	-	2.7E-04	-	1.2E-03	Yes	1.2E-03
Chromium-Total ^(c)	4.9E-04	5.9E-04	5.9E-04	-	2.9E-05	1.4E-04	-	3.4E-04	-	1.6E-03	Yes	1.6E-03
Chromium III	4.0E-04	4.8E-04	4.8E-04	-	2.3E-05	1.2E-04	-	2.8E-04	-	1.3E-03	-	-
Chromium VI	8.7E-05	4.0E-04	1.1E-04	-	5.1E-06	2.6E-05	-	6.1E-05	-	5.8E-04	-	-
Cobalt	2.9E-05	3.5E-05	3.5E-05	-	1.7E-06	8.7E-06	-	2.0E-05	-	9.5E-05	Yes	9.5E-05
Copper	2.9E-04	3.6E-04	3.6E-04	-	1.7E-05	8.8E-05	-	2.1E-04	-	9.6E-04	No	-
Manganese	1.3E-04	1.6E-04	1.6E-04	-	7.8E-06	3.9E-05	-	9.2E-05	-	4.3E-04	Yes	4.3E-04
Mercury	9.0E-05	1.1E-04	1.1E-04	-	5.3E-06	2.7E-05	-	6.3E-05	-	2.9E-04	Yes	2.9E-04
Molybdenum	3.8E-04	4.6E-04	4.6E-04	-	2.2E-05	1.1E-04	-	2.7E-04	-	1.2E-03	No	-
Nickel	7.3E-04	8.9E-04	8.9E-04	-	4.3E-05	2.2E-04	-	5.1E-04	-	2.4E-03	Yes	2.4E-03
Selenium	8.3E-06	1.0E-05	1.0E-05	-	4.9E-07	2.5E-06	-	5.8E-06	-	2.7E-05	Yes	2.7E-05
Zinc	1.0E-02	1.2E-02	1.2E-02	-	5.9E-04	3.0E-03	-	7.0E-03	-	3.3E-02	No	-
Nitrous Oxide	7.6E-01	9.3E-01	9.3E-01	-	4.5E-02	2.3E-01	-	5.3E-01	-	2.5	No	-
Polyaromatic Hydrocarbons (a subset of Toxic Air Pollutants)												
Benzo(a)anthracene	6.2E-07	7.6E-07	7.6E-07	-	3.7E-08	1.9E-07	-	4.3E-07	-	2.0E-06	No	-
Benzo(a)pyrene	4.2E-07	5.1E-07	5.1E-07	-	2.4E-08	1.2E-07	-	2.9E-07	-	1.4E-06	No	-
Benzo(b)fluoranthene	6.2E-07	7.6E-07	7.6E-07	-	3.7E-08	1.9E-07	-	4.3E-07	-	2.0E-06	No	-
Benzo(k)fluoranthene	6.2E-07	7.6E-07	7.6E-07	-	3.7E-08	1.9E-07	-	4.3E-07	-	2.0E-06	No	-
Chrysene	6.2E-07	7.6E-07	7.6E-07	-	3.7E-08	1.9E-07	-	4.3E-07	-	2.0E-06	No	-
Dibenzo(a,h)anthracene	4.2E-07	5.1E-07	5.1E-07	-	2.4E-08	1.2E-07	-	2.9E-07	-	1.4E-06	No	-
Indeno(1,2,3-cd)pyrene	6.2E-07	7.6E-07	7.6E-07	-	3.7E-08	1.9E-07	-	4.3E-07	-	2.0E-06	No	-
PAH Total	4.0E-06	4.8E-06	4.8E-06	-	2.3E-07	1.2E-06	-	2.8E-06	-	10.5	Total HAPs	2.1

Shaded values are emission limits established in prior permits.

(a) This summary table is intended for informational purposes only. The J.R. Simplot Company is not proposing annual emission limits. Annual emissions were based on 8760 hours of operation at the short-term emission rate, except for the annual SO₂ emissions from the biogas flare. A permit condition limits SO₂ emissions from the biogas flare to 90 TPY.

(b) As proposed in this PTC application, Boiler No.1 and the biogas flare will be capable of combusting biogas generated by the facility's anaerobic digester. Each source is capable of firing all generated biogas on an hourly and annual basis, or the biogas can be split between each source. Please note, biogas combustion emissions are limited to 90 tons SO₂/year. However Boiler No.1 can combust the maximum amount of biogas generated plus some additional natural gas, resulting in Boiler No.1 SO₂ PTE of 90.2 tons/yr (additional 0.2 tons/yr from natural gas combustion).

(c) AP-42 provides a chromium emission factor for natural gas fired external combustion, but does not include guidance for partitioning emissions between the carcinogenic chromium VI (hexavalent chromium) and the chromium III (trivalent chromium). In the EPA's Study of Hazardous Air Pollutant Emissions from Electric Utility Steam Generating Units - Final Report to Congress (EPA-453/R-98-004a), chromium emissions from natural gas-fired units are not included. However, data on speciation of chromium were available from 11 coal- and oil-fired test sites. From these limited data, EPA estimated that the average chromium VI from the coal-fired utilities was 11 percent, and the average from oil-fired utilities was 18 percent. We have conservatively assumed 18 percent of the chromium emissions are chromium VI.

(d) The PM10 emission estimates presented here are from all three fryers. However, as an emission limit this value applies only to the Line 1 fryer.

(e) Additional information regarding the emission calculations for these sources is included in the Caldwell facility's 1995 Tier I Operating Permit application.

BOILER 1 WITH BIOGAS BURNER

Total Boiler Heat Input Capacity	98.25	MMBtu/hr
Maximum Nat'l gas Fuel Usage*	0.096	MMscf/hr

*(based on 1020 Btu/scf) and
8,760 Permitted Hours of Operation/yr

With Addition of Maximum Biogas Combustion Capacity to the boiler:

	Short-term (hourly at peak)	Long-Term (annual maximum)
Fraction from Nat'l gas	80.62%	86.19%
scf biogas/averaging time	31,740	198,092,842
MMBtu/averaging time	19.0	118,856

Biogas parameters:
600 Btu/scf, HHV biogas
0.6 methane, fraction CH4 of biogas

Pollutant	Emission Factor (lb/MMBtu) ^(a)	Potential to Emit		Project Increase		Modeling De Minimus Thresholds ^(b)		Over Modeling Threshold?
		lb/hr	TPY	lb/hr	TPY	(lb/hr)	(TPY)	
NOx	0.049	4.8	21.1	0.00	0.00	--	1	No
CO	0.082	8.1	35.4	0.00	0.00	14	--	No
SO2 ^(c)	--	28.9	90.2	28.8	90	0.2	1	Yes
PM-10	0.0075	0.7	3.2	0.00	0.00	0.2	1	No
VOC	0.0054	0.5	2.3	0.00	0.00	--	--	No

Greenhouse Gas	Emission Factor ^(d) (lb/MMBtu)	Potential to Emit	
		lb/hr	TPY
CO2	117	11484	50302
CH4	2.20E-03	2.16E-01	9.47E-01
N2O	2.20E-04	2.16E-02	9.47E-02

Pollutant	CAS No.	Emission Factor (lb/MMBtu) ^(a)	lb/hr	lb/yr ^(h)
Arsenic	7440-38-2	2.0E-07	1.93E-05	1.69E-01
Barium	7440-39-3	4.3E-06	4.24E-04	3.71E+00
Benzene	71-43-2	2.1E-06	2.02E-04	1.77E+00
Beryllium	7440-41-7	1.2E-08	1.16E-06	1.01E-02
Cadmium	7440-43-9	1.1E-06	1.06E-04	9.28E-01
Chromium-Total ^(e)	7440-47-3	1.4E-06	1.35E-04	1.18E+00
Chromium III	7440-47-3	1.1E-06	1.11E-04	9.69E-01
Chromium VI	C7440-47-3	2.5E-07	2.43E-05	2.13E-01
Cobalt	7440-48-4	8.2E-08	8.09E-06	7.09E-02
Copper	7440-50-8	8.3E-07	8.19E-05	7.17E-01
Formaldehyde	50-00-0	7.4E-05	7.22E-03	6.33E+01
Hexane	110-54-3	1.8E-03	1.73E-01	1.52E+03
Manganese	7439-96-5	3.7E-07	3.66E-05	3.21E-01
Mercury	7439-97-6	2.5E-07	2.50E-05	2.19E-01
Molybdenum	7439-98-7	1.1E-06	1.06E-04	9.28E-01
Naphthalene	91-20-3	6.0E-07	5.88E-05	5.15E-01
Nickel	7440-02-0	2.1E-06	2.02E-04	1.77E+00
Pentane	109-66-0	2.5E-03	2.50E-01	2.19E+03
Selenium	7782-49-2	2.4E-08	2.31E-06	2.03E-02
Toluene	108-88-3	3.3E-06	3.28E-04	2.87E+00
Nitrous Oxide	10024-97-2	2.2E-03	2.12E-01	1.86E+03
Benz(a)anthracene	56-55-3	1.8E-09	1.73E-07	1.52E-03
Benzo(a)pyrene	50-32-8	1.2E-09	1.16E-07	1.01E-03
Benzo(b)fluoranthene	205-99-2	1.8E-09	1.73E-07	1.52E-03
Benzo(k)fluoranthene	207-08-9	1.8E-09	1.73E-07	1.52E-03
Chrysene	218-01-9	1.8E-09	1.73E-07	1.52E-03
Dibenzo(a,h)anthracene	53-70-3	1.2E-09	1.16E-07	1.01E-03
Indeno(1,2,3-cd)pyrene	193-39-5	1.8E-09	1.73E-07	1.52E-03
3-Methylchloranthrene	91-57-6	1.8E-09	1.73E-07	1.52E-03
Dichlorobenzene	23521-22-6	1.2E-06	1.16E-04	1.01E+00
Zinc	7440-66-6	2.8E-05	2.79E-03	2.45E+01
Ammonia ^(f)	7664-41-7	3.1E-03	3.08E-01	2.70E+03
PAH (total) ^(g)	-	-	1.10E-06	9.62E-03

(a) Emission Factors from AP-42 Section 1.4, Natural Gas Combustion, July 1998. Converted to lb/MMBtu using 1020 Btu/cf natural gas.
 (b) Modeling thresholds from Table 1 of the State of Idaho Air Quality Modeling Guideline (Doc. I D AQ-011 (rev. 1 12/31/02)).
 (c) SO2 emissions based on firing combination of biogas (1,514 lb/MMscf methane) and natural gas (0.6 lb/MMscf natural gas).
 (d) Emission factors for Greenhouse Gas emission from 40 CFR 98, Subpart C, Tables C-1 and C-2.
 (e) AP-42 provides a chromium emission factor for natural gas fired external combustion, but does not include guidance for partitioning emissions between the carcinogenic chromium VI (hexavalent chromium) and the chromium III (trivalent chromium). In the EPA's Study of Hazardous Air Pollutant Emissions from Electric Utility Steam Generating Units - Final Report to Congress (EPA-453/R-98-004a), chromium emissions from natural gas-fired units are not included. However, data on speciation of chromium were available from 11 coal- and oil-fired test sites. From these limited data, EPA estimated that the average chromium VI from the coal-fired utilities was 11 percent, and the average from oil-fired utilities was 18 percent. We have conservatively assumed 18 percent of the chromium emissions are chromium VI.
 (f) Ammonia emission factor from EPA's WebFIRE database (<http://cfpub.epa.gov/oarweb/index.cfm?action=fire.main>)
 (g) (Polycyclic Organic Matter) For emissions of PAH mixtures, the following PAHs and shall be considered together as one TAP, equivalent in potency to benzo(a)pyrene: benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, chrysene, indeno(1,2,3-cd)pyrene, benzo(a)pyrene. (WA)
 (h) Assume 8,760 hours of operation per year.

BOILER 8

Pollutant	Emission Factor (lb/MMscf) ^(a)	Potential to Emit	
		lb/hr	TPY
NOx	100.0	7.9	34.7
CO	84.0	6.7	29.1
SO2	0.6	0.05	0.2
PM-10	7.6	0.6	2.6
VOC	5.5	0.4	1.9

Heat Input Capacity	80.8	MMBtu/hr
Fuel Usage*	0.079	MMscf/hr
*(based on 1020 Btu/scf)		

Greenhouse Gas	Emission Factor ^(b) (lb/MMBtu)	Potential to Emit	
		lb/hr	TPY
CO2	117	9445	41368
CH4	2.20E-03	1.78E-01	7.79E-01
N2O	2.20E-04	1.78E-02	7.79E-02

Pollutant	Emission Factor (lb/MMscf) ^(a)	lb/hr	TPY
3-Methylchloranthrene	1.80E-06	1.43E-07	6.25E-07
Ammonia	3.20	0.25	1.11
Benzene	2.10E-03	1.66E-04	7.29E-04
Benzo(a)pyrene	1.20E-06	9.51E-08	4.16E-07
Dichlorobenzene	1.20E-03	9.51E-05	4.16E-04
Formaldehyde	7.50E-02	5.94E-03	2.60E-02
Hexane	1.8	1.43E-01	6.25E-01
Naphthalene	6.10E-04	4.83E-05	2.12E-04
Pentane	2.6	2.06E-01	9.02E-01
Toluene	3.40E-03	2.69E-04	1.18E-03
Arsenic	2.00E-04	1.58E-05	6.94E-05
Barium	4.40E-03	3.49E-04	1.53E-03
Beryllium	1.20E-05	9.51E-07	4.16E-06
Cadmium	1.10E-03	8.71E-05	3.82E-04
Chromium-Total ^(c)	1.40E-03	1.11E-04	4.86E-04
Chromium III	1.15E-03	9.09E-05	3.98E-04
Chromium VI	2.52E-04	2.00E-05	8.74E-05
Cobalt	8.40E-05	6.65E-06	2.91E-05
Copper	8.50E-04	6.73E-05	2.95E-04
Manganese	3.80E-04	3.01E-05	1.32E-04
Mercury	2.60E-04	2.06E-05	9.02E-05
Molybdenum	1.10E-03	8.71E-05	3.82E-04
Nickel	2.10E-03	1.66E-04	7.29E-04
Selenium	2.40E-05	1.90E-06	8.33E-06
Zinc	2.90E-02	2.30E-03	1.01E-02
Nitrous oxide	2.2	1.74E-01	7.63E-01

PAHs			
Pollutant	Emission Factor (lb/MMscf) ^(a)	lb/hr	TPY
Benz(a)anthracene	1.80E-06	1.43E-07	6.25E-07
Benzo(a)pyrene	1.20E-06	9.51E-08	4.16E-07
Benzo(b)fluoranthene	1.80E-06	1.43E-07	6.25E-07
Benzo(k)fluoranthene	1.80E-06	1.43E-07	6.25E-07
Chrysene	1.80E-06	1.43E-07	6.25E-07
Dibenzo(a,h)anthracene	1.20E-06	9.51E-08	4.16E-07
Indeno(1,2,3-cd)pyrene	1.80E-06	1.43E-07	6.25E-07
PAH Total		9.0E-07	4.0E-06

(a) Emission Factors from AP-42 Section 1.4, Natural Gas Combustion, July 1998.

(b) Emission factors for Greenhouse Gas emission from 40 CFR 98, Subpart C, Tables C-1 and C-2.

(c) AP-42 provides a chromium emission factor for natural gas fired external combustion, but does not include guidance for partitioning emissions between the carcinogenic chromium VI (hexavalent chromium) and the chromium III (trivalent chromium). In the EPA's Study of Hazardous Air Pollutant Emissions from Electric Utility Steam Generating Units – Final Report to Congress (EPA-453/R-98-004a), chromium emissions from natural gas-fired units are not included. However, data on speciation of chromium were available from 11 coal- and oil-fired test sites. From these limited data, EPA estimated that the average chromium VI from the coal-fired utilities was 11 percent, and the average from oil-fired utilities was 18 percent. We have conservatively assumed 18 percent of the chromium emissions are chromium VI.

DRYER 1

Pollutant	Emission Factor (lb/MMscf) ^(a)	Potential to Emit	
		lb/hr	TPY
NOx	100.0	0.5	2.0
CO	84.0	0.4	1.7
SO2	0.6	0.003	0.01
PM-10 ^(b)		6.0	26.3
VOC	5.5	0.03	0.1

Heat Input Capacity	4.75	MMBtu/hr
Fuel Usage*	0.005	MMscf/hr
*(based on 1020 Btu/scf)		

Greenhouse Gas	Emission Factor ^(c) (lb/MMBtu)	Potential to Emit	
		lb/hr	TPY
CO2	117	555	2432
CH4	2.20E-03	1.05E-02	4.58E-02
N2O	2.20E-04	1.05E-03	4.58E-03

Pollutant	Emission Factor (lb/MMscf) ^(a)	lb/hr	TPY
3-Methylchloranthrene	1.80E-06	8.38E-09	3.67E-08
Ammonia	3.20	0.01	0.07
Benzene	2.10E-03	9.78E-06	4.28E-05
Benzo(a)pyrene	1.20E-06	5.59E-09	2.45E-08
Dichlorobenzene	1.20E-03	5.59E-06	2.45E-05
Formaldehyde	7.50E-02	3.49E-04	1.53E-03
Hexane	1.8	8.38E-03	3.67E-02
Naphthalene	6.10E-04	2.84E-06	1.24E-05
Pentane	2.6	1.21E-02	5.30E-02
Toluene	3.40E-03	1.58E-05	6.94E-05
Arsenic	2.00E-04	9.31E-07	4.08E-06
Barium	4.40E-03	2.05E-05	8.97E-05
Beryllium	1.20E-05	5.59E-08	2.45E-07
Cadmium	1.10E-03	5.12E-06	2.24E-05
Chromium-Total ^(d)	1.40E-03	6.52E-06	2.86E-05
Chromium III	1.15E-03	5.35E-06	2.34E-05
Chromium VI	2.52E-04	1.17E-06	5.14E-06
Cobalt	8.40E-05	3.91E-07	1.71E-06
Copper	8.50E-04	3.96E-06	1.73E-05
Manganese	3.80E-04	1.77E-06	7.75E-06
Mercury	2.60E-04	1.21E-06	5.30E-06
Molybdenum	1.10E-03	5.12E-06	2.24E-05
Nickel	2.10E-03	9.78E-06	4.28E-05
Selenium	2.40E-05	1.12E-07	4.90E-07
Zinc	2.90E-02	1.35E-04	5.92E-04
Nitrous Oxide	2.2	0.01	4.49E-02

PAHs			
Pollutant	Emission Factor (lb/MMscf) ^(a)	lb/hr	TPY
Benz(a)anthracene	1.80E-06	8.38E-09	3.67E-08
Benzo(a)pyrene	1.20E-06	5.59E-09	2.45E-08
Benzo(b)fluoranthene	1.80E-06	8.38E-09	3.67E-08
Benzo(k)fluoranthene	1.80E-06	8.38E-09	3.67E-08
Chrysene	1.80E-06	8.38E-09	3.67E-08
Dibenzo(a,h)anthracene	1.20E-06	5.59E-09	2.45E-08
Indeno(1,2,3-cd)pyrene	1.80E-06	8.38E-09	3.67E-08
PAH Total		5.3E-08	2.3E-07

(a) Emission Factors from AP-42 Section 1.4, Natural Gas Combustion, July 1998.

(b) The hourly PM10 emission rate is not based upon AP-42 emission factors. It is based upon source-specific source test results.

(c) Emission factors for Greenhouse Gas emission from 40 CFR 98, Subpart C, Tables C-1 and C-2.

(d) AP-42 provides a chromium emission factor for natural gas fired external combustion, but does not include guidance for partitioning emissions between the carcinogenic chromium VI (hexavalent chromium) and the chromium III (trivalent chromium). In the EPA's Study of Hazardous Air Pollutant Emissions from Electric Utility Steam Generating Units – Final Report to Congress (EPA-453/R-98-004a), chromium emissions from natural gas-fired units are not included. However, data on speciation of chromium were available from 11 coal- and oil-fired test sites. From these limited data, EPA estimated that the average chromium VI from the coal-fired utilities was 11 percent, and the average from oil-fired utilities was 18 percent. We have conservatively assumed 18 percent of the chromium emissions are chromium VI.

DRYER 6

Pollutant	Emission Factor (lb/MMscf) ^(a)	Potential to Emit	
		lb/hr	TPY
NOx	50.0	1.2	5.2
CO	84.0	2.0	8.7
SO2	0.6	0.014	0.06
PM-10 ^(b)		10.4	45.6
VOC	5.5	0.1	0.6

Heat Input Capacity	24	MMBtu/hr
Fuel Usage* *(based on	0.024 1020	MMscf/hr Btu/scf)

Greenhouse Gas	Emission Factor ^(c) (lb/MMBtu)	Potential to Emit	
		lb/hr	TPY
CO2	117	2805	12287
CH4	2.20E-03	5.28E-02	2.31E-01
N2O	2.20E-04	5.28E-03	2.31E-02

Pollutant	Emission Factor (lb/MMscf) ^(a)	lb/hr	TPY
3-Methylchloranthrene	1.80E-06	4.24E-08	1.86E-07
Ammonia	3.20	0.08	0.33
Benzene	2.10E-03	4.94E-05	2.16E-04
Benzo(a)pyrene	1.20E-06	2.82E-08	1.24E-07
Dichlorobenzene	1.20E-03	2.82E-05	1.24E-04
Formaldehyde	7.50E-02	1.76E-03	7.73E-03
Hexane	1.8	4.24E-02	1.86E-01
Naphthalene	6.10E-04	1.44E-05	6.29E-05
Pentane	2.6	6.12E-02	2.68E-01
Toluene	3.40E-03	8.00E-05	3.50E-04
Arsenic	2.00E-04	4.71E-06	2.06E-05
Barium	4.40E-03	1.04E-04	4.53E-04
Beryllium	1.20E-05	2.82E-07	1.24E-06
Cadmium	1.10E-03	2.59E-05	1.13E-04
Chromium-Total ^(d)	1.40E-03	3.29E-05	1.44E-04
Chromium III	1.15E-03	2.70E-05	1.18E-04
Chromium VI	2.52E-04	5.93E-06	2.60E-05
Cobalt	8.40E-05	1.98E-06	8.66E-06
Copper	8.50E-04	2.00E-05	8.76E-05
Manganese	3.80E-04	8.94E-06	3.92E-05
Mercury	2.60E-04	6.12E-06	2.68E-05
Molybdenum	1.10E-03	2.59E-05	1.13E-04
Nickel	2.10E-03	4.94E-05	2.16E-04
Selenium	2.40E-05	5.65E-07	2.47E-06
Zinc	2.90E-02	6.82E-04	2.99E-03
Nitrous Oxide	2.2	0.05	2.27E-01

PAHs			
Pollutant	Emission Factor (lb/MMscf) ^(a)	lb/hr	TPY
Benz(a)anthracene	1.80E-06	4.24E-08	1.86E-07
Benzo(a)pyrene	1.20E-06	2.82E-08	1.24E-07
Benzo(b)fluoranthene	1.80E-06	4.24E-08	1.86E-07
Benzo(k)fluoranthene	1.80E-06	4.24E-08	1.86E-07
Chrysene	1.80E-06	4.24E-08	1.86E-07
Dibenzo(a,h)anthracene	1.20E-06	2.82E-08	1.24E-07
Indeno(1,2,3-cd)pyrene	1.80E-06	4.24E-08	1.86E-07
PAH Total		2.7E-07	1.2E-06

(a) Emission Factors from AP-42 Section 1.4, Natural Gas Combustion, July 1998.

(b) The hourly PM10 emission rate is not based upon AP-42 emission factors. It is based upon source-specific source test results.

(c) Emission factors for Greenhouse Gas emission from 40 CFR 98, Subpart C, Tables C-1 and C-2.

(d) AP-42 provides a chromium emission factor for natural gas fired external combustion, but does not include guidance for partitioning emissions between the carcinogenic chromium VI (hexavalent chromium) and the chromium III (trivalent chromium). In the EPA's Study of Hazardous Air Pollutant Emissions from Electric Utility Steam Generating Units - Final Report to Congress (EPA-453/R-98-004a), chromium emissions from natural gas-fired units are not included. However, data on speciation of chromium were available from 11 coal- and oil-fired test sites. From these limited data, EPA estimated that the average chromium VI from the coal-fired utilities was 11 percent, and the average from oil-fired utilities was 18 percent. We have conservatively assumed 18 percent of the chromium emissions are chromium VI.

AIR MAKEUP UNITS

Pollutant	Emission Factor (lb/MMscf) ^(a)	Potential to Emit	
		lb/hr	TPY
NOx	100.0	5.5	24.17
CO	84.0	4.6	20.30
SO2	0.6	0.03	0.14
PM-10	7.6	0.42	1.84
VOC	5.5	0.30	1.33

Heat Input	56.3	MMBtu/hr
Capacity		
Fuel Usage*	0.055	MMscf/hr
*(based on 1020 Btu/scf)		

Greenhouse Gas	Emission Factor ^(b) (lb/MMBtu)	Potential to Emit	
		lb/hr	TPY
CO2	117	6578	28812
CH4	2.20E-03	1.24E-01	5.42E-01
N2O	2.20E-04	1.24E-02	5.42E-02

Pollutant	Emission Factor (lb/MMscf) ^(a)	lb/hr	TPY
3-Methylchloranthrene	1.80E-06	9.93E-08	4.35E-07
Ammonia	3.20	0.18	0.77
Benzene	2.10E-03	1.16E-04	5.07E-04
Benzo(a)pyrene	1.20E-06	6.62E-08	2.90E-07
Dichlorobenzene	1.20E-03	6.62E-05	2.90E-04
Formaldehyde	7.50E-02	4.14E-03	1.81E-02
Hexane	1.8	9.93E-02	4.35E-01
Naphthalene	6.10E-04	3.37E-05	1.47E-04
Pentane	2.6	1.43E-01	6.28E-01
Toluene	3.40E-03	1.88E-04	8.22E-04
Arsenic	2.00E-04	1.10E-05	4.83E-05
Barium	4.40E-03	2.43E-04	1.06E-03
Beryllium	1.20E-05	6.62E-07	2.90E-06
Cadmium	1.10E-03	6.07E-05	2.66E-04
Chromium-Total ^(c)	1.40E-03	7.72E-05	3.38E-04
Chromium III	1.15E-03	6.33E-05	2.77E-04
Chromium VI	2.52E-04	1.39E-05	6.09E-05
Cobalt	8.40E-05	4.63E-06	2.03E-05
Copper	8.50E-04	4.69E-05	2.05E-04
Manganese	3.80E-04	2.10E-05	9.18E-05
Mercury	2.60E-04	1.43E-05	6.28E-05
Molybdenum	1.10E-03	6.07E-05	2.66E-04
Nickel	2.10E-03	1.16E-04	5.07E-04
Selenium	2.40E-05	1.32E-06	5.80E-06
Zinc	2.90E-02	1.60E-03	7.01E-03
Nitrous oxide	2.2	1.21E-01	5.32E-01

PAHs			
Pollutant	Emission Factor (lb/MMscf) ^(a)	lb/hr	TPY
Benzo(a)anthracene	1.80E-06	9.93E-08	4.35E-07
Benzo(a)pyrene	1.20E-06	6.62E-08	2.90E-07
Benzo(b)fluoranthene	1.80E-06	9.93E-08	4.35E-07
Benzo(k)fluoranthene	1.80E-06	9.93E-08	4.35E-07
Chrysene	1.80E-06	9.93E-08	4.35E-07
Dibenzo(a,h)anthracene	1.20E-06	6.62E-08	2.90E-07
Indeno(1,2,3-cd)pyrene	1.80E-06	9.93E-08	4.35E-07
PAH Total		6.28956E-07	2.75E-06

AMU	Heat Input Capacity (MMBtu/hr)
AMU Heater S-C-H4	5.4
AMU Heater S-C-H5	10.125
AMU Heater S-C-H6	5.5
AMU Heater S-C-H7	5.55
AMU Heater S-C-H8	5.4
AMU Heater S-C-H9	5.4
AMU Heater S-C-H10	5.4
AMU Heater S-C-H11	5.5
AMU Heater S-C-H12	8.0
Total Input Capacity	56.3

(a) Emission Factors from AP-42 Section 1.4, Natural Gas Combustion, July 1998.
 (b) Emission factors for Greenhouse Gas emission from 40 CFR 98, Subpart C, Tables C-1 and C-2.
 (c) AP-42 provides a chromium emission factor for natural gas fired external combustion, but does not include guidance for partitioning emissions between the carcinogenic chromium VI (hexavalent chromium) and the chromium III (trivalent chromium). In the EPA's Study of Hazardous Air Pollutant Emissions from Electric Utility Steam Generating Units – Final Report to Congress (EPA-453/R-98-004a), chromium emissions from natural gas-fired units are not included. However, data on speciation of chromium were available from 11 coal- and oil-fired test sites. From these limited data, EPA estimated that the average chromium VI from the coal-fired utilities was 11 percent, and the average from oil-fired utilities was 18 percent. We have conservatively assumed 18 percent of the chromium emissions are chromium VI.

BIOGAS FLARE

Pollutant	Emission Factor (lb/MMscf) ^(a)	Emission Factor (lb/MMBtu) ^(b)	Potential to Emit	
			lb/hr	TPY
NOx	-	0.068	0.5	2.3
CO	-	0.37	2.8	12.3
SO ₂ ^(c)	-	-	--	90.0
PM-10	4.5	-	0.1	0.2
VOC	-	0.14	1.1	4.6

Biogas Flow Rate	0.01261	MMscf/hr
Biogas Heat Content	600	btu/scf
Flare Heat Capacity	7.6	MMbtu/hr

Greenhouse Gas	Emission Factor ^(d) (lb/MMBtu)	Potential to Emit	
		lb/hr	TPY
CO ₂	117	884	3874
CH ₄	2.20E-03	1.66E-02	7.29E-02
N ₂ O	2.20E-04	1.66E-03	7.29E-03

(a) Emission Factors from AP-42 Section 1.4, Natural Gas Combustion, July 1998, except the emission factors were scaled down to represent the lower heat value (600 btu/scf) of the biogas.

(b) Emission factors from AP-42 Section 13.5, Industrial Flares, September 1991. This Section contained emission factors for only Nox, CO and VOCs.

(c) The SO₂ annual emission limit was based upon the PTC for the Biogas Flare.

(d) Emission factors for Greenhouse Gas emission from 40 CFR 98, Subpart C, Tables C-1 and C-2.

WET ELECTROSTATIC PRECIPITATOR (WESP)

Pollutant	Potential to Emit	
	lb/hr	TPY
PM-10	10.9	47.7
VOC	2.9	12.7

(a) The hourly PM10 and VOC emission rates are based on the Line 1 Fryer's emission limits.

(b) This table presents the estimated emissions from the WESP for all three fryers. However, as an emission limit these values apply only to the Line 1 fryer.

Appendix D

Simplot – Caldwell Facility’s Insignificant Activities

Insignificant Activities

The following table identifies the insignificant activities, as defined in IDAPA 58.01.01.317.01.a and 317.01.b, that occur at the Simplot-Caldwell facility.

Citation	Activity
IDAPA 58.01.01.317.01.a.i. (6)	Storage of solid material, dust-free handling. At the Caldwell facility, this is cardboard and packaging materials.
IDAPA 58.01.01.317.01.a.i. (9)	Fugitives associated with the fryer emission units.
IDAPA 58.01.01.317.01.a.i. (29)	Agricultural activities
IDAPA 58.01.01.317.01.a.i. (32)	Hot melt adhesive is used that contains no VOCs.
IDAPA 58.01.01.317.01.a.i. (109)	Process wastewater and ponds.
IDAPA 58.01.01.317.01.b.i. (1)	There are various storage tanks and vessels with less than 260-gallon capacities with appropriate closures that are used in operations, loading and unloading.
IDAPA 58.01.01.317.01.b.i. (2)	There are various storage tanks and vessels with less than 1,100-gallon capacities with appropriate closures and not for use with hazardous air pollutants that are used in operations, loading and unloading.
IDAPA 58.01.01.317.01.b.i. (3)	The facility's unleaded gasoline storage tank (5,000 gallons).
IDAPA 58.01.01.317.01.b.i. (4)	Propane storage tank has a capacity of 5,000 gallons.
IDAPA 58.01.01.317.01.b.i. (5)	There are various natural gas fired Air Makeup Units (AMUs) throughout the facility that are rated under 5,000,000 btu/hr.
IDAPA 58.01.01.317.01.b.i. (6)	Various combustion sources rated less than 5 MMBtu/hr, containing less than 0.4% by weight sulfur for coal or less than 1% by weight for other fuels.
IDAPA 58.01.01.317.01.b.i. (7)	There are various diesel fired emergency generators throughout the facility that are rated under 1,000,000 btu/hr.
IDAPA 58.01.01.317.01.b.i. (9)	Welding is done in small amounts at the facility, however it does not result in usage of more than 1 ton of welding rod per day.
IDAPA 58.01.01.317.01.b.i. (12)	Less than 2 gallons per day of ink is used to print on packaging.
IDAPA 58.01.01.317.01.b.i. (13)	There are various water cooling tower systems that are non-process-contact coolers and not greater than 10,000 gallons per minute that are used to cool process liquids at the Caldwell facility.
IDAPA 58.01.01.317.01.b.i. (16)	Less than 20,000,000 gallons per day of water is chlorinated at the facility.
IDAPA 58.01.01.317.01.b.i. (18)	There are various natural gas fired Air Makeup Units (space heaters) throughout the facility that are rated under 5,000,000 btu/hr.
IDAPA 58.01.01.317.01.b.i. (19)	Several tanks of inorganic salts, bases, and acids are present at the Caldwell facility.

Citation	Activity
	They include, but are not limited to the following: sodium hydroxide, magnesium hydroxide, and 94% purity sulfuric acid.
IDAPA 58.01.01.317.01.b.i. (20)	Equipment is used to exclusively pump, load, unload, and store vegetable oil at the Caldwell facility. The oil has an approximate initial boiling range above 150° C.
IDAPA 58.01.01.317.01.b.i. (26)	Cleaning and stripping maintenance activities use solution with less than 1% VOCs by weight at this facility.
IDAPA 58.01.01.317.01.b.i. (27)	Water based lubricants for metalworking are present at the Caldwell facility. The lubricants have an organic content of less than ten percent.
IDAPA 58.01.01.317.01.b.i. (30)	Heaters S-C-H4, S-C-H6, S-C-H7, S-C-H8, S-C-H9, S-C-H10, S-C-H11, and S-C-H12.

Appendix E
DEQ Air Quality Operating Permit Application
Sections 2a, 2b, 3a, and 3b

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	BOILER, S-C-B1				
STACK DESCRIPTION	VERTICAL, UNCOVERED				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	English Boiler & Tube Boiler	MODEL	80DD325	DATE INSTALLED	2010
				DATE LAST MODIFIED	N/A

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	98.25	1000 LBS STEAM/HR	-	KILOWATTS	-	HORSEPOWER	-
BURNER TYPE	9	% USED FOR PROCESS	100				
		% USED FOR SPACE HEAT	0				

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	1		N/A	
PERCENT SULFUR	trace		N/A	
PERCENT ASH	0		N/A	
PERCENT NITROGEN	1		N/A	
PERCENT CARBON	75		N/A	
PERCENT HYDROGEN	23		N/A	
PERCENT MOISTURE	0		N/A	
HEAT CONTENT (BTU/UNIT)	1020	Btu/scf	N/A	N/A
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	96.3	Mcf/hr	N/A	N/A
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	843.8	MMcf/yr	N/A	N/A

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	2335
UTM X COORDINATE (KM)	521.705
UTM Y COORDINATE (KM)	4834.731
STACK TYPE (SEE NOTE BELOW)	2
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	46.6
STACK EXIT DIAMETER (FT)	4.0
STACK EXIT GAS FLOWRATE (ACFM)	17,130
STACK EXIT TEMPERATURE (DEG. F)	368.8

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.7			
SO2		0.6		0.06			
CO		84		8.2			
NOX		50		4.9			
VOC		5.5		0.5			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="BOILER, S-C-B8"/>				
STACK DESCRIPTION	<input type="text" value="VERTICAL, UNCOVERED"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="INDUSTRIAL STEAM"/>	MODEL	<input type="text" value="D2561R, 83-D822S"/>	DATE INSTALLED	<input type="text" value="1966"/>
				DATE LAST MODIFIED	<input type="text" value="NA"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="80.8"/>	1000 LBS STEAM/HR	<input type="text" value=""/>	KILOWATTS	<input type="text" value=""/>	HORSEPOWER	<input type="text" value=""/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="100"/>	% USED FOR SPACE HEAT	<input type="text" value="0"/>		

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="79.2"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="693.9"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	2335
UTM X COORDINATE (KM)	521.705
UTM Y COORDINATE (KM)	4834.725
STACK TYPE (SEE NOTE BELOW)	2
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	44.8
STACK EXIT DIAMETER (FT)	4.0
STACK EXIT GAS FLOWRATE (ACFM)	15,000
STACK EXIT TEMPERATURE (DEG. F)	325

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.6			
SO2		0.6		0.05			
CO		84		6.7			
NOX		100		7.9			
VOC		5.5		0.4			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	DRYER, S-C-D1				
STACK DESCRIPTION	2 STACKS, VERTICAL, UNCOVERED				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	MAXON	MODEL	OVENPAK 425 and APX	DATE INSTALLED	1995
				DATE LAST MODIFIED	NA

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="4.75"/>	1000 LBS STEAM/HR	<input type="text" value=""/>	KILOWATTS	<input type="text" value=""/>	HORSEPOWER	<input type="text" value=""/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="100"/>				
		% USED FOR SPACE HEAT	<input type="text" value="0"/>				

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="4.7"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="40.8"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	2335
UTM X COORDINATE (KM)	A) 521.696 B) 521.700
UTM Y COORDINATE (KM)	A) 4834.751 B) 4834.751
STACK TYPE (SEE NOTE BELOW)	2
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	A) 64.8 B) 64.8
STACK EXIT DIAMETER (FT)	A) 2.1 B) 2.3
STACK EXIT GAS FLOWRATE (ACFM)	A) 9,227 B) 9,121
STACK EXIT TEMPERATURE (DEG. F)	A) 98.5 B) 95.2

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		0.652 lb/M lb Production		6.0			
SO2		0.6		0.003			
CO		84		0.4			
NOX		100		0.5			
VOC		5.5		0.03			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="DRYER, S-C-D6"/>				
STACK DESCRIPTION	<input type="text" value="VERTICAL, UNCOVERED"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="PROCTOR & SCHWARTZ"/>	MODEL	<input type="text" value="K21187"/>	DATE INSTALLED	<input type="text" value="1968"/>
				DATE LAST MODIFIED	<input type="text" value="NA"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="24"/>	1000 LBS STEAM/HR	<input type="text" value=""/>	KILOWATTS	<input type="text" value=""/>	HORSEPOWER	<input type="text" value=""/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="100"/>				
		% USED FOR SPACE HEAT	<input type="text" value="0"/>				

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="23.5"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="206.1"/>	<input type="text" value="MMcf/yR"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	2335
UTM X COORDINATE (KM)	A) 521.694 B) 521.697 C) 521.703 D) 521.706
UTM Y COORDINATE (KM)	ALL: 4834.743
STACK TYPE (SEE NOTE BELOW)	2
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	ALL: 69
STACK EXIT DIAMETER (FT)	ALL: 2.33
STACK EXIT GAS FLOWRATE (ACFM)	ALL: 15,000
STACK EXIT TEMPERATURE (DEG. F)	ALL: 130

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		0.308 lb/M lb Production		10.4			
SO2		0.6		0.01			
CO		84		2.0			
NOX		50		1.2			
VOC		5.5		0.13			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="HEATER, S-C-H4"/>				
STACK DESCRIPTION	<input type="text" value="N/A"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="DRAVO"/>	MODEL	<input type="text" value="L-234, L-4651"/>	DATE INSTALLED	<input type="text" value="N/A"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="5.4"/>	1000 LBS STEAM/HR	<input type="text"/>	KILOWATTS	<input type="text"/>	HORSEPOWER	<input type="text"/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="0"/>	% USED FOR SPACE HEAT	<input type="text" value="100"/>		

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="5.3"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="46.4"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	50
MAR-MAY	16
JUN-AUG	
SEP-NOV	34

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	26

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	N/A
UTM X COORDINATE (KM)	N/A
UTM Y COORDINATE (KM)	N/A
STACK TYPE (SEE NOTE BELOW)	N/A
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	N/A

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.04			
SO2		0.6		0.003			
CO		84		0.44			
NOX		100		0.53			
VOC		5.5		0.03			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="HEATER, S-C-H5"/>				
STACK DESCRIPTION	<input type="text" value="N/A"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="HARTZELL"/>	MODEL	<input type="text" value="185A03, 10236"/>	DATE INSTALLED	<input type="text" value="1991"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="10.125"/>	1000 LBS STEAM/HR	<input type="text" value=""/>	KILOWATTS	<input type="text" value=""/>	HORSEPOWER	<input type="text" value=""/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="0"/>				
		% USED FOR SPACE HEAT	<input type="text" value="100"/>				

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="9.9"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="87.0"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	50
MAR-MAY	16
JUN-AUG	
SEP-NOV	34

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	26

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	N/A
UTM X COORDINATE (KM)	N/A
UTM Y COORDINATE (KM)	N/A
STACK TYPE (SEE NOTE BELOW)	N/A
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	N/A

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.08			
SO2		0.6		0.01			
CO		84		0.83			
NOX		100		0.99			
VOC		5.5		0.05			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="HEATER, S-C-H6"/>				
STACK DESCRIPTION	<input type="text" value="N/A"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="RAPID ENGINEERING"/>	MODEL	<input type="text" value="SR 54, 170260"/>	DATE INSTALLED	<input type="text" value="PRE 1978"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="5.5"/>	1000 LBS STEAM/HR	<input type="text"/>	KILOWATTS	<input type="text"/>	HORSEPOWER	<input type="text"/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="0"/>	% USED FOR SPACE HEAT	<input type="text" value="100"/>		

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="5.4"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="47.2"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	50
MAR-MAY	16
JUN-AUG	
SEP-NOV	34

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	26

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	N/A
UTM X COORDINATE (KM)	N/A
UTM Y COORDINATE (KM)	N/A
STACK TYPE (SEE NOTE BELOW)	N/A
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	N/A

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.04			
SO2		0.6		0.003			
CO		84		0.45			
NOX		100		0.54			
VOC		5.5		0.030			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="HEATER, S-C-H7"/>				
STACK DESCRIPTION	<input type="text" value="N/A"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="RAPID ENGINEERING"/>	MODEL	<input type="text" value="SR 54, 170261"/>	DATE INSTALLED	<input type="text" value="PRE 1978"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="5.55"/>	1000 LBS STEAM/HR	<input type="text"/>	KILOWATTS	<input type="text"/>	HORSEPOWER	<input type="text"/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="0"/>	% USED FOR SPACE HEAT	<input type="text" value="100"/>		

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="5.4"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="47.7"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	50
MAR-MAY	16
JUN-AUG	
SEP-NOV	34

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	26

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	N/A
UTM X COORDINATE (KM)	N/A
UTM Y COORDINATE (KM)	N/A
STACK TYPE (SEE NOTE BELOW)	N/A
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	N/A

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.04			
SO2		0.6		0.003			
CO		84		0.46			
NOX		100		0.54			
VOC		5.5		0.03			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="HEATER, S-C-H8"/>				
STACK DESCRIPTION	<input type="text" value="N/A"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="DRAVO"/>	MODEL	<input type="text" value="L236, L-4654"/>	DATE INSTALLED	<input type="text" value="PRE 1978"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="5.4"/>	1000 LBS STEAM/HR	<input type="text"/>	KILOWATTS	<input type="text"/>	HORSEPOWER	<input type="text"/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="0"/>	% USED FOR SPACE HEAT	<input type="text" value="100"/>		

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="5.3"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="46.4"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	50
MAR-MAY	16
JUN-AUG	
SEP-NOV	34

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	26

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	N/A
UTM X COORDINATE (KM)	N/A
UTM Y COORDINATE (KM)	N/A
STACK TYPE (SEE NOTE BELOW)	N/A
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	N/A

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.04			
SO2		0.6		0.003			
CO		84		0.44			
NOX		100		0.53			
VOC		5.5		0.03			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="HEATER, S-C-H9"/>				
STACK DESCRIPTION	<input type="text" value="N/A"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="DRAVO"/>	MODEL	<input type="text" value="L236"/>	DATE INSTALLED	<input type="text" value="PRE 1978"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="5.4"/>	1000 LBS STEAM/HR	<input type="text" value=""/>	KILOWATTS	<input type="text" value=""/>	HORSEPOWER	<input type="text" value=""/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="0"/>				
		% USED FOR SPACE HEAT	<input type="text" value="100"/>				

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="5.3"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="46.4"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	50
MAR-MAY	16
JUN-AUG	
SEP-NOV	34

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	26

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	N/A
UTM X COORDINATE (KM)	N/A
UTM Y COORDINATE (KM)	N/A
STACK TYPE (SEE NOTE BELOW)	N/A
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	N/A

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.04			
SO2		0.6		0.003			
CO		84		0.44			
NOX		100		0.53			
VOC		5.5		0.03			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="HEATER, S-C-H10"/>				
STACK DESCRIPTION	<input type="text" value="N/A"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="DRAVO"/>	MODEL	<input type="text" value="L236, L-4804"/>	DATE INSTALLED	<input type="text" value="PRE 1978"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="5.4"/>	1000 LBS STEAM/HR	<input type="text" value="-"/>	KILOWATTS	<input type="text" value="-"/>	HORSEPOWER	<input type="text" value="-"/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="0"/>				
		% USED FOR SPACE HEAT	<input type="text" value="100"/>				

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="5.3"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="46.4"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;
 05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);
 07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;
 11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL
 06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;
 10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL
 14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	50
MAR-MAY	16
JUN-AUG	
SEP-NOV	34

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	26

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	N/A
UTM X COORDINATE (KM)	N/A
UTM Y COORDINATE (KM)	N/A
STACK TYPE (SEE NOTE BELOW)	N/A
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	N/A

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.04			
SO2		0.6		0.003			
CO		84		0.44			
NOX		100		0.53			
VOC		5.5		0.03			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="HEATER, S-C-H11"/>				
STACK DESCRIPTION	<input type="text" value="N/A"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="REY INDUSTRIES"/>	MODEL	<input type="text" value="500"/>	DATE INSTALLED	<input type="text" value="1995"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="5.5"/>	1000 LBS STEAM/HR	<input type="text" value="-"/>	KILOWATTS	<input type="text" value="-"/>	HORSEPOWER	<input type="text" value="-"/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="0"/>				
		% USED FOR SPACE HEAT	<input type="text" value="100"/>				

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="5.4"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="47.2"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	50
MAR-MAY	16
JUN-AUG	
SEP-NOV	34

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	26

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	N/A
UTM X COORDINATE (KM)	N/A
UTM Y COORDINATE (KM)	N/A
STACK TYPE (SEE NOTE BELOW)	N/A
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	N/A

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.04			
SO2		0.6		0.003			
CO		84		0.45			
NOX		100		0.54			
VOC		5.5		0.03			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 2: FUEL BURNING EQUIPMENT

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="HEATER, S-C-H12"/>				
STACK DESCRIPTION	<input type="text" value="N/A"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="REY INDUSTRIES"/>	MODEL	<input type="text" value="REYCO 800AMU"/>	DATE INSTALLED	<input type="text" value="2001"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	<input type="text" value="8"/>	1000 LBS STEAM/HR	<input type="text" value="-"/>	KILOWATTS	<input type="text" value="-"/>	HORSEPOWER	<input type="text" value="-"/>
BURNER TYPE	<input type="text" value="9"/>	% USED FOR PROCESS	<input type="text" value="0"/>				
		% USED FOR SPACE HEAT	<input type="text" value="100"/>				

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL	UNITS
FUEL CODE (SEE NOTE)	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT SULFUR	<input type="text" value="trace"/>		<input type="text" value="N/A"/>	
PERCENT ASH	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
PERCENT NITROGEN	<input type="text" value="1"/>		<input type="text" value="N/A"/>	
PERCENT CARBON	<input type="text" value="75"/>		<input type="text" value="N/A"/>	
PERCENT HYDROGEN	<input type="text" value="23"/>		<input type="text" value="N/A"/>	
PERCENT MOISTURE	<input type="text" value="0"/>		<input type="text" value="N/A"/>	
HEAT CONTENT (BTU/UNIT)	<input type="text" value="1020"/>	<input type="text" value="Btu/scf"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	<input type="text" value="7.8"/>	<input type="text" value="Mcf/hr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	<input type="text" value="68.7"/>	<input type="text" value="MMcf/yr"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

NOTE: BURNER TYPE - 01) SPREAD STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE;

05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL);

07) UNDERFEED STOKERS; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED;

11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL

06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST;

10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL

14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	50
MAR-MAY	16
JUN-AUG	
SEP-NOV	34

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	26

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	N/A	N/A
TYPE CODE (FROM APP. A)	N/A	N/A
MANUFACTURER	N/A	N/A
MODEL NUMBER	N/A	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	N/A
UTM X COORDINATE (KM)	N/A
UTM Y COORDINATE (KM)	N/A
STACK TYPE (SEE NOTE BELOW)	N/A
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	N/A

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		7.6		0.06			
SO2		0.6		0.005			
CO		84		0.66			
NOX		100		0.78			
VOC		5.5		0.04			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 3: PROCESS AND MANUFACTURING OPERATIONS

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="FRYER, S-C-F1"/>				
STACK DESCRIPTION	<input type="text" value="VERTICAL, UNCOVERED"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="GEM EQUIPMENT"/>	MODEL	<input type="text" value="N/A"/>	DATE INSTALLED	<input type="text" value="1998"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

PROCESSING DATA

PROCESS STREAM	MATERIAL DESCRIPTION	MAXIMUM HOURLY RATE	ACTUAL HOURLY RATE	UNITS
INPUT	<input type="text" value="SLICED POTATOES"/>	<input type="text" value="9.7"/>	<input type="text" value="9.7"/>	<input type="text" value="Mlb/hr"/>
PRODUCT OUTPUT	<input type="text" value="FRENCH FRIES"/>	<input type="text" value="9.2"/>	<input type="text" value="9.2"/>	<input type="text" value="Mlb/hr"/>
WASTE OUTPUT	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
RECYCLE	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

POTENTIAL HAPS IN PROCESS STREAM(S)

HAP DESCRIPTION	HAP CAS NUMBER	FRACTION IN INPUT STREAM BY WEIGHT	FRACTION IN PRODUCT STREAM BY WEIGHT	FRACTION IN WASTE STREAM BY WEIGHT	FRACTION IN RECYCLE STREAM BY WEIGHT
<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

SECTION 3: PROCESS AND MANUFACTURING OPERATIONS

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="FRYER, S-C-F4"/>				
STACK DESCRIPTION	<input type="text" value="VERTICAL, UNCOVERED"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="J.R. SIMPLOT COMPANY"/>	MODEL	<input type="text" value="N/A"/>	DATE INSTALLED	<input type="text" value="1970/1971"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

PROCESSING DATA

PROCESS STREAM	MATERIAL DESCRIPTION	MAXIMUM HOURLY RATE	ACTUAL HOURLY RATE	UNITS
INPUT	<input type="text" value="SLICED POTATOES"/>	<input type="text" value="34.8"/>	<input type="text" value="34.8"/>	<input type="text" value="Mlb/hr"/>
PRODUCT OUTPUT	<input type="text" value="FRENCH FRIES"/>	<input type="text" value="32.5"/>	<input type="text" value="32.5"/>	<input type="text" value="Mlb/hr"/>
WASTE OUTPUT	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
RECYCLE	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

POTENTIAL HAPS IN PROCESS STREAM(S)

HAP DESCRIPTION	HAP CAS NUMBER	FRACTION IN INPUT STREAM BY WEIGHT	FRACTION IN PRODUCT STREAM BY WEIGHT	FRACTION IN WASTE STREAM BY WEIGHT	FRACTION IN RECYCLE STREAM BY WEIGHT
<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

SECTION 3: PROCESS AND MANUFACTURING OPERATIONS

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="FRYER, S-C-F6"/>				
STACK DESCRIPTION	<input type="text" value="VERTICAL, UNCOVERED"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="J.R. SIMPLOT COMPANY"/>	MODEL	<input type="text" value="N/A"/>	DATE INSTALLED	<input type="text" value="1970/1971"/>
				DATE LAST MODIFIED	<input type="text" value="N/A"/>

PROCESSING DATA

PROCESS STREAM	MATERIAL DESCRIPTION	MAXIMUM HOURLY RATE	ACTUAL HOURLY RATE	UNITS
INPUT	<input type="text" value="SLICED POTATOES"/>	<input type="text" value="37.1"/>	<input type="text" value="37.1"/>	<input type="text" value="Mlb/hr"/>
PRODUCT OUTPUT	<input type="text" value="FRENCH FRIES"/>	<input type="text" value="33.8"/>	<input type="text" value="33.8"/>	<input type="text" value="Mlb/hr"/>
WASTE OUTPUT	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
RECYCLE	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

POTENTIAL HAPS IN PROCESS STREAM(S)

HAP DESCRIPTION	HAP CAS NUMBER	FRACTION IN INPUT STREAM BY WEIGHT	FRACTION IN PRODUCT STREAM BY WEIGHT	FRACTION IN WASTE STREAM BY WEIGHT	FRACTION IN RECYCLE STREAM BY WEIGHT
<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

SECTION 3, PART B

This WESP is the Pollution Control Equipment for all three of the Fryers. This sheet presents the estimated emissions from the WESP. However, as an emission limit these values apply only to the Line 1 fryer.

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	WET ELECTROSTATIC PRECIPITATOR	N/A
TYPE CODE (FROM APP. A)		N/A
MANUFACTURER	GEOENERGY INTERNATIONAL CORP.	N/A
MODEL NUMBER	E-TUBE	N/A
PRESSURE DROP (IN. OF WATER)	N/A	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	2335
UTM X COORDINATE (KM)	521.742
UTM Y COORDINATE (KM)	4834.785
STACK TYPE (SEE NOTE BELOW)	2
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	63
STACK EXIT DIAMETER (FT)	6.0
STACK EXIT GAS FLOWRATE (ACFM)	45,203
STACK EXIT TEMPERATURE (DEG. F)	159

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10				10.9			
SO2		N/A		N/A			
CO		N/A		N/A			
NOX		N/A		N/A			
VOC				2.89			
LEAD							

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 3: PROCESS AND MANUFACTURING OPERATIONS

DEQ USE ONLY

DEQ PLANT ID CODE	<input type="text"/>	DEQ PROCESS CODE	<input type="text"/>	DEQ STACK ID CODE	<input type="text"/>
DEQ BUILDING CODE	<input type="text"/>	PRIMARY SCC	<input type="text"/>	SECONDARY SCC	<input type="text"/>
DEQ SEGMENT CODE	<input type="text"/>				

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	<input type="text" value="BIOGAS FLARE"/>				
STACK DESCRIPTION	<input type="text" value="OPEN FLAME"/>				
BUILDING DESCRIPTION	<input type="text"/>				
MANUFACTURER	<input type="text" value="N/A"/>	MODEL	<input type="text" value="N/A"/>	DATE INSTALLED	<input type="text" value="1998"/>
				DATE LAST MODIFIED	<input type="text" value="NA"/>

PROCESSING DATA

PROCESS STREAM	MATERIAL DESCRIPTION	MAXIMUM HOURLY RATE	ACTUAL HOURLY RATE	UNITS
INPUT	<input type="text" value="BIOGAS FROM WWTP"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="N/A"/>
PRODUCT OUTPUT	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
WASTE OUTPUT	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
RECYCLE	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

POTENTIAL HAPS IN PROCESS STREAM(S)

HAP DESCRIPTION	HAP CAS NUMBER	FRACTION IN INPUT STREAM BY WEIGHT	FRACTION IN PRODUCT STREAM BY WEIGHT	FRACTION IN WASTE STREAM BY WEIGHT	FRACTION IN RECYCLE STREAM BY WEIGHT
<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

SECTION 3, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE		N/A
TYPE CODE (FROM APP. A)		N/A
MANUFACTURER		N/A
MODEL NUMBER		N/A
PRESSURE DROP (IN. OF WATER)		N/A
WET SCRUBBER FLOW (GPM)		N/A
BAGHOUSE AIR/CLOTH RATIO (FPM)		N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	N/A
HOOD TYPE (FROM APP. B)	N/A
MINIMUM FLOW (ACFM)	N/A
PERCENT CAPTURE EFFICIENCY	N/A
BUILDING HEIGHT (FT)	N/A
BUILDING/AREA LENGTH (FT)	N/A
BUILDING/AREA WIDTH (FT)	N/A

STACK DATA

GROUND ELEVATION (FT)	2335
UTM X COORDINATE (KM)	521.193
UTM Y COORDINATE (KM)	4835.206
STACK TYPE (SEE NOTE BELOW)	2
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	1831.7

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS		
					(LBS/HR)	(TONS/YR)	REFERENCE
PM		N/A		N/A			
PM-10		4.5 lb/MMscf		0.1			
SO2						90	
CO		0.37 lb/MMBtu		2.8			
NOX		0.068 lb/MMBtu		0.5			
VOC		0.14 lb/MMBtu		1.1			
LEAD		N/A		N/A			

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION

Appendix F

Compliance Assurance Monitoring Applicability Assessment

SIMPLOT-CALDWELL CAM APPLICABILITY ASSESSMENT
Caldwell Potato Processing Facility
Caldwell, Idaho

Source	Control Device?	Emission Limit?	Uncontrolled Emissions > 100 tons/year ?	Subject to CAM?
PM₁₀				
Line 1 Fryer	Yes	Yes	No, See Note 1	No
Line 5 Fryer	Yes	Yes (Process Weight)	No, See Note 1	No
Line 6 Fryer	Yes	Yes (Process Weight)	No, See Note 1	No
Line 6 Dryer	No	Yes	No, See Note 2	No
Boiler 1	No	Yes	No, See Note 2	No
Boiler 8	No	Yes	No, See Note 2	No
Flare	No	Yes	No, See Note 2	No
AMUs	No	Yes	No, See Note 2	No
NO_x				
Line 6 Dryer	No	No	No, See Note 2	No
Boiler 1	No	No	No, See Note 2	No
Boiler 8	No	No	No, See Note 2	No
Flare	No	No	No, See Note 2	No
AMUs	No	No	No, See Note 2	No
CO				
Line 6 Dryer	No	No	No, See Note 2	No
Boiler 1	No	No	No, See Note 2	No
Boiler 8	No	No	No, See Note 2	No
Flare	No	No	No, See Note 2	No
AMUs	No	No	No, See Note 2	No
SO₂				
Line 6 Dryer	No	No	No, See Note 2	No
Boiler 1	No	Yes	No, See Note 2	No
Boiler 8	No	No	No, See Note 2	No
Flare	No	Yes	No, See Note 2	No
AMUs	No	No	No, See Note 2	No
VOC				
Line 1 Fryer	No	No	No, See Note 2	No
Line 5 Fryer	No	No	No, See Note 2	No
Line 6 Fryer	No	No	No, See Note 2	No
Line 6 Dryer	No	No	No, See Note 2	No
Boiler 1	No	No	No, See Note 2	No
Boiler 8	No	No	No, See Note 2	No
Flare	No	No	No, See Note 2	No

Source	Control Device?	Emission Limit?	Uncontrolled Emissions > 100 tons/year ?	Subject to CAM?
AMUs	No	No	No, See Note 2	No

1. The following table presents uncontrolled fryer source test data from three different Simplot facilities, including the Caldwell facility. The Aberdeen and Hermiston facilities operate fryers almost identical to the ones at the Caldwell facility. Based on the highest PM emission factor from the following table (0.32 lb PM per M lb of production), none of the Caldwell facility's fryers would emit more than 47.4 tons of PM per year.
2. CAM only applies to an emission unit if it has a control device and an emission limit. The uncontrolled emission rate was not estimated unless these two applicability criteria were met.

Fryer Uncontrolled Emissions Data

Facility	Test Date	Description	Line Type	Throughput Capacity (M lb/yr as finished product)	Exhaust (dscfm)	Exhaust Temperature (degrees F)	Exhaust Moisture Content (%)	Total Particulate gr/dscf	lbs/hr	Source Test Production Rate (M lb/hr)	Emission Factor (lb PM/M lb production)	Annual Emissions (tons/yr)	
Caldwell													
Run 1	5/27/1999	Line 1 fryer (old)	Preform		8,198	186	23.9	0.0468	3.29				
Run 2	5/27/1999	Line 1 fryer (old)	Preform		5,349	194	21.9	0.0618	2.83				
		Line 1 fryer (old),average		66,240	6,774	190	22.9	0.0543	3.06	6.5	0.47	15.6	
Run 1	5/28/1999	Line 4 fryer	Fries		14,151	130	27.4	0.0519	6.29				
Run 2	5/28/1999	Line 4 fryer	Fries		11,862	117	26.5	0.0529	5.38				
		Line 4 fryer,average		217,800	13,007	124	27.0	0.0524	5.84	21.7	0.27	29.3	
Run 1	5/27/1999	Line 6 fryer	Fries		14,199	203	30.5	0.0368	4.48				
Run 2	5/27/1999	Line 6 fryer	Fries		13,847	191	33.3	0.0357	4.24				
		Line 6 fryer,average		217,800	14,023	197	31.9	0.0363	4.36	24.1	0.18	19.7	
		Summary for all Caldwell fryers				33,803				13.26	52.2	0.25	64.6
Aberdeen													
	4/28/1999	Line 1 fryer	Fries	250,000	11,701	163	13.4	0.0352	3.53	17.6	0.20	25.1	
	6/7/1999	Line 2 fryer	Ppreform	30,000	6,945	124	15.4	0.0490	2.92	2.4	1.22	18.3	
		Summary for all Aberdeen fryers				18,646				6.45	20.0	0.32	43.4
Hermiston													
Run 6	4/11/1997	Lines 1,2,3,4,test 1	L1,4 fries		19,258	180	29.5	0.0400	6.60	68.7	0.10		
Run 7	4/11/1997	Lines 1,2,3,4,test 2	L2,3 preform		17,609	183	31.2	0.0420	6.33	62.4	0.10		
		Hermiston Lines 1,2,3,4,average		600,000	18,400	182	30.0	0.0410	6.50	65.6	0.10	29.7	

Appendix G

Potentially Applicable Regulations

Potentially Applicable Requirements

I. Federal Regulatory Requirements

Emissions Unit	Citation under Federal Regulations	Applicable Requirement	Description of Requirements or Standards
Facility Wide	40 CFR Part 52	No	Approval and Promulgation of Implementation Plans; Rules for Prevention of Significant Deterioration. <ul style="list-style-type: none"> The Caldwell facility is not a major source with respect to the Prevention of Significant Deterioration program. Facility-wide emissions are less than the applicability threshold.
Affected Facilities: Boilers 1	40 CFR Part 60 Subpart Dc	No	Standards of Performance for New Stationary Sources. <ul style="list-style-type: none"> The Caldwell facility's boilers are not subject to Subpart Dc because they were constructed prior to the applicability date and have not been modified since their installation at the facility.
Affected Facilities: Boilers 1 and 8	40 CFR 63 Subpart JJJJJ	No	New MACT Rule for Area Sources <ul style="list-style-type: none"> Because the boilers at the Caldwell facility only use natural gas and biogas, they belong to the gas-fired boiler category at area source facilities. Subsequently, these boilers are not subject to any requirements of the MACT rule for area sources.
Facility Wide	40 CFR Part 61, Subpart M	Yes	National Emission Standards for Hazardous Air Pollutants, Asbestos.
Affected Sources	450 CFR Part 63, Subpart A	No	National Emission Standards for Hazardous Air Pollutants for Source Categories. <ul style="list-style-type: none"> The Caldwell facility is not a major source of HAP and as such the NESHAP program does not apply to this facility.
Affected Sources	450 CFR Part 63, Subpart ZZZZ	Yes	National Emission Standards for Hazardous Air Pollutants for RICE at Area Source <ul style="list-style-type: none"> The diesel fired emergency generators throughout the facility maybe subject to the requirements of Subpart ZZZZ.
Affected Sources	40 CFR Part 64	No	Compliance Assurance Monitoring <ul style="list-style-type: none"> None of the sources at the Caldwell facility are subject to the requirements of CAM because they either do not have a control device or their pre-control device emissions are less than the applicable major source threshold. See attached spreadsheet for additional detail.
Facility Wide	40 CFR Part 68	No	Chemical Accident Prevention Provisions

Emissions Unit	Citation under Federal Regulations	Applicable Requirement	Description of Requirements or Standards
			<ul style="list-style-type: none"> The Caldwell facility is not currently subject to this regulatory program. Per 68.10(a), the facility must comply with the Provisions' requirements as soon as the quantity of a regulated substance is above its threshold quantity in a process.
Facility Wide	40 CFR Part 70	Yes	State Operating Permit Program. <ul style="list-style-type: none"> The Caldwell facility is a major source with respect to Title V operating permit program.
Facility Wide	40 CFR Part 82	Yes	Chlorofluorocarbon Regulations.

Potentially Applicable Requirements

Potentially applicable State requirements are presented in the following table

Idaho Regulatory Requirements

Emission Unit	Citation under IDAPA 58.01.01	Applicable Requirement	Description of Requirements or Standards
Facility Wide	130	Yes	STARTUP, SHUTDOWN, SCHEDULED MAINTENANCE, SAFETY MEASURES, UPSET AND BREAKDOWN.
Facility Wide	131	Yes	EXCESS EMISSIONS. <ul style="list-style-type: none"> Applicability.
Facility Wide	132	Yes	CORRECTION OF CONDITION. <ul style="list-style-type: none"> Excess emission events must be corrected with all practical speed.
Facility Wide	133	Yes	STARTUP, SHUTDOWN AND SCHEDULED MAINTENANCE REQUIREMENTS. <ul style="list-style-type: none"> Prescribes procedures for where startup, shutdown, or scheduled maintenance is expected to result in an excess emissions event.
Facility Wide	134	Yes	UPSET, BREAKDOWN AND SAFETY REQUIREMENTS. <ul style="list-style-type: none"> Prescribes procedures for when upset or breakdown or the initiation of safety measures is expected to result in an excess emissions event.

Emission Unit	Citation under IDAPA 58.01.01	Applicable Requirement	Description of Requirements or Standards
Facility Wide	135	Yes	EXCESS EMISSIONS REPORTS. <ul style="list-style-type: none"> Written reports for each excess emissions must be submitted to the Department within 15 days after the beginning of the event.
Facility Wide	136	Yes	EXCESS EMISSIONS RECORDS. <ul style="list-style-type: none"> Records of excess emissions must be maintained for 5 years.
Facility Wide	157	Yes	TEST METHODS AND PROCEDURES. <ul style="list-style-type: none"> Establishes procedures and requirements for test methods and results.
Facility Wide	161	Yes	TOXIC SUBSTANCES. <ul style="list-style-type: none"> Toxic contaminants shall not be emitted as to injure or unreasonably affect human or animal life or vegetation.
Facility Wide	200	Yes	PROCEDURES AND REQUIREMENTS FOR PERMITS TO CONSTRUCT. <ul style="list-style-type: none"> Although the Caldwell facility is not requesting a PTC with this application, the facility must comply with the PTC rules when adding or modifying an air pollution source.
Facility Wide	201	Yes	PERMIT TO CONSTRUCT REQUIRED.
Facility Wide	202	Yes	APPLICATION PROCEDURES.
Facility Wide	203	Yes	PERMIT REQUIREMENTS FOR NEW AND MODIFIED STATIONARY SOURCES.
Facility Wide	210	Yes	DEMONSTRATION OF PRECONSTRUCTION COMPLIANCE WITH TOXIC STANDARDS.
Facility Wide	211	Yes	CONDITIONS FOR PERMITS TO CONSTRUCT.
Facility Wide	212	Yes	OBLIGATION TO COMPLY.
Facility Wide	213	Yes	PRE-PERMIT CONSTRUCTION.
Facility Wide	214	No	DEMONSTRATION OF PRECONSTRUCTION COMPLIANCE FOR NEW AND RECONSTRUCTED MAJOR SOURCES OF HAZARDOUS AIR POLLUTANTS. <ul style="list-style-type: none"> The facility is not a major source of HAP.
Facility Wide	300	Yes	PROCEDURES AND REQUIREMENTS FOR TIER I OPERATING PERMITS. <ul style="list-style-type: none"> The Caldwell facility is a major source with respect to Tier I operating permit program. The facility's carbon monoxide, and particulate matter emissions exceed 100 tons per year.
Facility Wide	301	Yes	REQUIREMENT TO OBTAIN TIER I OPERATING PERMIT
Facility Wide	311	Yes	STANDARD PERMIT APPLICATIONS
Facility Wide	312	Yes	DUTY TO APPLY

Emission Unit	Citation under IDAPA 58.01.01	Applicable Requirement	Description of Requirements or Standards
Facility Wide	313	Yes	TIMELY APPLICATION
Facility Wide	314	Yes	REQUIRED STANDARD APPLICATION FORM AND REQUIRED INFORMATION
Facility Wide	315	Yes	DUTY TO SUPPLEMENT OR CORRECT APPLICATION
Facility Wide	317	Yes	INSIGNIFICANT ACTIVITIES
Facility Wide	368	Yes	EXPIRATION OF PRECEDING PERMITS
Facility Wide	387	Yes	REGISTRATION AND REGISTRATION FEES
Facility Wide	388	Yes	APPLICABILITY
Facility Wide	389	Yes	REGISTRATION
Facility Wide	390	Yes	REQUEST FOR INFORMATION
Facility Wide	391	Yes	REGISTRATION FEE
Facility Wide	392	Yes	REGISTRATION BY THE DEPARTMENT
Facility Wide	393	Yes	PAYMENT DUE
Facility Wide	577	Yes	AMBIENT AIR QUALITY STANDARDS FOR SPECIFIC POLLUTANTS.
Boilers, Dryers, and AMUs	585	Yes	TOXIC AIR POLLUTANTS NON-CARCINOGENIC INCREMENTS
Boilers, Dryers, and AMUs	586	Yes	TOXIC AIR POLLUTANTS CARCINOGENIC INCREMENTS
Boilers 1 and 8	590	No	NEW SOURCE PERFORMANCE STANDARDS <ul style="list-style-type: none"> Boilers 1 and 8 were built and last modified before the applicability date in 40 CFR Parts 60.40b(a) and 60.40c(a).
Facility Wide	591	Yes	NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS <ul style="list-style-type: none"> The Caldwell facility is not a major source of HAP, but may be subject to MACT ZZZZ for diesel fired emergency generators.
Facility Wide	600	Yes	RULES FOR CONTROL OF OPEN BURNING
Facility Wide <i>except for the AMUs because they do not vent directly to atmosphere.</i>	625	Yes	VISIBLE EMISSIONS. <ul style="list-style-type: none"> A person shall not emit an air pollutant from any point of emission for a period or periods aggregating more than 3 minutes in any 60-minute period that is greater than 20% opacity. Prescribes test methods and procedures for performance testing.
Facility Wide	650	Yes	RULES FOR CONTROL OF FUGITIVE DUST.
Facility Wide	651	Yes	GENERAL RULES. <ul style="list-style-type: none"> Reasonable precautions shall be taken to prevent particulate matter from becoming airborne.

Emission Unit	Citation under IDAPA 58.01.01	Applicable Requirement	Description of Requirements or Standards
Boilers 1 and 8	676	Yes	FUEL BURNING EQUIPMENT – PARTICULATE MATTER. STANDARDS FOR NEW SOURCES <ul style="list-style-type: none"> The Caldwell facility’s boilers will combust only gaseous fuels. Both boilers are limited to 0.015 gr/dscf @3% O₂ particulate matter emissions.
Line 1 Fryer, Line 1 Dryer, Line 5 Fryer	701	Yes	PARTICULATE MATTER – NEW EQUIPMENT PROCESS WEIGHT LIMITATIONS. <ul style="list-style-type: none"> These sources were all installed at the Caldwell facility after October 1, 1979, the applicability date for this section. As such, the PM limits established in this section apply to these sources.
Line 6 Fryer, Line 6 Dryer	702	Yes	PARTICULATE MATTER – EXISTING EQUIPMENT PROCESS WEIGHT LIMITATIONS. <ul style="list-style-type: none"> These sources were all installed at the Caldwell facility before October 1, 1979, the applicability date for this section. As such, the PM limits established in this section apply to these sources.
Facility Wide	776	Yes	GENERAL RULES. <ul style="list-style-type: none"> Odorous gases, liquids or solids shall not be emitted as to cause air pollution.

Appendix H
Requirement – Specific Compliance Certification and Demonstration
Methodology

Specific Applicable Requirements and Compliance Certification

Emission Unit – Specific Requirements					
Requirement or Permit Condition		Complying?	Compliance Determination		
Citation	Condition		Method At Time of Application	Proposed Method During Permit Term	Proposed Frequency of Determination During Permit Term
Line 1 Dryer (S-C-D1)					
IDAPA 58.01.01.625	20% Opacity	Yes	Visual Observation	Visual Observation	Quarterly
IDAPA 58.01.01.701	PM by Process Weight	Yes	Engineering Estimate	Based on records of finished product, Simplot will calculate the Line 1 dryer’s daily throughput, and will use this information in conjunction with the emission factor-based emission rate to demonstrate compliance with this condition.	Monthly
Tier I Permit No. T1-2009.0119 PROJ 60756 Condition 3.8	The Line 1 dryer shall be fired by natural gas exclusively.	Yes	The Line 1 Dryer is capable of combusting only natural gas. It is not possible for this piece of combustion equipment to burn any other fuels.		NA
Line 6 Dryer (S-C-D6)					
IDAPA 58.01.01.625	20% Opacity	Yes	Visual Observation	Visual Observation	Quarterly

Emission Unit – Specific Requirements					
Requirement or Permit Condition		Complying?	Compliance Determination		
Citation	Condition		Method At Time of Application	Proposed Method During Permit Term	Proposed Frequency of Determination During Permit Term
IDAPA 58.01.01.702	PM by Process Weight	Yes	Engineering Estimate	Based on records of finished product, Simplot will calculate the Line 6 dryer’s daily throughput, and will use this information in conjunction with the emission factor-based emission rate to demonstrate compliance with this condition.	Monthly
Tier I Permit No. T1-2009.0119 PROJ 60756 Condition 3.8	The Line 6 dryer shall be fired by natural gas exclusively.	Yes	The Line 6 Dryer is capable of combusting only natural gas. It is not possible for this piece of combustion equipment to burn any other fuels.		NA
Line 1 Fryer (S-C-F1)					
IDAPA 58.01.01.625, and Tier I Permit No. T1- 2009.0119 PROJ 60756	20% Opacity	Yes	Visual Observation	Visual Observation	Quarterly

Emission Unit – Specific Requirements					
Requirement or Permit Condition		Complying?	Compliance Determination		
Citation	Condition		Method At Time of Application	Proposed Method During Permit Term	Proposed Frequency of Determination During Permit Term
IDAPA 58.01.01.701	PM by Process Weight	Yes	Engineering Estimate.	Based on records of finished product, Simplot will calculate the Line 1 fryer’s daily throughput, and will use this information in conjunction with the source test results to develop an emission factor to demonstrate compliance with this condition.	Monthly
Tier I Permit No. T1-2009.0119 PROJ 60756	Throughput not to exceed 41,908 tons of finished product per 12 month period	Yes	Simplot proposes to rescind the throughput limit on the Line 1 fryer. The control equipment for all three fryer lines, the WESP, was sized to accommodate all three fryers operating at their maximum production rates concurrently. Once per permit term, Simplot will conduct a source test on the WESP to demonstrate compliance with the applicable PM10 emission limits.		Once per permit term
Tier I Permit No. T1-2009.0119 PROJ 60756	PM emissions from Line 1 fryer stack shall not exceed 10.88 lb/hr and 47.65 TPY	Yes	September 2003 WESP source test	Simplot will source test the WESP based upon DEQ source testing frequency requirements. Simplot expects to source test the WESP only once per permit term.	Once per permit term
Tier I Permit No. T1-2009.0119 PROJ 60756	Conditions 3.7 and 3.10	Yes	Former permit conditions pertain to the fryers’ previous air pollution control device (a wet scrubber) were replace with conditions applicable to the fryers’ current air pollution control device: a WESP.		NA
Line 5 Fryer (S-C-F5)					

Emission Unit – Specific Requirements					
Requirement or Permit Condition		Complying?	Compliance Determination		
Citation	Condition		Method At Time of Application	Proposed Method During Permit Term	Proposed Frequency of Determination During Permit Term
IDAPA 58.01.01.625, Tier I Permit No. T1-2009.0119 PROJ 60756	20% Opacity	Yes	Visual Observation	Visual Observation	Quarterly
IDAPA 58.01.01.701, Cond. 3.1	PM by Process Weight	Yes	Engineering Estimate	Based on records of finished product, Simplot will calculate the Line 5 fryer’s daily throughput, and will use this information in conjunction with the source test results to develop an emission factor to demonstrate compliance with this condition	Once per permit term
Line 6 Fryer (S-C-F6)					
IDAPA 58.01.01.625, and Tier I Permit No. T1- 2009.0119 PROJ 60756	20% Opacity	Yes	Visual Observation	Visual Observation	Quarterly

Emission Unit – Specific Requirements					
Requirement or Permit Condition		Complying?	Compliance Determination		
Citation	Condition		Method At Time of Application	Proposed Method During Permit Term	Proposed Frequency of Determination During Permit Term
IDAPA 58.01.01.702	PM by Process Weight	Yes	Engineering Estimate	Based on records of finished product, Simplot will calculate the Line 6 fryer’s daily throughput, and will use this information in conjunction with the source test results to develop an emission factor to demonstrate compliance with this condition	Once per permit term
Boiler 1 (S-C-B1)					
IDAPA 58.01.01.625 Cond. 3.1	20% Opacity	Yes	Visual Observation	Visual Observation	Quarterly
IDAPA 58.01.01.677	0.015 gr/dscf (3% O2)	Yes	Engineering Estimate		Quarterly
PTC Permit No. P-2009.0136 Operating Requirement 21, IDAPA 58.01.01.322.01	The boiler shall be fired on natural gas or a mixture of natural gas and biogas.	Yes	Boiler 1 is capable of combusting natural gas or a mixture of natural gas and biogas. The combustible portion of the biogas is similar to natural gas. It is not possible for this boiler to burn any other fuels.		NA
Boiler 8 (S-C-B8)					

Emission Unit – Specific Requirements					
Requirement or Permit Condition		Complying?	Compliance Determination		
Citation	Condition		Method At Time of Application	Proposed Method During Permit Term	Proposed Frequency of Determination During Permit Term
IDAPA 58.01.01.625	20% Opacity	Yes	Visual Observation	Visual Observation	Quarterly
IDAPA 58.01.01.677	0.015 gr/dscf (3% O2)	Yes	Engineering Estimate		Quarterly
Tier I Permit No. T1-2009.0119 PROJ 60756 Condition 3.8, IDAPA 58.01.01.322.01	The boiler shall be fired only on natural gas.	Yes	Boiler 8 is capable of combusting only natural gas. It is not possible for this boiler to burn any other fuels.		NA
AMU 5 (S-C-H5)					
IDAPA 58.01.01.677	0.015 gr/dscf (3% O2)	Yes	Engineering Estimate		Quarterly

Emission Unit – Specific Requirements					
Requirement or Permit Condition		Complying?	Compliance Determination		
Citation	Condition		Method At Time of Application	Proposed Method During Permit Term	Proposed Frequency of Determination During Permit Term
Tier I Permit No. T1-2009.0119 PROJ 60756 Condition 5.2, IDAPA 58.01.01.322.01	The heater/AMU shall be fired only on natural gas.	Yes	Heater/AMU 5 is capable of combusting only natural gas. It is not possible for this heater to burn any other fuels.		NA
Biogas Unit					
Tier I Permit No. T1-2009.0119 PROJ 60756	SO ₂ emissions from the biogas flare shall not exceed 90.0 TPY	Yes	November 2003 compliance test. Simplot tested for H ₂ S and used the results to calculate the flare's SO ₂ emission rate.	Engineering calculation.	Quarterly
Tier I Permit No. T1-2009.0119 PROJ 60756	The H ₂ S concentration in the biogas shall not exceed a maximum of 5,391 ppmv.	Yes	November 2003 compliance test.	Engineering calculations	Quarterly

Emission Unit – Specific Requirements					
Requirement or Permit Condition		Complying?	Compliance Determination		
Citation	Condition		Method At Time of Application	Proposed Method During Permit Term	Proposed Frequency of Determination During Permit Term
IDAPA 58.01.01.625, and Tier I Permit No. T1- 2009.0119 PROJ 60756	20% Opacity	Yes	Visual Observation	Visual Observation	Quarterly
Tier I Permit No. T1-2009.0119 PROJ 60756	COD reduction of wastewater in ADI-BVF anaerobic digester shall be limited to an average 2.0 million pounds per month during any 12- month period.	Yes	Simplot uses an analytical test to monitor and record the COD reduced in the ADI-BVF digester at least once each month.	Same as current methodology.	Monthly
Tier I Permit No. T1-2009.0119 PROJ 60756	Biogas flare shall be operated with a pilot flame at all times the digester operates.	Yes	Simplot employs a thermocouple which detects the presence of flame.	Same as current methodology.	Continuous

Appendix I

Excess Emission Procedures

1. General Description of Unit/Principles of Operation

The WESP (Wet Electrostatic Precipitator) receives the exhaust gases from the Lines 1,5, and 6 fryers. The WESP consists of a water recirculation system and an electric grid. The water cools and condenses some of the materials. The grid imparts a charge on the fine particles.

2. Emission Limits

<u>Parameter</u>	<u>Value</u>
PM	Process Weight
PM Line 1	10.88lb.hr and 47.65 T/yr
Visible Emissions	20% Opacity for no more than three minutes in any 60 minute period
Throughput Line 1	41,908 T/yr in any consecutive 12 month period

3. Normal Operating Procedures

The normal operating range for the WESP is given below:

<u>Parameter</u>	<u>Range</u>
Water flow rate	210 to 350 GPM
Secondary Voltage	10 to 50KV

These are the key operation parameters.

The following recordkeeping is required:

<u>Parameter</u>	<u>Where</u>	<u>How often</u>
Throughput line 1	Environmental Dept	Once per month
Water flow rate	Environmental Dept	Daily
Visible Emissions	Environmental Dept	Quarterly
Secondary Voltage	Environmental Dept	Daily

Actions to be taken

<u>Parameter</u>	<u>Action Level</u>	<u>Action to take</u>
Water Flow Rate	222 gpm	See WESP O&M Plan
Secondary voltage	< average 10KV	See WESP O&M Plan

4. Procedures to Minimize Emissions During Unusual Conditions

- Procedure 1: Electrical failure or power outage
 Procedure 2: Mechanical failure

Details of the procedures follow. These procedures are to be followed during unusual operating conditions to minimize excess emissions. If the operating ranges of key parameters are outside of the normal operating range, complete the checklist of the applicable situation and forward to your supervisor and the Environmental Department ASAP.