STATEMENT OF BASIS FOR:
SPOKANE REGIONAL SOLID WASTE SYSTEM
WASTE-TO-ENERGY FACILITY
CHAPTER 401 AIR OPERATING PERMIT
AOP-3 Renewal #2

Prepared by: April L. Westby
Date: February 11, 2013
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BACT</td>
<td>Best available control technology</td>
</tr>
<tr>
<td>CEM</td>
<td>Continuous emission monitor</td>
</tr>
<tr>
<td>CEMS</td>
<td>Continuous emission monitoring system</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>CO</td>
<td>Carbon monoxide</td>
</tr>
<tr>
<td>COM</td>
<td>Continuous opacity monitor</td>
</tr>
<tr>
<td>COMS</td>
<td>Continuous opacity monitoring system</td>
</tr>
<tr>
<td>dba</td>
<td>Doing business as</td>
</tr>
<tr>
<td>dscf</td>
<td>Dry standard cubic foot</td>
</tr>
<tr>
<td>ECOLOGY</td>
<td>Washington State Department of Ecology</td>
</tr>
<tr>
<td>EPA</td>
<td>United States Environmental Protection Agency</td>
</tr>
<tr>
<td>FCAA</td>
<td>Federal Clean Air Act</td>
</tr>
<tr>
<td>gr/dscf</td>
<td>Grains per dry standard cubic foot</td>
</tr>
<tr>
<td>HAP</td>
<td>Hazardous air pollutant as designated under Title III of FCAA</td>
</tr>
<tr>
<td>mg/dscm</td>
<td>Milligrams per dry standard cubic meter</td>
</tr>
<tr>
<td>MMBTU</td>
<td>Millions of British thermal units</td>
</tr>
<tr>
<td>MRRR</td>
<td>Monitoring, recordkeeping, &amp; reporting requirements</td>
</tr>
<tr>
<td>MWC</td>
<td>Municipal waste combustor, also referred to a municipal waste combustor unit</td>
</tr>
<tr>
<td>NAA</td>
<td>Nonattainment area</td>
</tr>
<tr>
<td>NOC</td>
<td>Notice of Construction</td>
</tr>
<tr>
<td>NOx</td>
<td>Oxides of nitrogen</td>
</tr>
<tr>
<td>O2</td>
<td>Oxygen</td>
</tr>
<tr>
<td>O&amp;M</td>
<td>Operation &amp; maintenance</td>
</tr>
<tr>
<td>Pb</td>
<td>Lead</td>
</tr>
<tr>
<td>PM</td>
<td>Particulate matter</td>
</tr>
<tr>
<td>PM10</td>
<td>Particulate matter, 10 microns or less in size</td>
</tr>
<tr>
<td>PSD</td>
<td>Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>RACT</td>
<td>Reasonably available control technology</td>
</tr>
<tr>
<td>RCW</td>
<td>Revised Code of Washington</td>
</tr>
<tr>
<td>RM</td>
<td>EPA reference method from 40 CFR Part 60, Appendix A</td>
</tr>
<tr>
<td>SCAPCA</td>
<td>Spokane County Air Pollution Control Authority (on June 3, 2007, SCAPCA was</td>
</tr>
<tr>
<td></td>
<td>Renamed to SRCAA)</td>
</tr>
<tr>
<td>SRCAA</td>
<td>Spokane Regional Clean Air Agency (prior to June 3, 2007, agency was named</td>
</tr>
<tr>
<td></td>
<td>SCAPCA)</td>
</tr>
<tr>
<td>scf</td>
<td>Standard cubic foot</td>
</tr>
<tr>
<td>SO2</td>
<td>Sulfur dioxide</td>
</tr>
<tr>
<td>SOx</td>
<td>Oxides of sulfur</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile organic compounds</td>
</tr>
<tr>
<td>WAC</td>
<td>Washington Administrative Code</td>
</tr>
</tbody>
</table>

Statement of Basis
Spokane Regional Solid Waste System - WTE facility
AOP-3 Renewal #2
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DEFINITIONS OF WORDS AND PHRASES

Terms not otherwise defined in this permit have the meaning assigned to them in the referenced regulations.

Administrator
The administrator of the United States Environmental Protection Agency or her/his designee [WAC 173-401-200(12), 8/10/11]

Chapter 401 Permit
Any permit or group of permits covering a source, subject to the permitting requirements of Chapter 173-401 WAC, that is issued, renewed, amended, or revised pursuant to Chapter 173-401 WAC [WAC 173-401-200(5), 8/10/11]

Emission Limitation
A requirement established under the FCAA or Chapter 70.94 RCW which limits the quantity, rate or concentration of emissions of air contaminants on a continuous basis, including any requirement relating to the operation or maintenance of a source to assure continuous emission reduction and any design, equipment work practice, or operational standard promulgated under the FCAA or Chapter 70.94 RCW [WAC 173-400-030(27), 11/28/12]

Emissions Unit
Any part of a stationary source or source which emits or would have the potential to emit any pollutant subject to regulation under the Federal Clean Air Act, Chapter 70.94 RCW, or 70.98 RCW [WAC 173-400-030(29), 11/28/12]

Federal Clean Air Act

Opacity
the degree to which an object seen through a plume is obscured, stated as a percentage [WAC 173-400-030(58), 11/28/12]

PM Standard
an emission limitation on the amount of particulate matter an emissions unit may emit, generally expressed in terms of grains per dry standard cubic foot, pounds per hour, or some other concentration or emission rate.

Visible Emissions Standard
an emission limitation on visible emissions expressed in percent opacity
City of Spokane - Spokane Regional Solid Waste System (SRSWS) owns a “Waste-to-Energy” (WTE) municipal waste combustor (MWC) facility that is used to burn the majority of municipal solid waste generated in Spokane County. The facility is classified as a major source, as defined in Chapter 173-401 WAC, due to potential emissions of:

- oxides of nitrogen > 100 tpy;
- sulfur dioxide > 100 tpy;
- carbon monoxide > 100 tpy;
- non-methane hydrocarbons > 100 tpy;
- hydrogen chloride (which is a Hazardous Air Pollutant or HAP) > 10 tpy;
- total hazardous air pollutants (HAPs), including hydrogen chloride, fluorides, and metals > 25 tpy; and
- greenhouse gases (CO2e) of over 100,000 tpy.

As a major source, SRSWS is required to maintain an operating permit under SRCAA's Title V air operating permit program, as established in Chapter 173-401 WAC. WAC 173-401-700(8) requires that at the time a draft permit is issued under the Title V program, a statement be provided setting forth the legal and factual basis for permit conditions including reference to the applicable statutory or regulatory provisions for the conditions. This document provides the basis for the draft permit for SRSWS.

The permit is organized into sections. The first section contains standard terms and conditions. This section is basically the same for all permits issued by SRCAA. For this permit, some new conditions have been added to this section which only apply to the SRSWS facility. The second section contains applicable requirements that apply to the facility, along with monitoring, recordkeeping, and reporting requirements, sufficient to assure compliance with each applicable requirement. This section is divided into subsections to address different emission units or classes of emission units. The third section is unique to this permit, containing streamlined permit conditions. The fourth and final section of the permit addresses requirements that have been deemed inapplicable to the source or to emission units located at the source, i.e., the permit shield per WAC 173-401-640(2).

After a brief summary of operations at the facility, the format of this Statement of Basis will follow that of the permit with the standard terms and conditions discussed first, followed by the applicable requirements, streamlined conditions, and finally, the permit shield.

FACILITY SUMMARY
The facility began operation in 1991. SRSWS's facility burns up to about 950 tons per day of
municipal solid waste. The NOC and PSD applications identified the facility as having a nominal capacity to burn 800 tons per day of municipal solid waste, based on a heat value of 5,500 BTU/lb of waste, which is equivalent to 8.8e9 BTU/day. The average heat value of the waste burned at the SRSWS is 4,500-4,800 BTU/lb. With the lower heat value, SRSWS is able to burn more than 800 tons of municipal solid waste per day and remain within the nominal capacity of the facility, in terms of BTU equivalency (i.e., stay below 8.8e9 BTU/day). Natural gas is used as supplemental fuel during start up, shut downs, and other periods when additional heat input is needed to maintain proper combustion. The process involves:

- the receipt of municipal solid waste;
- some sorting of waste. There are special areas on the tipping floor for yard and garden waste, sheetrock, and large appliances. There is a separate area where recyclables and household hazardous wastes are collected;
- municipal solid waste is burned in the two combustors (the yard and garden waste is generally transported to an off-site facility for composting, the sheetrock is landfilled, appliances and other recyclables are recycled, and household hazardous waste is disposed of appropriately);
- heat from the burning of waste is used to generate electricity which is sold; and
- ash is transported to a landfill.

PERMITTING HISTORY & REGULATORY SUMMARY

Both a Notice of Construction (NOC #170) and a Prevention of Significant Deterioration permit (PSD #88-1B) were approved for the facility prior to start-up. NOC #170 has been revised several times since it was approved, most recently on November 28, 2012. After the facility commenced operation, SRCAA approved NOC #934 for the installation of a scrubber on the ash handling system, NOC #1057 for a carbon injection system, and NOC #1241 for a system that converts urea to ammonia used in the ammonia injection system (this system is currently not in use). In addition, the facility is subject to the requirements given in Chapter 173-434 WAC, “Solid Waste Incinerator Facilities” and the requirements from 40 CFR 60, Subpart Cb, which are incorporated into SRCAA Regulation I, Section 6.17, “Standards for Municipal Solid Waste Combustors.”

SRCAA issued AOP-3 to SRSWS on July 23, 2001. SRCAA issued AOP-3, Renewal #1 to SRSWS on October 30, 2006. SRCAA Regulation I, Section 6.17 was revised on May 5, 2007 to incorporate the May 10, 2006 revisions to 40 CFR 60, Subpart Cb (which contains federal emission guidelines for existing MWCs). AOP-3, Renewal #1 was revised on November 17, 2008 to incorporate revised requirements in SRCAA Regulation I, Section 6.17, “Standards for Municipal Solid Waste Combustors.”

The facility is not subject to the “Standards of Performance for New Stationary Sources and Emission Guidelines for Existing Sources: Commercial and Industrial Solid Waste Incineration Units,” (CISWI) given in 40 CFR 60, Subparts CCCC and DDDD because these rules regulate CISWI units, which exclude municipal solid waste combustion units that are regulated under 40 CFR 60, Subpart Cb. Since the facility is regulated under 40 CFR 60, Subpart Cb, the federal
CISWI regulations do not apply. Similarly, the facility is not subject to the “National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters,” given in 40 CFR 63, Subpart DDDDD (a.k.a., “Boiler MACT”) because the rule exempts an affected source in any standard(s) established under section 129 of the Clean Air Act. Since 40 CFR 60, Subpart Cb was established in accordance with Section 111(d) and Section 129 of the Clean Air Act, municipal solid waste combustions facilities are not subject to 40 CFR 63, Subpart DDDDD (Boiler MACT).

GREENHOUSE GAS REQUIREMENTS
On December 1, 2010, the Washington Department of Ecology promulgated a regulation, given in Chapter 173-441 WAC, for state reporting of greenhouse gas (GHG) emissions. Chapter 173-441 WAC establishes GHG reporting requirements that apply to owners and operators of certain facilities that directly emit GHG in Washington. The rule applies to any facility that emits 10,000 metric tons CO₂e or more per calendar year in total GHG emissions.

For an existing facility that began operation before January 1, 2012, GHG emissions must be reported to the Washington Department of Ecology for calendar year 2012 and each subsequent calendar year. The report is due by March 31st of each calendar year for GHG emissions in the previous calendar year if a person is also required to report GHG emission to EPA under 40 CFR Part 98. The report is due by October 31st of each calendar year for GHG emissions in the previous calendar year if a person is not required to report GHG emissions to EPA under 40 CFR Part 98.

The state greenhouse gas (GHG) reporting requirements, given in Chapter 173-441 WAC, were added to the revised air operating permit as Condition 34. This condition was added to the “General Monitoring, Recordkeeping, & Reporting” section of the permit. The requirements apply because the WTE facility has high enough GHG emissions to require reporting to Ecology, as required in Chapter 173-441 WAC.

In addition to the state GHG reporting requirements, EPA has also promulgated some additional GHG rules, namely the “tailoring rule,” which sets thresholds for GHG emissions that define when permits under the PSD program and Title V program are required for new and existing facilities, and the federal GHG reporting rules.

Federal GHG reporting requirements
On October 30, 2009, as amended on July 12, 2010, September 22, 2010, November 30, 2010, December 1, 2010, December 17, 2010, December 27, 2010, and March 18, 2011, EPA promulgated regulations for mandatory federal GHG reporting in 40 CFR Part 98. In general, the regulations require that facilities that emit 25,000 metric tons of CO₂e must report their GHG emissions to EPA. However, as discussed in the preamble to the rule contained in the Federal Register notice, dated October 30, 2009, the federal GHG reporting requirements given in 40 CFR Part 98 are not considered “applicable requirements,” as defined in 40 CFR 70.2, under the title V operating permit program. Therefore, the federal GHG reporting requirements in 40 CFR Part 98 do not need to be included in the title V permit.
“Tailoring Rule”

On May 13, 2010, EPA issued a final rule that “tailors” the applicability criteria given in 40 CFR Parts 51, 52, 70, and 71 that determine which stationary sources and modification projects become subject to permitting requirements for GHG emissions under the PSD and title V programs of the Clean Air Act. The Washington Department of Ecology adopted the tailoring rule changes on the state level by revising Chapter 173-400 WAC (filed on 3/1/11).

Per the tailoring original rule, on and after July 1, 2011, any existing or new source with the potential to emit more than 100,000 tpy CO2e will need a Title V permit. For PSD, a project will only trigger permitting requirements if the project is expected to increase GHG emissions by more than 75,000 tpy CO2e. After the original tailoring rule was promulgated, EPA issued an additional rulemaking which defers, for a period of three years, the application of the PSD and Title V permitting requirements to carbon dioxide (CO2) emissions from bioenergy and other biogenic stationary sources (biogenic CO2). Biogenic CO2 emissions are defined as emissions of CO2 from a stationary source directly resulting from the combustion or decomposition of biologically-based materials other than fossil fuels and mineral sources of carbon, including CO2 from combustion of the biological fraction of municipal solid waste.

In order to meet the requirements of the tailoring rule, WTE submitted the following PTE estimate of their total GHG emissions, based on the maximum steam rating and BTU/hr rating of the boilers.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Total CO2e Including Biogenic (Metric Tons/yr)</th>
<th>Total CO2e Excluding Biogenic (Metric Tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>149,376</td>
<td>59,832</td>
</tr>
<tr>
<td>2</td>
<td>149,376</td>
<td>59,832</td>
</tr>
<tr>
<td>TOTAL</td>
<td>298,752</td>
<td>119,664</td>
</tr>
</tbody>
</table>

WTE also submitted information on the biogenic portion of the GHG emissions from the facility, based on quarterly testing performed at the facility. Based on the quarterly testing performed in 2010, 60% of the GHG emissions from the facility are considered biogenic. The biogenic and non-biogenic GHG PTE emissions were estimated by WTE as follows:

**CO2e (Metric Tons/yr)**

Biogenic: 179,088  
Non-biogenic: 119,664  
TOTAL: 298,752
Since the non-biogenic GHG PTE emissions are above 100,000 tpy, WTE is considered major for GHG under the tailoring rule. SRCAA is meeting the requirements of the tailoring rule by incorporating the applicable state GHG reporting requirements under Chapter 173-441 WAC into this Title V permit. In addition, the permit incorporates the newly revised version of Chapter 173-400 WAC, which adopted the tailoring rule new source review thresholds on a state level. The newly revised version of Chapter 173-400 WAC adopted by reference the subparts of 40 CFR 52.21, in effect on July 20, 2011, into WAC 173-400-720, “Prevention of significant deterioration (PSD),” which includes the tailoring rule new source review thresholds. The revised permit requires that WTE meet the requirements given in the newly revised version of Chapter 173-400 WAC for any new source review project that might occur (Condition 48). This condition will ensure that WTE must obtain a PSD permit and meet BACT for any future project that causes an increase of GHG emissions above the thresholds established in the tailoring rule.

COMPLIANCE HISTORY
SRCAA has performed a compliance inspection at the WTE facility annually since 1991. The most recent inspection was performed on February 14, 2012.

During the past ten years, SRCAA has issued four Notices of Violation to the WTE facility.

- On October 27, 2010, SRCAA issued NOV #7881 to SRSWS for violation of the mercury emission limit during the June 2010 source test (Unit #2). During the 2010 source test, the carbon injection system was not being used. SRSWS paid a civil penalty of $5,000 and signed a settlement agreement for the violation. As part of the settlement agreement for NOV #7881 dated December 17, 2010, WTE agreed to an enforceable minimum carbon injection rate of 2 lbs/hr which is included as part of this renewal AOP;

- On September 8, 2004, SRCAA issued NOV #7119 to SRSWS for exceeding the 1,200 lbs of Polyurethane Foam (PUF) limit that may be received in any two weeks, as allowed per a letter dated 6/1/04 which was sent based upon the October 19, 1999 supplement to the medicated agreement memorandum on receipt of special waste, dated March 2, 1998. SRSWS paid a civil penalty of $687 for the violation.

- On April 19, 2002, SRCAA issued NOV #6896 to SRSWS for using expired cylinder gases during the cylinder gas audit performed on December 18, 2001. SRSWS paid a civil penalty of $250 for the violation.

- On February 15, 2002, SRCAA issued NOV #6138 for failure to recover opacity data from the COMs on Units #1 and #2 from March 23 – December 12, 2001. SRSWS paid a civil penalty of $1,063 for the violation.

In addition to the four violations listed above, there have been excess emissions events which have occurred that have been excused from penalties because they were deemed unavoidable by SRCAA, per WAC 173-400-107 and/or SRCAA Regulation I, Section 6.08.

There was also an agreement, dated December 1, 2006, between SRCAA and SRSWS for
additional non-methane hydrocarbon (NMHC) testing that was agreed to because of elevated NMHC that were measured during the Unit #2 testing which occurred on May 16, 2006. Under the agreement, SRSWS agreed to perform quarterly stack tests for NMHC during 2007.

EMISSION UNITS
Emissions from the facility include combustion emissions from the burning of municipal solid waste, and fugitive emissions from handling municipal solid waste and ash and from traffic on roadways.

The facility’s significant emission units are listed in Table 1.

Table 1 – Significant Emission Units

<table>
<thead>
<tr>
<th>Emission Point # (as listed in the permit application)</th>
<th>DESCRIPTION</th>
<th>AIR POLLUTION CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1A Babcock and Wilcox boiler with Von Roll grates, rated at 183.33 MMBTU/hr (NOC #170) (PSD #88-1B)</td>
<td>Combustion Control, Ammonia Injection (NOC #1241), Spray Dry Absorber, Baghouse, Carbon Injection System (NOC #1057)</td>
<td></td>
</tr>
<tr>
<td>1-1B Babcock and Wilcox boiler with Von Roll grates, rated at 183.33 MMBTU/hr (NOC #170) (PSD #88-1B)</td>
<td>Combustion Control, Ammonia Injection (NOC #1241), Spray Dry Absorber, Baghouse, Carbon Injection System (NOC #1057)</td>
<td></td>
</tr>
<tr>
<td>N/A Lime Silo</td>
<td>Baghouse</td>
<td></td>
</tr>
<tr>
<td>N/A Ash Handling System</td>
<td>Scrubber (NOC #934)</td>
<td></td>
</tr>
<tr>
<td>2-1 Fire Pump Engine, Diesel Fired (Compression Ignition), 235 hp</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

Insignificant Emission Units
Insignificant emission units (IEUs) include any activity or emission unit located at a major source which qualifies as insignificant under the criteria listed in WAC 173-401-530. A list of the IEUs, identified in the permit application, is presented below in Table 2. In order to remain an IEU, emissions from units designated insignificant based solely on WAC 173-401-530(1)(a) must remain below threshold levels.

Insignificant emission units are subject to the generally applicable requirements (i.e., facility-wide emission limitations). According to WAC 173-401-530, testing, monitoring, recordkeeping,
and reporting are not required for insignificant emission units unless determined by the permitting authority to be necessary to assure compliance or unless it is otherwise required by a generally applicable requirements in the State Implementation Plan (SIP). SRCAA has determined that testing, monitoring, recordkeeping, and reporting are not necessary for the insignificant emission units presented in Table 2 to assure compliance with the generally applicable requirements. SRCAA's determination was based on the following:

- SRCAA has not documented a violation of any of the generally applicable requirements in the past from the list of IEUs in Table 2 (i.e., the IEUs have had a consistent compliance history); and
- Most of the IEUs are tanks that emit small quantities of pollutants; and
- The majority of the IEUs are emission units or activities that are not directly vented (i.e., do not have an exhaust stack).

**Table 2**

<table>
<thead>
<tr>
<th>IEU Description</th>
<th>Basis / Justification for IEU Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk Waste Oil Tank</td>
<td>WAC 173-401-533(2)(c)</td>
</tr>
<tr>
<td>Diesel Fuel Storage Tank</td>
<td>WAC 173-401-533(2)(c)</td>
</tr>
<tr>
<td>Lube Oil Vapor Extraction Vents</td>
<td>WAC 173-401-530(4)(d)</td>
</tr>
<tr>
<td>Bearing Drain Enlargement Vents</td>
<td>WAC 173-401-530(4)(d)</td>
</tr>
<tr>
<td>Emerald Services Degreaser (Recycling Unit)</td>
<td>WAC 173-401-530(4)(d) WAC 173-401-533(2)(o)</td>
</tr>
<tr>
<td>Plant Roads</td>
<td>WAC 173-401-530(4)(e)</td>
</tr>
<tr>
<td>Muriatic Acid Tank</td>
<td>WAC 173-401-530(4)(p)</td>
</tr>
<tr>
<td>Balanced Polymer Tank</td>
<td>WAC 173-401-533(2)(c)</td>
</tr>
<tr>
<td>Phosphoric Acid Tank</td>
<td>WAC 173-401-533(2)(s)</td>
</tr>
<tr>
<td>Caustic Tank</td>
<td>WAC 173-401-533(2)(s)</td>
</tr>
<tr>
<td>Urea Storage Tank</td>
<td>WAC 173-401-530(4)(q)</td>
</tr>
<tr>
<td>Component Cooling Tank</td>
<td>WAC 173-401-533(2)(q)</td>
</tr>
<tr>
<td>Welding</td>
<td>WAC 173-401-533(2)(i)</td>
</tr>
<tr>
<td>Back-up Diesel Generator (a.k.a. Turning Gear Engine)</td>
<td>WAC 173-401-530(4)</td>
</tr>
</tbody>
</table>

Note: The application also designated the plant roads as being insignificant on the basis of threshold limits. However, because the plant roads have applicable requirements, the roads are
not considered insignificant.

STANDARD TERMS AND CONDITIONS
This section of SRSWS's permit contains the standard terms and conditions that apply to all sources in SRCAA's Title V program. These include all terms required in Chapter 173-401 WAC as well as requirements from other air quality laws and regulations. For this facility, a few new terms have been added to this section. These additional terms are footnoted in this document to facilitate their identification. This section is organized in seven subsections including:

- Permit Administration;
- Inspection & Entry;
- Emergency Provisions;
- General Monitoring, Recordkeeping, & Reporting;
- Compliance Certification;
- Truth and Accuracy of Statements and Documents and Treatment of Documents; and
- Applicable When Triggered Requirements.

A discussion of each subsection follows. The requirements in each section are briefly discussed, along with the citations for each requirement. Using the same methodology as the permit, requirements that are not required under the FCAA are indicated by the phrase "STATE/LOCAL ONLY" after the legal citation and are not enforceable by EPA or citizens. Although, in and of itself, Chapter 173-401 WAC is not federally enforceable, the requirements of this regulation are based on federal requirements for the operating permit program. Upon issuance of the original permit for the facility, the terms based on Chapter 173-401 WAC became federally enforceable for the source. These terms will be replaced with the updated terms given in this renewal permit.

NOTE: The filing date for each state and local requirement is also given. The filing date may be important if an earlier version of the requirement is in the State Implementation Plan (SIP). In many instances, a revision may have occurred within a section that does not affect the requirement being cited. If this is the case, the most recent filing date is given, along with the SIP version date in parentheses, and the requirement is federally enforceable. If a change was made in the requirement, both the earlier, SIP approved, requirement and the most recent requirement would go in the permit. The version in the SIP would be federally enforceable, and the more recent version would be enforceable at the state or local level.

If a new rule or a newer version of a rule has been submitted to EPA for inclusion in the SIP and EPA has proposed, but not issued, approval, the permit will be drafted so that when EPA approval does occur, the requirement will become federally enforceable.

Permit Administration
Below are standard terms included in the subsection, Permit Administration. Generally the
language tracks the rule language closely with only minor changes for clarity or conciseness.
There is no intent to alter the effect of the requirement.

1. Federal Enforceability. All permit conditions are federally enforceable unless
specified in the permit as a state or local only requirement. State or local only
requirements are not enforceable by EPA or by citizens. [WAC 173-401-625, 10/4/93]

2. Duty to Comply. The permittee must comply with the terms and conditions of the
permit. [WAC 173-401-620(2)(a), 10/4/93]

3. Schedule of Compliance. The permittee must continue to comply with all applicable
requirements and must comply with new requirements on a timely basis. [WAC 173-
401-630(3), 10/4/93]

4. Need to Halt or Reduce Activity Not a Defense. The permittee cannot use the fact
that it would have been necessary to halt or reduce an activity as a defense in an
enforcement action. [WAC 173-401-620(2)(b), 10/4/93]

5. Permit Actions. This term discusses modification, revocation, reopening, and/or
reissuance of the permit for cause. If SRSWS files a request to modify, revoke, reissue,
or terminate the permit, the request does not stay any permit condition, nor does
notification of planned changes or anticipated noncompliance. [WAC 173-401-
620(2)(c), 10/4/93]

6. Reopening for Cause. This term lists instances when the permit must be reopened
and revised, including times when additional requirements become applicable, when the
permit contains mistakes, or when revision or revocation is necessary to assure
compliance with applicable requirements. [WAC 173-401-730, 10/4/93]

7. Emissions Trading. No permit revision will be required, under any approved,
economic incentives, marketable permits, emissions trading, and other similar programs
or processes, for changes that are provided for in the permit. [WAC 173-401-620(2)(g),
10/4/93]

8. Property Rights. The permit does not convey any property rights of any sort, or any
exclusive privilege. [WAC 173-401-620(2)(d), 10/4/93]

9. Duty to Provide Information. The permittee must furnish, within a reasonable time to
SRCAA, any information, including records required in the permit, that is requested in
writing to determine whether cause exists for modifying, revoking and reissuing, or
terminating the permit or to determine compliance with the permit. [WAC 173-401-
620(2)(e), 10/4/93]
10. Duty to Supplement or Correct Application. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, must promptly submit such supplementary facts or corrected information. The permittee must also provide information as necessary to address any new requirements that become applicable after the date a complete application has been filed but prior to the release of a draft permit. [WAC 173-401-500(6), 9/16/02]

11. Permit Fees. The permittee must pay fees as a condition of this permit in accordance with SRCAA’s fee schedule. [WAC 173-401-620(2)(f), 10/4/93]

12. Severability. If any provision of the permit is held to be invalid, all unaffected provisions of the permit will remain in effect and enforceable. [WAC 173-401-620(2)(h), 10/4/93]

13. Permit Appeals. The permit or any conditions in it may be appealed only by filing an appeal with the pollution control hearings board and serving it on SRCAA within thirty days of receipt pursuant to RCW 43.21B.310. This provision for appeal is separate from and additional to any federal rights to petition and review under §505(b) of the FCAA, including petitions filed pursuant to 40 CFR 70.8(c) and 70.8(d). [WAC 173-401-620(2)(i)] [WAC 173-401-735(1), 4/2/97]

14. Permit Renewal and Expiration. The permit is in effect for five years. The permittee's right to operate this source terminates with the expiration of the permit unless a timely and complete application for renewal is submitted. Chapter 173-401-710(1) allows SRCAA to set, in the permit, the due date for the renewal as long as it is no more than 18 months and no less than six months prior to expiration of the permit. SRCAA specifies in the permit that the renewal must be submitted no more than 18 months and no less than 12 months prior to the permit expiration. The facility may continue to operate subject to final action by SRCAA on the application, as long as a timely and complete application has been filed and all requested additional information necessary to process the permit is submitted by the deadline specified in writing by SRCAA. [WAC 173-401-610, 10/4/93] [WAC 173-401-705, 10/4/93] [WAC 173-401-710(1) & 3, 9/16/02]

15. Permit Continuation. The permit will not expire until the renewal permit has been issued or denied if a timely and complete application has been submitted. [WAC 173-401-620(2)(j), 10/4/93]

16. Permit Shield. Compliance with a permit condition is deemed compliance with the applicable requirements identified in the permit upon which that condition is based, as of the date of permit issuance except that this shield will not affect the following:

a. The provisions of Section 303 of the FCAA (emergency orders), including the authority of the Administrator under that section;
b. The liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance;

c. The ability of EPA to obtain information from the permittee pursuant to Section 114 of the FCAA;

d. The ability of SRCAA to establish or revise requirements for the use of reasonably available control technology (RACT) as provided in Chapter 252, Laws of 1993.

[WAC 173-401-640(1) & (4), 10/4/93]

(See PERMIT SHIELD Section for requirements that have been deemed inapplicable to this facility.)

**Inspection and Entry**
This subsection of the permit contains requirements for allowing authorized access to a facility for purposes of assuring/determining compliance with air quality requirements. Generally the language tracks the rule language closely with only minor changes for clarity and conciseness. There is no intent to alter the effect of the requirements.

17. Inspection and Entry. No person shall obstruct, hamper, or interfere with any authorized representative of SRCAA who requests entry for the purpose of inspection, and who presents appropriate credential; nor shall any person obstruct, hamper or interfere with any such inspection. Unannounced inspections by local, state, and federal air pollution control agencies may occur, whereby, no more than 10 minutes are allowed for the permittee to provide an escort. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow SRCAA, or an authorized representative, to perform the following:

a. Enter upon the permittee’s premises where a chapter 401 source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), or operations regulated or required under this permit;

d. Enter the facility premises at reasonable times to inspect equipment and/or records specific to the control, recovery, or release of contaminants into the atmosphere, in accordance with SRCAA Regulation I, Article II and RCW 70.94.200; and

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e. As authorized by WAC 173-400-105 and the FCAA, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements.

[WAC 173-401-630(2), 10/4/93] [RCW 70.94.200, 1998 - STATE/LOCAL ONLY]

Nothing in this condition shall limit the ability of EPA to inspect or enter the premises of the permittee under Section 114 of the FCAA.  [WAC 173-401-640(4)(d), 10/4/93]

Failure to allow access to the facility is grounds for revocation of PSD approval #PSD-88-1B [PSD-88-1B, Condition 33, 9/1/89 as revised on 2/9/96]

**Emergency Provisions**

Below are standard terms that are included in the subsection, Emergency Provisions. This subsection of the permit contains provisions, governing emergencies and the treatment of periods of emissions in excess of applicable standards, when such emissions stem from unforeseeable events or arise from start-up, shutdown or maintenance, where design or operational practices could not preclude such emissions. Generally, the language tracks the rule language closely, with only minor changes for clarity or conciseness. There is no intent to alter the effect of the requirements.

Because SRSWS has emergency provisions that are in addition to those that apply to other SRCAA air operating permit sources, there are conditions in the section that do not appear in other source’s permits.

18. Emergency Plan. The permittee must meet the following:

a. The permittee must develop a solid waste emergency plan, containing, at a minimum, the elements listed in SRCAA Order #98-01, Condition 1. The plan may be an appendix to a more comprehensive plan addressing issues beyond operation of the waste-to energy plant during an emergency or may be a stand-alone document. Similarly, the plan may be developed as a stand-alone document and later incorporated into a more comprehensive plan; [SRCAA Order #98-01, Condition 1, 4/22/98]

b. Once approved, the plan must be followed. Any changes to the plan must be submitted to SRCAA prior to implementing the change(s). If SRCAA does not object to the changes within 3 working days of receipt or if SRCAA approves the changes within less than 7 working days (whichever comes first), the changes
may be implemented; [SRCAA Order #98-01, Condition 2, 4/22/98]

c. The official in charge of a regional emergency (i.e., the person in charge of all areas of the emergency) can override any part of the emergency plan required under this order, if deemed necessary to effectively respond to an emergency. Notification of such a decision must be made consistent with SRCAA Order #98-01, Condition 1.b, i.e., if the decision results in contravention of applicable air quality requirements under the Federal Clean Air Act, as defined in Chapter 173-400 WAC (9/13/96), or Chapter 70.94 RCW (1997); and [SRCAA Order #98-01, Condition 3, 4/22/98]

d. During a declared emergency, SRCAA will identify and make available an agency individual with authority to act for SRCAA. [SRCAA Order #98-01, Condition 4, 4/22/98]

19. Emergencies. An emergency, as defined in WAC 173-401-645(1), constitutes an affirmative defense to an enforcement action for non-compliance with a technology-based emission limitation if all the conditions of WAC 173-401-645(3) and (4) are met and the permittee submits notification of the emergency to SRCAA in accordance with Condition 32-Prompt Reporting of Deviations and submits a report in accordance with Condition 25-Emergency, Excess Emissions, Upset Conditions and/or Breakdown Reports below.

This provision is in addition to the affirmative defense for unavoidable excess emissions found in Condition 20-Excess Emissions and Condition 21-Report of Breakdown below. [WAC 173-401-645, 10/4/93] [WAC 173-401-615(3)(b), 9/16/02]

20. Excess Emissions. If excess emissions due to startup or shutdown conditions, scheduled maintenance, or upsets are determined to be unavoidable under the procedures and criteria in WAC 173-400-107 (until the effective date of EPA's incorporation of WAC 173-400-108 and 173-400-109 into the Washington implementation plan) or WAC 173-400-108 and WAC 173-400-109 (on and after the effective date of EPA's incorporation of WAC 173-400-108 and 173-400-109 into the Washington state implementation plan), such emissions are violations of the applicable statute, regulation, permit, or regulatory order but are not subject to penalty. The permittee shall submit a notification of the excess emissions in accordance with 32-Prompt Reporting of Deviations below, and upon request by SRCAA, submit a report in accordance with Condition 25-Emergency, Excess Emissions, Upset Conditions and/or Breakdown Reports below. [WAC 173-400-107, 108, 109, 3/1/11] [WAC 173-401-615(3)(b), 9/16/02]

If upon reviewing the available information, SRCAA determines that continued operation of any emissions unit is likely to cause a significant risk to the public, it may order an immediate shutdown of the emissions unit. [WAC 173-434-190(2), 12/22/03] [PSD-88-
21. Report of Breakdown for State/Local Only Requirements in SRCAA Regulation I. If pollutants are emitted in excess of the limits established by SRCAA Regulation I as a direct result of unavoidable upset conditions or unavoidable and unforeseeable breakdown of equipment or control apparatus, SRCAA may excuse the permittee from penalties if the permittee submits a notification of the breakdown in accordance with Condition 32 below and upon request by SRCAA's control officer, submits a report in accordance with Condition 25-Emergency, Excess Emissions, Upset Conditions and/or Breakdown Reports.

The control officer, upon receipt of a report from the permittee describing a breakdown, may:

a. Allow operation exempt from penalties, but only for a limited time period, after which the permittee will be required to comply with SRCAA Regulation I or be subject to the penalties in SRCAA Regulation I, Section 2.11. Such an exemption may be withdrawn if the exempt operation becomes a cause of complaints; or

b. Require that the permittee curtail or cease operations until repairs are completed if the quantity of pollutants or the nature of the pollutants could cause damage.

Note: This provision does not provide relief against federally enforceable applicable requirements. [SRCAA Regulation I, Section 6.08, 3/4/04- STATE/LOCAL ONLY]

22. Response to Breakdown or Upset Condition. During any breakdown or upset condition, the permittee shall promptly take corrective actions to minimize emissions to the maximum extent practical in accordance with the site specific operating manual required under Condition 57. [NOC #170, Condition D.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11, & 11/28/12]

23. Monitoring System Malfunctions. The permittee may be temporarily exempted from monitoring and reporting requirements during periods of monitoring system malfunctions, provided the permittee can demonstrate that the malfunction was unavoidable and repaired as expeditiously as practicable.

Each condition in Section II.F – MONITORING, RECORDKEEPING, & REPORTING REQUIREMENTS to which this condition applies shall clearly indicate that this monitoring system malfunction provision applies. [WAC 173-401-615(1) & (2), 9/16/02]

It should be noted that the original AOP for the facility, issued by SRCAA on July 23, 2001, contained a provision in the Standard Terms and Conditions (Condition 39 in
original permit) which contained minimum data recovery requirements for monitoring data required to be collected under the permit. However, this standard term has been removed from the renewed permit because EPA informed SRCAA that a broad data recovery requirement should not be placed on all monitoring terms in the permit, which could potentially reduce the stringency of a federal requirement in the permit. EPA’s position is that SRCAA does not have the authority to alter any federal requirement to collect and/or recover monitoring data. EPA recommended that SRCAA either place specific data recovery requirements into each specific non-federal monitoring requirement or specify which specific non-federal requirements would be covered by a general data recovery condition. SRCAA has elected to alter the data recovery requirements to excuse the permittee from specific non-federal monitoring and reporting requirements during periods of monitoring system malfunctions. The specific conditions to which this condition applies clearly indicate that this monitoring system malfunction provision applies.

24. Corrective Actions for Excess Emissions. In the event that monitoring or test data show that the emissions from the facility exceed any emission limitation of the approval of NOC #170, the permittee must take immediate corrective action to bring the plant’s emissions within that limitation. Emissions in excess of those allowed will be cause for SRCAA to order an immediate reduction in fuel feed rate or to take other appropriate abatement action. Excess emissions indicated by the continuous emission monitoring system will be construed as a basis for a violation unless the continuous emission monitoring system is found to be producing erroneous data. [NOC #170, Condition G.1, 3/3/88 as modified on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11, & 11/28/12]

25. Emergency, Excess Emissions, Upset Conditions and/or Breakdown Reports. In the event of emergencies, excess emissions, upset conditions, and/or breakdowns (see Conditions 19, 20, & 21 above), if requested by SRCAA, or if required under an applicable requirement, the permittee must submit a full written report including:

a. Date, time, and duration of the event,

b. Known causes of the event;

c. Records documenting the permittee’s actions in response to the excess emissions event;

d. Steps taken to repair the breakdown, if applicable, including a schedule to complete the repairs;

e. Corrective actions taken, including preventative measures to be taken to minimize or eliminate the chance of recurrence;

f. Information on whether emission monitoring and pollution control systems were operating at the time of the exceedance. If either or both systems were not
operating, information on the cause and duration of the outage; and

g. All additional information required under WAC 173-400-107 (until the effective date of EPA's incorporation of WAC 173-400-108 and 173-400-109 into the Washington state implementation plan) or WAC 173-400-109 (on and after the effective date of EPA's incorporation of WAC 173-400-108 and 173-400-109 into the Washington state implementation plan) supporting the claim that the excess emissions were unavoidable.

[WAC 173-401-615(3)(b), 9/16/02] [WAC 173-400-107, 108, 109, 3/1/11] [SRCAA Regulation I, Section 6.08, 3/4/04 – STATE/LOCAL ONLY] [PSD-88-1B, Condition 28, 9/1/89 as revised on 2/9/96]

General Monitoring, Recordkeeping, & Reporting
Below are standard terms included in the subsection, General Monitoring, Recordkeeping, & Reporting. This subsection contains general requirements for monitoring, recordkeeping, and reporting. Monitoring, recordkeeping, & reporting requirements (MRRR) that apply to specific emission standards or specific emission activities are located in the second section of the permit. Generally, the language tracks the rule language closely, with only minor changes for clarity or conciseness. There is no intent to alter the effect of the requirements. However, in the terms, Monitoring Reports and Data Recovery, attempts have been made to clarify SRCAA's expectation of how the requirements will be met. The discussions below provide more detail on these efforts and the regulatory authority relied upon to establish the terms.

Because SRSWS has some general monitoring, recordkeeping, and reporting provisions that are in addition to those that apply to other SRCAA air operating permit sources, there are conditions in the section that do not appear in other source’s permits.

26. Records of Required Monitoring Information. This term details what records must be kept relating to monitoring. [WAC 173-401-615(2)(a), 9/16/02]

27. Permanent Shutdown of an Emission Unit. If an emission unit is permanently shut down, thereby rendering existing permit terms and conditions irrelevant, the permittee is not required, after the shutdown, to meet any monitoring, recordkeeping, and reporting requirements, no longer applicable for that emission unit, once any residual requirements have been met. All records, relating to the shut down emission unit, generated while the emission unit was in operation, must be kept in accordance with Conditions 26-Records of Required Monitoring Information and 29-Retention of Records.

Contemporaneous with the shutdown of the emission unit, the permittee must record the date that operation of the emission unit ceased, using a log or file on site. The shutdown date must be reported to SRCAA on the monitoring report, required under...
Condition 30-Monitoring Reports, covering the period during which the shutdown occurred. [WAC 173-401-725(4)(a), 10/4/93] [WAC 173-401-650(1)(a), 10/4/93]

28. Records of Changes. The permittee must keep records of changes made at the source that result in emissions of a regulated air pollutant, subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from such a change. [WAC 173-401-615(2)(b), 9/16/02]

29. Retention of Records. The permittee must keep monitoring data and support information for a period of five years. [WAC 173-401-615(2)(c), 9/16/02]

30. Monitoring Reports. Unless a shorter time period is specified by this permit, reports of any required monitoring shall be submitted to SRCAA as follows:

- Monitoring report covering the period from January 1 – June 30 each year shall be submitted to SRCAA and postmarked no later than July 30 of the same calendar year; and
- Monitoring report covering the period from July 1 – December 31 each year shall be submitted to SRCAA and postmarked no later than April 15 of the following calendar year.

The reports must be certified as required in Condition 36-Report Submittals. Except that where this permit requires reporting more frequently than once every six months, the responsible official's certification need only be submitted once every six months, covering all required reporting since the date of the last certification. The report must include the following information for the reporting period:

a. A summary of monitoring results;
b. Clear identification of all instances of deviations from permit requirements;
c. Information required to be reported under Conditions 9M and 10M of this permit;
d. A summary of the non-typical wastes received in accordance with Condition 11M of this permit; and
e. Any permanent emission unit shutdowns and 26-Permanent Shutdown of an Emission Unit, respectively.

[WAC 173-401-615(3)(a), 9/16/02], [SRCAA Regulation I, Section 6.17.I, 5/5/07] [WAC 173-401-615(1) & (2), 9/16/02]

31. Reporting of Planned Startups, Shutdowns, Etc. For a planned condition, such as a startup or shutdown, the condition must be reported to SRCAA not less than 24 hours in advance of its occurrence. [WAC 173-434-190(1), 12/22/03] [PSD-88-1B, Condition 28, 9/1/89 as revised on 2/9/96]
32. Prompt Reporting of Deviations. The permittee must promptly report deviations from permit requirements, including those attributable to upset conditions as defined in this permit and excess emissions due to emergencies, breakdowns, startups, shutdowns, malfunctions, and scheduled maintenance. Reports of deviations must include the probable cause of such deviations, and any corrective actions or preventative measure taken. Prompt means reporting according to the shortest time period, which applies to the situation, as listed below:

a. In the case where the deviation represents a potential threat to human health or safety, the deviation shall be reported by phone or facsimile as soon as possible, but no later than 12 hours after the deviation is discovered;

b. In the case where an affirmative defense is sought under Condition 19-Emergencies, Condition 20-Excess Emissions and/or Condition 21-Report of Breakdown for State/Local Only Requirements in SRCAA Regulation I, the deviation shall be reported by phone or facsimile as soon as possible but no later than the end of the next working day; and

c. For all other deviations, as part of the monthly monitoring report, required under Condition 8M, covering the month in which the deviation is discovered.

The permittee shall maintain a contemporaneous record of all deviations.


33. Emission Inventory. The permittee must submit an inventory of emissions from the source each year and must maintain records sufficient to document reported emissions. [WAC 173-400-105(1), 8/20/93] [WAC 173-400-105(1), 11/28/12 – STATE/LOCAL ONLY] [WAC 173-434-200, 12/22/03] [PSD-88-1B, Condition 28, 9/1/89 as revised on 2/9/96] [NOC #1241, Condition 5, 10/8/04 – STATE / LOCAL ONLY]

34. Reporting of Emissions of Greenhouse Gases. The permittee shall comply with the applicable requirements given in Chapter 173-441 WAC related to the reporting of emissions of greenhouse gases. [12/1/10 – STATE/LOCAL ONLY]

35. Notification of Reports. Reports of any facility source testing, ambient air quality monitoring and/or studies relating to air quality other than those specified in the approval of NOC #170 shall be reported to SRCAA in the monthly report covering the month in
which the testing or study occurred, and if requested in writing by SRCAA, submitted within 30 days of receipt of the final report. This requirement includes the capacity, energy recovery and putrescible matter and unburned carbon test required by the operation and maintenance contract. [NOC #170, Condition E.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

36. WAC 173-401-530(1)(a) Insignificant Emission Units. Emissions from units designated insignificant based solely on WAC 173-401-530(1)(a) must remain below threshold levels. Upon request from SRCAA, the permittee must demonstrate that the actual emissions from such a unit or activity are below the applicable emission thresholds. [WAC 173-401-530(6), 9/16/02]

37. Report Submittals. This term provides the address to which reports must be sent and requires all reports to be certified by a responsible official. [WAC 173-401-520, 10/4/93]

38. For compliance with Conditions 83, 84, 87, 88, 89, 90, 91, 92, 110, and 111 of this permit, data from the SO2, NOx, CO, MWC baghouse inlet temperature, and municipal waste combustor unit load level continuous emission monitoring system(s) shall meet the following requirements:

   a. Data Recovery Requirements:
      
      i. Valid hourly averages for SO2, NOx, CO, MWC baghouse inlet and municipal solid waste combustor unit load level shall be obtained for at least 90% of the operating hours per calendar quarter and for 95% of the operating hours per calendar year that each unit is combusting municipal solid waste; and

      ii. When SO2, NOx, or CO emissions data are not obtained because of continuous emissions monitoring system breakdown, repairs, calibration checks, and zero and span adjustments, emissions data shall be obtained by using other monitoring systems as approved by EPA or SRCAA or by RM 19 (for SO2 or NOx) or RM 10 (for CO) to provide, as necessary, for a minimum of 90% of the hours per calendar quarter and 95% of the hours per calendar year that the facility is operated and combusting municipal solid waste.

[SRCAA Regulation I, Section 6.17.H, 5/5/07] [WAC 173-400-105(7), 11/28/12]

Per WAC 173-400-105(7), “all continuous emission monitoring systems (CEMS) required by 40 C.F.R. Parts 60, 61, 62, 63, or 75, or a permitting authority's adoption of those federal standards must meet the continuous emission monitoring systems (CEMS) performance specifications and data recovery requirements imposed by those standards.” Since the facility is required to meet the data recovery requirements imposed by SRCAA Regulation I, Section 6.17 (which is the adoption of the federal

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standards given in 40 CFR 60, Subpart Cb), the data recovery requirements in Subpart Cb (90% of operating hours per calendar quarter and 95% of operating hours per calendar year), apply to the NOC and PSD emission limits for pollutants which require the use of CEMs under Subpart Cb (i.e., NOx, CO, and SO2).

b. Minimum Data Requirements:
   i. At least two data points per hour shall be used to calculate the one-hour arithmetic averages for SO2, NOx, CO, MWC baghouse inlet temperature and municipal solid waste combustor unit load level; and
   ii. Valid continuous emission monitoring system data shall be used in calculating average emissions concentrations and % reductions (if applicable) according to Table 38..

Table 38 Minimum Data Availability Requirements

<table>
<thead>
<tr>
<th>Pollutant / Parameter</th>
<th>Emission Limit Averaging Time</th>
<th>Minimum Data Required for a Valid Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRCAA Regulation I, Section 6.17 Limits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steam Load</td>
<td>4-Hour Block</td>
<td>All valid 1-hour data are used (1) (2)</td>
</tr>
<tr>
<td>Baghouse Temperature</td>
<td>4-Hour Block</td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>4-Hour Block</td>
<td></td>
</tr>
<tr>
<td>SO2 (inlet and outlet)</td>
<td>24-Hour Block Geometric</td>
<td></td>
</tr>
<tr>
<td>SO2 (removal efficiency)</td>
<td>24-Hour Block Geometric</td>
<td></td>
</tr>
<tr>
<td>NOx</td>
<td>24-Hour Block</td>
<td></td>
</tr>
<tr>
<td>Other Permit Limits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>8-Hour Rolling</td>
<td>75% (i.e., there must be at least 6 valid 1-hour blocks within an 8-hour operating period to make a valid 8-hour rolling average) (3)</td>
</tr>
<tr>
<td>CO</td>
<td>4-Hour Block</td>
<td>75% (i.e., there must be at least 3 valid 1-hour blocks within a 4-hour operating period to make a valid 4-hour block average) (3)</td>
</tr>
<tr>
<td>CO</td>
<td>24-Hour Block</td>
<td>75% (i.e., there must be at least 18 valid 1-hour blocks within a 24-hour operating period to make a valid 24-hour block average) (3)</td>
</tr>
<tr>
<td>CO</td>
<td>Ton per year</td>
<td>All valid data</td>
</tr>
<tr>
<td>Parameter</td>
<td>Rolling Period</td>
<td>Valid Data Condition</td>
</tr>
<tr>
<td>---------------------------</td>
<td>----------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>NOx</td>
<td>8-Hour Rolling</td>
<td>75% (i.e., there must be at least 6 valid 1-hour blocks within an 8-hour operating period to make a valid 8-hour rolling average) (3)</td>
</tr>
<tr>
<td>NOx</td>
<td>3-Hour Rolling</td>
<td>75% (i.e., there must be at least 3 valid 1-hour blocks within a 3-hour operating period to make a valid 3-hour rolling average) (3)(4)</td>
</tr>
<tr>
<td>NOx</td>
<td>Ton per year</td>
<td>All valid data</td>
</tr>
<tr>
<td>Superheater Outlet</td>
<td>15-Minute Block</td>
<td>100% (i.e., all 15 1-minute averages must be valid to have a valid 15-minute block average)</td>
</tr>
<tr>
<td>Opacity</td>
<td>6-Minute Block</td>
<td>100% (i.e., all 6 1-minute averages must be valid to have a 6-minute block average) (5)</td>
</tr>
<tr>
<td>SO2</td>
<td>24-Hour Block (Geometric)</td>
<td>75% (i.e., there must be at least 18 valid 1-hour blocks within a 24-hour operating period to make a valid 24-hour rolling average) (3)</td>
</tr>
</tbody>
</table>

(1) A valid 1-hour block is made up of any clock hour when the MWC operates for at least 30 minutes and at least two 15-minute CEM data periods have been collected during MWC operation.

(2) Consequently, in some cases (a startup during the last hour of a block, a shutdown during the first hour of a block, etc…) the block average may consist of only one valid 1-hour block of data.

(3) A 3-, 8- or 24-hour operating period is any consecutive clock hours where the unit operates in each of the 3, 8, or 24 hours, respectively. The 75% required for valid multi-hour averages is the value that has historically been used at the plant in the absence of permit, rule or other requirement specifications.

(4) Because 1-hour block averages are required for calculating multi-hour averages, all three hours are needed for a 3-hour average to achieve the 75% minimum data required (two hours is only 67%).

(5) A valid 1-minute average is made up of six 10-second readings

[SRCAA Regulation I, Section 6.17.H, 5/5/07] [WAC 173-401-615(1) & (2), 9/16/02]

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39. Rendering Device or Method Inaccurate. SRSWS may not render inaccurate any monitoring device or method required under Chapter 70.94 or 70.120 RCW, or any ordinance, resolution, regulation, permit, or order in force pursuant thereto. [WAC 173-400-105(8), 8/20/93] [WAC 173-400-105(8), 11/28/12 – STATE/LOCAL ONLY]

Compliance Certification
As part of SRCAA’s Title V program, sources are required to submit annual compliance certifications. (SRCAA may require more frequent certifications if the source is out of compliance or if an underlying requirement specifies more frequent submittals.) This subsection of the permit addresses the details of these compliance certification submittals, including how often submittals must occur, what the submittals must contain and to whom the certifications must be sent. Generally, the language tracks the rule language closely, with only minor changes for clarity or conciseness. There is no intent to alter the effect of the requirements.

40. Compliance Certification Submittals. This term covers the frequency for submitting compliance certifications. [WAC 173-401-630(5)(a), 10/4/93]

41. Compliance Certification Contents. This term describes what must be included in each compliance certification. [WAC 173-401-630(5)(c), 10/4/93] [WAC 173-401-530(c), 9/16/02]

42. Credible Evidence. For the purpose of submitting compliance certifications or establishing violations, the permittee shall not preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. [40 CFR 60.11(g), 1/12/11] [WAC 173-400-115, 11/28/12]

43. Submittal to EPA. This term requires that certifications be sent to EPA as well as SRCAA. [WAC 173-401-630(5)(d), 10/4/93]

Truth and Accuracy of Statements and Documents and Treatment of Documents
Below are standard terms contained in the subsection, Truth and Accuracy of Statements and Documents and Treatment of Documents. Generally, the language tracks the rule language closely, with only minor changes for clarity or conciseness. There is no intent to alter the effect of the requirements.

44. False Information. SRSWS may not make any false statement, representation, or certification in any form, notice, or report required under Chapter 70.94 or 70.120 RCW or any ordinance, resolution, regulation, permit, or order in force pursuant thereto. In addition, this term prohibits willfully making false statements to SRCAA in any matter within SRCAA’s jurisdiction. [WAC 173-400-105(6), 8/20/93] [WAC 173-400-105(6),

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45. Alteration of Documents. This term prohibits the reproduction or alteration of any document issued by SRCAA, if the purpose of such is to evade or violate any requirement. [SRCAA Regulation I, 2.08.B, 3/4/04 - STATE/LOCAL ONLY]

46. Availability of Documents. Any order required to be obtained by SRCAA Regulation I must be available on the premises designated on the order. [SRCAA Regulation I, 2.08.C, 3/4/04 - STATE/LOCAL ONLY]

47. Posting of Notices. Notices which SRCAA requires to be displayed shall be posted. The permittee may not mutilate, obstruct, or remove any notice unless authorized to do so by the SRCAA. [SRCAA Regulation I, 2.08.D, 3/4/04 - STATE/LOCAL ONLY]

Applicable When Triggered Requirements

The subsection, Applicable When Triggered Requirements, contains requirements that do not apply to the facility unless certain activities at the site trigger the requirement. SRCAA has included these requirements in the permit, either because they are often triggered at sources or are important enough that their inclusion in the permit is warranted. Generally the language tracks the rule language closely with only minor changes for clarity or conciseness. There is no intent to alter the effect of the requirements. However, in the term, Source Testing, language has been added to clarify what an approved test method is, as the rule does not elaborate on what “approved” means. The discussion below provides more detail in regards to this.

Because SRSWS has some provisions that are in addition to those that apply to other SRCAA air operating permit sources, there are conditions in the section that do not appear in other source’s permits.

48. New Source Review. Prior to the establishment of a new source, including modifications, the permittee may be required to file for and obtain approval under SRCAA’s Notice of Construction program. [Chapter 173-400 WAC, 11/28/12 – STATE/LOCAL ONLY] [Chapter 173-460 WAC, 5/20/09 - STATE/LOCAL ONLY] [SRCAA Regulation I, Article V, 5/3/07 - STATE/LOCAL ONLY] [NOC #170, Condition G.6, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

49. Replacement or Substantial Alteration of Existing Control Equipment. Prior to replacing or substantially altering existing control equipment, the permittee shall file and obtain approval under SRCAA’s Notice of Construction program. [WAC 173-400-114, 8/15/01 - STATE/LOCAL ONLY] [SRCAA Regulation I, Article V, 3/4/04 - STATE/LOCAL ONLY]

50. Demolition and Renovation (Asbestos). The permittee must comply with applicable Statement of Basis
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local, state, and federal requirements regarding demolition and renovation. [40 CFR Part 61 Subpart M, 2006] [WAC 173-400-075, 11/28/12] [SRCAA Regulation I, Article IX, 8/5/10 - STATE/LOCAL ONLY]

51. Reasonable Precautions During Construction. The permittee must take reasonable precautions to prevent particulate matter from becoming airborne during construction, alteration, repair or demolition of any building, its appurtenances or a road. Examples of reasonable precautions are provided in Condition 1M.b.i of the permit. [SRCAA Regulation I, Section 6.05.C, 3/4/04(11/12/93)* - see note on page 5]

52. Engine Idling During Construction. During construction, engine idling is not allowed when vehicles are not directly in use. [NOC #170, Condition C.11, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

53. Source Testing. To demonstrate compliance Ecology or SRCAA may conduct or require that a test be conducted using approved methods per WAC 173-400-050, -060, & -105(4). Chapter 173-400 WAC does not elaborate on what “approved” means. Language has been added to this condition to clarify what SRCAA considers “approved”. The condition requires that in order for a method to be approved it must be submitted to SRCAA at least 30 days prior to the test date, or a shorter period of time if indicated in writing by SRCAA, and SRCAA must approve the method in writing. Changes must also be approved by SRCAA in writing. [WAC 173-400-105(4), 8/20/93] [WAC 173-400-105(4), 11/28/12 - STATE/LOCAL ONLY] [WAC 173-401-615(1), 9/16/02] [SRCAA Regulation I, Section 2.09, 2/7/08 – STATE/LOCAL ONLY]

54. Source Testing for Chapter 173-434 WAC. To demonstrate compliance with Chapter 173-434 WAC, the methods and procedures in WAC 173-400-105 shall be used. [WAC 173-434-130(6), 12/22/03] [PSD-88-1B, Condition 28, 9/1/89 as modified on 2/9/96]

55. Special Studies. Ecology or SRCAA may require such additional special studies relevant to process emissions and establish completion dates as it determines necessary. These special studies may include the requirement to conduct studies of dioxin emissions and control measures. [WAC 173-434-210, 9/17/90] [PSD-88-1B, Condition 28, 9/1/89 as modified on 2/9/96]

56. Health Risk & Literature Search. SRCAA may require the permittee to reevaluate the health risk, if there is a significant change in conditions as projected in the health risk assessment or new health data becomes available. SRCAA may periodically request that the permittee conduct a literature search as such new data becomes available. [NOC #170, Condition G.3, 3/3/88 as modified on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

57. Health Effects Studies. If the emission rate of any element or compound listed in

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Condition B.1 of NOC #170 is greater than specified in the application documents listed in Part I of NOC #170, the SRCAA Director may require that the permittee conduct health effects studies based upon the most current emission data available. [NOC #170, Condition B.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

58. Providing Additional Emissions Data. The permittee must furnish, upon request by Ecology or SRCAA, data required to evaluate the incinerators’ emissions or emissions control program. [WAC 173-434-170(4), 12/22/03] [PSD-88-1B, Condition 28, 9/1/89 as revised on 2/9/96]

EMISSION LIMITATIONS & MONITORING, RECORDKEEPING & REPORTING
This section contains emission limitations and emission related requirements, including general requirements for the facility. The section is divided into several subsections. The first subsection lists limitations that apply facility-wide. Subsequent subsections focus on individual emission units or classes of similar emission units. As in all other sections of the permit, requirements that are not required under the FCAA are indicated by the phrase "STATE/LOCAL ONLY" after the legal citation and are not enforceable by EPA or citizens.

This section of the permit is formatted differently from the STANDARD TERMS AND CONDITIONS section. Requirements are presented in tables. The actual requirement is given in the third column of the emission limitation tables. The regulatory basis for the applicable requirement is listed in the second column of the tables. The averaging time and reference test method, used to determine compliance with the requirements, are listed in the fourth and fifth columns, if applicable. The monitoring, recordkeeping, and reporting requirements (MRRR) used to determine compliance with the requirement are listed in the last column of the emission limitation tables.

The MRRR are enforceable and are given in the last subsection of the permit. It should be noted that while a violation of a MRRR is a violation of the permit, it is not necessarily a violation of the underlying emission limitation.

For SRSWS, this section contains six subsections:

   FACILITY-WIDE EMISSION LIMITATIONS; and
   MUNICIPAL WASTE COMBUSTORS EMISSION LIMITATIONS;
   MISCELLANEOUS UNITS EMISSION LIMITATIONS
   FUGITIVE EMISSION LIMITATIONS
   DESIGN PARAMETER REQUIREMENTS; and
   MONITORING, RECORDKEEPING, & REPORTING REQUIREMENTS.

If an applicable requirement does not include sufficient monitoring, recordkeeping, and reporting to satisfy WAC 173-401-615(1) & (2), the permit will establish adequate monitoring,
recordkeeping and reporting. This is known as gapfilling. Applicable requirements for which gapfilling is proposed can be identified by the note, following the MRRR citation, indicating that at least a portion of the MRRR is from gapfilling.

If the permit condition is a streamlined condition, as found in the third section of the permit, III. STREAMLINED REQUIREMENTS, a reference to the streamlined condition is made (e.g., Condition 1S, 2S, etc…). In this document, the streamlined conditions will be discussed in the next section. The discussion will include information on how the streamlined condition is at least as stringent as all of the underlying requirements, in accordance with EPA’s guidance on streamlining¹.

**Facility-wide Emission Limitations**

This subsection contains applicable emission limitations which apply facility-wide. These emission limitations are applicable to all significant and insignificant emission units at the facility. However, monitoring, recordkeeping, and reporting requirements are not required for the insignificant emission units because SRCAA has determined that they are not necessary to assure compliance with facility-wide emission limitations. SRSWS is required to certify compliance with the facility-wide emission limitations for insignificant emission units.

The following requirements are included in this section.

**Condition 59:** The permittee shall meet the operation and maintenance requirements given in Condition 1S of this permit. [Condition 1S of this permit, see Section III. STREAMLINED REQUIREMENTS]

**MRRR:** SRSWS is required to keep records showing the names of persons who have completed a review of the operating manuals as required in Condition 1S of this permit including the date of the initial review and subsequent annual reviews. [NOC #170, Conditions D.12, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

**Condition 60:** All emission units are required to use reasonably available control technology, in accordance with WAC 173-400-040 – STATE/LOCAL ONLY [WAC 173-400-040, 8/20/93] [WAC 173-400-040, 3/1/11 – STATE/LOCAL ONLY]

**MRRR:** No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Condition 61:** Visible emissions from any emission unit, except for the MWCs, shall not exceed

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¹ USEPA Guidance, titled “White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program”, from Lydia N. Wegman, Deputy Director of the Office of Air Quality Planning and Standards, dated March 5, 1996.
20% for an aggregate of more than three minutes, in any one hour, except as otherwise allowed in WAC 173-400-040(2), as determined using ECOLOGY Method 9A (September 20, 2004). In addition, except for the MWCs, visible emissions from any emission unit shall not be greater than 0% for more than six minutes in any one-hour period, as determined using RM 22. [Condition 3S of this permit, see Section III. STREAMLINED REQUIREMENTS]

**MRRR:**

Except for the municipal waste combustor units covered under Section II.B, and the ash handling system scrubber covered under Section II.C, all emission units to which this requirement applies are insignificant emission units. SRCAA has determined that no MRRR is required for the insignificant emission units. The MRRR included with this condition applies only to the ash handling system scrubber. See Conditions 81 and 82 in Section II.B for the streamlined opacity requirements that apply to the MWCs.

Particulate emissions from the ash handling system should be low because all ash conveying systems are enclosed and NOC #170 requires that the ash be wetted sufficiently to prevent fugitive emissions during handling. In addition, the facility has never had a problem meeting the opacity or visible emission limits in the past. Finally, the ash handling system scrubber provides additional assurance that the opacity and visible emission limits are met.

To ensure that the scrubber is kept in proper working order, SRSWS is required to implement an operation and maintenance plan which includes a schedule for maintaining the blower bearings, drive, and motor; periodic checks of the irrigation system and piping; daily checks of the pressure drop across the scrubber section to ensure that they are within the normal operating range of 6-10" w.c.; and periodic checks of the mist eliminator to make sure there is no pluggage. The periodic checks shall be done at least at frequently as recommended by the manufacturer. Maintenance records shall be kept for the previous 5 years of operation. [NOC #934, Condition 5, 10/27/00 as revised on 4/10/06 and 4/14/06 – STATE/LOCAL ONLY]

Condition 62: Visible Emissions shall not equal or exceed 20%, as specified in SRCAA Regulation I, 6.02 - STATE/LOCAL ONLY [SRCAA Regulation I, 6.02, 3/4/04-STATE/LOCAL ONLY]

**MRRR:**

Except for the municipal waste combustor units covered under Section II.B, and the ash handling system scrubber covered under Section II.C, all emission units to which this requirement applies are insignificant emission units. SRCAA has determined that no MRRR is required for the insignificant emission units. The MRRR included with this condition applies only to the ash handling system scrubber. See Conditions 81 and 82 in Section II.B for the streamlined opacity requirements that apply to the MWCs.
Particulate emissions from the ash handling system should be low because NOC #170 requires that the ash be wetted sufficiently to prevent fugitive emissions during handling. In addition, the facility has never had a problem meeting the opacity limit in the past. Therefore, if the ash handling system scrubber is kept in proper working order, the facility should be able to meet the opacity limit.

To ensure that the scrubber is kept in proper working order, SRSWS is required to implement an operation and maintenance plan, as described in the MRRR associated with Condition 61. [NOC #934, Condition 5, 10/27/00, as revised on 4/10/06 and 4/14/06 – STATE/LOCAL ONLY]

Condition 63: There shall be no visible emissions from any location other than the baghouse stacks, ash conditioner baghouse stack or lime storage bin at any time. [NOC #170, Condition C.8, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

MRRR: All emission units to which this requirement applies are insignificant emission units. SRCAA has determined that no MRRR is required for insignificant emission units.

Condition 64: No person shall cause or permit the emission of particulate matter from any source to be deposited beyond the property under direct control of the owner or operator of the source in sufficient quantity to interfere unreasonably with the use and enjoyment of the property upon which the material is deposited or to interfere unreasonably with the use and enjoyment of the property upon which the material is deposited. [WAC 173-400-040(3), 3/1/11 - STATE/LOCAL ONLY] [SRCAA Regulation I, 6.05.A, 3/4/04(11/12/93)]

MRRR: The permittee is required to investigate any complaints that it may receive regarding particulate matter fallout. If problems are found, corrective action must be taken. Records of each complaint received, along with the results of the subsequent investigation, must be kept. [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 65: Reasonable precautions must be taken to:

a. Prevent PM from becoming airborne when constructing, altering, repairing, or demolishing buildings, appurtenances, and roads;

b. Prevent tracking of PM onto paved roadways open to the public;

c. Prevent the release of air contaminants, as specific in WAC 173-400-040(4)(a), if located in an attainment area and not impacting a NAA;

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d. Prevent PM from becoming airborne when handling, transporting, and/or storing PM; and

e. Prevent fugitive dust from becoming airborne and source must be maintained and operated to minimize emissions.

Examples of reasonable precautions are provided in Condition 1M.

\[\text{Condition 66:} \quad \text{Recognized good practices and procedures must be used to reduce odors to a reasonable minimum, in accordance with WAC 173-400-040(5) – STATE/LOCAL ONLY [WAC 173-400-040(5), 3/1/11 – STATE/LOCAL ONLY]}

\[\text{MRRR:} \quad \text{The permittee is required to investigate any complaints that it may receive regarding odors. If problems are found, corrective action must be taken. Records of each complaint received, along with the results of the subsequent investigation, must be kept. [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.}

\[\text{While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this requirement will be met, as it addresses several potential sources of particulate matter fallout and fugitive emissions and it requires a section on how the facility will keep roadways free of visible dust.}

\[\text{Condition 67:} \quad \text{It shall be unlawful for any person to cause or allow the emission of any air} \]
contaminant in sufficient quantities and of such characteristics and duration as is, or is likely to be:

a. Injurious to the health and safety of human, animal or plant life;

b. Injurious or cause damage to property; or

c. Which unreasonably interferes with enjoyment of life and property.

Compliance with this requirement shall be determined per the provisions given in SRCAA Regulation I, Section 6.04 (4/2/10) [SRCAA Regulation I, Section 6.04, 4/2/10- STATE/LOCAL ONLY]

MRRR: The monitoring is the same as for Condition 66 which also pertains to odors. [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 68: Solid waste shall not be stored outside in a manner that causes offensive odors beyond the property line or that causes particulate matter deposition beyond the property line. [NOC #170, Condition C.12, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 69: No person shall cause or permit the emission of any air contaminant from any source if it is detrimental to the health, safety, or welfare of any person, or causes damage to property or business - STATE/LOCAL ONLY [WAC 173-400-040(6), 3/1/11(8/20/93)] [SRCAA Regulation I, 6.06.A, 3/4/04- STATE/LOCAL ONLY]

MRRR: Because of the numerous emission limits placed on this facility, no ongoing monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 70: No person shall cause or permit the installation or use of any means which conceals or masks an emission of an air contaminant which would otherwise violate any provisions of Chapter 173-400 WAC - STATE/LOCAL ONLY [WAC 173-400-040(8), 3/1/11(8/20/93)] [SRCAA Regulation I, 6.07.A, 3/4/04- STATE/LOCAL ONLY]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable
inquiry to determine if this requirement was met during the reporting period.

**Condition 71:** The permittee shall not build, erect, install, or use any article, machine, equipment, or process which conceals an emission which would otherwise violate an applicable standard under 40 CFR Part 60. [40 CFR § 60.12, 2006] [PSD-88-1B, Condition 28,

**MRRR:** No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Condition 72:** Particulate matter emissions from combustion and incineration units shall not exceed 0.1 gr/dscf, corrected to 7% oxygen, as specified in WAC 173-400-050(1) & WAC 173-400-050(3). NOTE: The exception in WAC 173-400-050(3) is STATE/LOCAL ONLY. This exception allows for an alternate correction to measured concentrations (other than 7% oxygen) if determined by SRCAA to be representative of normal operations. [WAC 173-400-050(1) & WAC 173-400-050(3), 11/28/12 (2/19/91)]

**MRRR:** Except for the emission units covered under Section II.B of the permit, all emission units to which this requirement applies are insignificant emission units. SRCAA has determined that no MRRR is required for insignificant emission units. Section II.B contains MRRR for the significant emission units to which this requirement applies. (See Condition 79.)

**Condition 73:** Particulate matter emissions from general process units shall not exceed 0.1 gr/dscf, as specified in WAC 173-400-060 [WAC 173-400-060, 2/19/91] [WAC 173-400-060, 1/10/05 – STATE/LOCAL ONLY]

**MRRR:** Except for the ash handling system scrubber covered under Section II.C, all emission units to which this requirement applies are insignificant emission units. SRCAA has determined that no MRRR is required for the insignificant emission units. The MRRR included with this condition applies only to the ash handling system scrubber.

Particulate emissions from the ash handling system should be low because NOC #170 requires that the ash be wetted sufficiently to prevent fugitive emissions during handling. Therefore, if the ash handling system scrubber is kept in proper working order, the facility should be able to meet the grain loading limit.

The monitoring for the ash handling system scrubber is the same as for Condition 61 (visible emission standard that applies to the ash handling system scrubber) which requires the permittee to develop and implement and operation.
and maintenance plan for the scrubber. [NOC #934, Condition 5, 10/27/00, as revised on 4/10/06 and 4/14/06 – STATE/LOCAL ONLY]

Condition 74: SO2 emissions from each unit shall not exceed 1000 ppm on a dry basis, corrected to 7% oxygen, as specified in WAC 173-400-040(7). NOTE: The second paragraph of WAC 173-400-040(7), 3/1/11(8/20/93) is STATE/LOCAL ONLY [WAC 173-400-040(7), 3/1/11(8/20/93)]

MRRR: Except for the municipal combustor units covered under Section II.B of the permit, all emission units to which this requirement applies are insignificant emission units. SRCAA has determined that MRRR is not required for insignificant emission units. Section II.B contains MRRR for the significant emission units to which this requirement applies. (See Condition 83.)

Condition 75: Handling and use of ozone-depleting substances must be in accord with 40 CFR Part 82. [40 CFR Part 82, 2006]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 76: No outdoor burning, except as allowed under Chapter 173-425 WAC and/or SRCAA Regulation I, 6.01 [Chapter 173-425 WAC, 3/13/00(10/18/90)] [SRCAA Regulation I, 6.01, 11/6/08 - STATE/LOCAL ONLY]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.


MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

There are several air quality requirements (e.g., in the NOC, PSD, etc...) that are either one-time facility-wide requirements that have been fulfilled, that were included for informational purposes only, or for some other reason no longer apply. These conditions are listed below and are not included in SRSWS’s operating permit.

<table>
<thead>
<tr>
<th>Citation</th>
<th>Description</th>
<th>Reason not included in the permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSD-88-1B, Condition 29.</td>
<td>These conditions require the permittee to conduct an ambient</td>
<td>This is a one-time condition that has been met.</td>
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### Municipal Waste Combustors Emission Limitations

This subsection of the permit contains applicable emission limitations applying to the two municipal waste combustors (MWCs). The following requirements are included in this subsection.

**Condition 78:** The standards under SRCAA Regulation I, Section 6.17 (i.e., Conditions 80, 82, 84, 86, 89, 90, 97, 99, 100, 101, 111, and 112) apply at all times except during periods of startup, shutdown, and malfunction. Duration of startup, shutdown, or malfunction periods are limited to 3 hours per occurrence, except as provided in paragraph (a)(1)(iii) of 40 CFR 60.58b. During periods of startup, shutdown, or malfunction, monitoring data shall be dismissed or excluded from compliance calculations, but shall be recorded and reported in accordance with Conditions 7M.f.v and 9M.a.v. [SRCAA Regulation I, Section 6.17.H, 5/5/07]

**MRRR:** No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Condition 79:** Emissions from each MWC shall not exceed the following:

- a. Total particulate matter emissions, as measured using EPA Method 5, including front and back half analysis, but excluding sulfates, chlorides, and ammonium salts, shall not exceed 34 tons per year;

- b. Total particulate matter emissions, as measured using EPA Method 5, including front and back half analysis, but excluding sulfates, chlorides, and ammonium salts, shall not exceed 0.020 gr/dscf, corrected to 7% oxygen;

- c. Total PM10 emissions, as measured using Ecology Method 19 or EPA Method 5, shall not exceed 0.015 gr/dscf, corrected to 7% oxygen; and

<table>
<thead>
<tr>
<th>Citation</th>
<th>Description</th>
<th>Reason not included in the permit</th>
</tr>
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<tbody>
<tr>
<td>9/1/89 as revised on 2/9/96</td>
<td>monitoring program.</td>
<td></td>
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<tr>
<td>PSD-88-1B, Condition 30, 9/1/89 as revised on 2/9/96</td>
<td>This condition voids the PSD approval if construction is not begun within a certain timeframe.</td>
<td>Construction was begun within the allowed timeframe. This requirement no longer applies.</td>
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<td>PSD-88-1B, Condition 32, 9/1/89 as revised on 2/9/96</td>
<td>Notification of startup</td>
<td>This is a one-time condition that has been met.</td>
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<tr>
<td>NOC #170, Condition G.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11, &amp; 11/28/12</td>
<td>This condition states that the conditions of the NOC are severable.</td>
<td>This condition is for informational purposes only.</td>
</tr>
</tbody>
</table>
d. Total PM10 emissions, as measured using Ecology Method 19 or EPA Method 5, shall not exceed 23 tons per year.

[Condition 4S of this permit, see Section III. STREAMLINED REQUIREMENTS]

MRRR: The MWC emission units have particulate emission limits that are subject to 40 CFR Part 64 – Compliance Assurance Monitoring (CAM). Per 64.2, the requirements of 40 CFR Part 64 apply to a pollutant-specific emissions units (PSEU) at a major source that is required to obtain a Part 70 permit if the unit satisfies all of the following criteria:

1. The PSEU must have pre-controlled emissions of the applicable pollutant which exceeds the major source thresholds established in WAC 173-401-200(17). In the case of the MWC emission units, SRSWS has estimated the pre-controlled PTE of particulate matter to be 2,239 tpy per MWC. This exceeds the major source threshold of 100 tpy, established in WAC 173-401-200(17).

2. The PSEU must utilize air pollution control equipment to reduce emissions of the applicable pollutant to a level that meets the established emission limit(s). In the case of the MWCs, the particulate emissions of the PSEU are controlled by a pulse-jet baghouse. It is not possible for the MWC to by-pass the baghouse. Therefore, CAM does not need to address the potential for bypass.

3. The PSEU must be subject to an emission limit for the applicable pollutant. In the case of the MWCs, the PSEU is subject to the following particulate emission limits:

- Total particulate matter emissions, as measured using EPA Method 5, including front and back half analysis, but excluding sulfates, chlorides, and ammonium salts, shall not exceed 34 tons per year;

- Total particulate matter emissions, as measured using EPA Method 5, including front and back half analysis, but excluding sulfates, chlorides, and ammonium salts, shall not exceed 0.020 gr/dscf, corrected to 7% oxygen;

- Total PM10 emissions, as measured using Ecology Method 19 or EPA Method 5, shall not exceed 0.015 gr/dscf, corrected to 7% oxygen;

- Total PM10 emissions, as measured using Ecology Method 19, shall not exceed 23 tons per year; and
The particulate limits listed above are required in Conditions 79 and 80 (see Condition 4S of Section III. STREAMLINED REQUIREMENTS for discussion of streamlining of particulate emission standards):

* The 25 mg/dscm, corrected to 7% O2 oxygen for total particulate matter, (emission limit given in Condition 80) is considered exempt from CAM, per 64.2( b)(1)(i), because 40 CFR 60, Subpart Cb (as implemented in SRCAA Regulation I, Section 6.17) was proposed after November 15, 1990 pursuant to Section 111 and 112 of the Clean Air Act. Therefore, Subpart Cb emission limits have sufficient monitoring and are not subject to CAM.

For emission units subject to CAM, if the post-controlled particulate PTE is estimated to be more than 100 tons per year, the unit is considered a large emissions unit. For large emissions units, data collection frequency must be at least 4 times per hour. The post-controlled PTE of particulate matter from each MWC is 34 tons per year, based on the annual PM limit contained in the PSD permit for SRSWS. Therefore, each MWC is not considered to be a large emissions unit, since post-controlled particulate PTE are less than 100 tons per year. Per 40 CFR 64.3(b)(iii), the frequency of data collection may be less frequent than 4 times per hour, but must include some data collection at least once per 24-hour period.

SRSWS has proposed to use the monitoring contained in 40 CFR 60, Subpart Cb (as implemented in SRCAA Regulation I, Section 6.17) to meet the CAM requirements for the streamlined particulate standards that apply to the MWCs.

In a letter dated July 7, 1999, EPA responded to an inquiry posed by a facility as to whether using the monitoring contained in 40 CFR 60, Subparts Eb and Cb could be used to satisfy Title V periodic monitoring (40 CFR Part 70) or compliance assurance monitoring (40 CFR Part 64) requirements for other applicable requirements under existing air pollution regulations, such as State implementation plans (SIPs). Per the July 7, 1999 letter from Steven Hitte of EPA to Ms. Maria Zannes of Integrated Waste Services Association, “the monitoring requirements in subpart Eb are rigorous and specify use of continuous monitoring systems for opacity, for emissions of acid gases, organic gases, and nitrogen oxides, and for operational parameters that serve as surrogates for monitoring compliance with particulate matter, dioxins and furans, and metals emissions limits.” The monitoring requirements given in 40 CFR 60, Subpart Eb, referenced in EPA’s letter, are virtually identical to the monitoring requirements given in 40 CFR 60, Subpart Cb, which is applicable to the WTE facility. Per EPA’s letter, “we expect that in most cases monitoring that complies
with the requirements in subpart Eb will also provide the assurance of
compliance required by part 70 or part 64 for other emissions limitations or
standards for the same or similar pollutants." EPA’s letter states further,
“whether the monitoring in subpart Eb alone is sufficient to satisfy part 70 or part
64 monitoring requirements for emissions limitations not addressed in subpart
Eb must be evaluated on a case-by-case basis by the permitting authority in the
title V permit application review and approval process. Where possible, as
determined through the permitting authority on a case-by-case basis, we fully
support simplifying monitoring requirements for permits, including through the
application of one monitoring approach for multiple emissions limitations of the
same pollutant or dissimilar pollutants.”

The monitoring related to the particulate matter emission limit in Subpart Cb
consists of an annual performance testing using EPA Method 5. In addition, 40
CFR 60, Subpart Cb contains opacity monitoring requirements under 40 CFR
60.58b and 40 CFR 60.38b, which are used as an indicator of particulate control
device performance to provide assurance that PM emissions are minimized and
a surrogate for continuous particulate emission monitoring. SRSWS has
proposed to use the Subpart Cb monitoring (i.e., annual particulate performance
test and continuous opacity monitoring) to meet the CAM requirements for the
particulate emission limits (i.e., 34 ton per year total particulate matter emission
limit, 23 ton per year PM10 emission limit, 0.020 gr/dscf, corrected to 7% O2 for
total PM, including front and back halves, but excluding sulfates, chlorides, and
ammonium salts, and 0.015 gr/dscf corrected to 7% O2 for total PM10).

SRSWS has performed an annual particulate performance test on the baghouse
outlet for the past 10+ years. The annual particulate performance tests have not
shown any instances where the particulate emission limits were exceeded. The
highest particulate matter emissions measured during the annual performance
test on the MWCs since 1991 was < 0.01 gr/dscf. Therefore, the Subpart Cb
monitoring, consisting of an annual particulate test and continuous opacity
monitoring, should be acceptable for the particulate emission standards subject
to CAM. Per the EPA letter referenced above, in most cases monitoring that
complies with the requirements in subpart Eb will also provide the assurance of
compliance required by part 64 for other emissions limitations or standards for
the same pollutants. Therefore, since there is no reason to believe that the
monitoring established for particulate under Subpart Cb would not be sufficient
for the other particulate emission standards, given in the PSD permit, the
Subpart Cb monitoring will be applied as CAM for all of the applicable MWC
particulate emission limits.

The monitoring contained in 40 CFR 60, Subpart Cb (as implemented in SRCAA
Regulation I, Section 6.17), which will be used as CAM for all of the applicable
MWC particulate emissions limits, requires that the permittee test particulate
matter emissions from each MWC annually. The permittee must maintain records, for a period of 5 years, of each test done.

In addition, since opacity is a surrogate and indicator of particulate and PM10 emissions, the opacity monitoring required under 40 CFR 60.58b and 40 CFR 60.38b will be used as an indicator of baghouse performance. Under the required opacity monitoring, the permittee is required to continuously monitor opacity from each baghouse outlet, maintain records for the monitored opacity data, including all 6-minute average opacity levels, and submit a monthly summary of the monitoring data. Since the required opacity monitoring is required to generate 6-minute average opacity levels, this meets the CAM requirement given in 40 CFR 64.3(b)(iii), to have some data collection at least once per 24-hour period.

[40 CFR § 60.7(b) & (f), 2006] [WAC 173-401-615(1) & (2), 9/16/02] [WAC 173-400-115(1), 11/28/12] [SRCAA Regulation I, Section 6.17.H & I, 5/5/07] [WAC 173-400-115(1), 11/28/12] [WAC 173-400-115(1), 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] [WAC 173-434-170, 12/22/03] [PSD-88-1B, Condition 12, 27, & 28, 9/1/89 as revised on 2/9/96] [NOC #170, Conditions B.1, B.2, B.3, B.4, D.6, E.1, F.1, F.2, F.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-401-615(1), 11/28/12] [SRCAA Regulation I, Section 6.17.H & I, 5/5/07] [WAC 173-400-115(1), 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02]

Note: At least a portion of this MRRR is gapfilling.

While not a part of CAM for the particulate emission limits, the operation and maintenance plan (see Condition 59 above) will also add assurance that the particulate emission limits will be met, as it addresses proper operation and maintenance of the control equipment. In addition, the facility must meet operational requirements that will add assurance that this requirement is met, including:

- maintaining the MWC baghouse inlet temperatures below a specified limit, thereby minimizing the amount of condensable PM that will pass through the baghouses (see Condition 109 of the permit); and
- monitoring the MWC baghouse pressure drop to minimize the likelihood that a problem with the baghouse could go unnoticed (see Condition 4M.j of the permit).

Condition 80: Except as allowed under Condition 78, particulate matter emissions from each MWC shall not exceed 25 milligrams per dry standard cubic meter, corrected to 7 percent oxygen. [SRCAA Regulation I, Section 6.17.D.1 & 6.17.H, 5/5/07]

MRRR: The Subpart Cb particulate emission limit, 25 mg/dscm corrected to 7% O2, is presumed to have sufficient monitoring in Subpart Cb (because it is a post 1990 standard pursuant to Section 111 and 112 of the FCAA) and therefore is not subject to CAM. However, since SRSWS has proposed to use the Subpart Cb monitoring requirements as their CAM monitoring plan, the monitoring is the
same as for Condition 79. The monitoring related to the particulate matter emission limit in Subpart Cb consists of an annual performance testing using EPA Method 5. In addition, 40 CFR 60, Subpart Cb contains opacity monitoring requirements under 40 CFR 60.58b and 40 CFR 60.38b, which are used as an indicator of particulate control device performance to provide assurance that PM emissions are minimized and a surrogate for continuous particulate emission monitoring.

Condition 81: Opacity from each MWC shall:

a. Be less than or equal to 10%, six-minute average, as measured using a continuous opacity monitor, meeting the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1, and operated according to 40 CFR § 60.11;

b. Be less than or equal to 5%, based on either a six-minute average or a six-minute aggregate, whichever is more stringent, as determined using RM 9 for the six-minute average, and Ecology Method 9B for the six-minute aggregate; and

c. Be less than 20%, based on a three-minute aggregate, as determined using Ecology Method 9A.

[Condition 5S of this permit, see Section III. STREAMLINED REQUIREMENTS]

MRRR: The permittee is required to perform an annual opacity test using EPA Method 9. The permittee must maintain records, for a period of 5 years, of each test done.

In addition, the permittee must continuously monitor opacity from the baghouse outlets, using a COM, maintain records for the monitored opacity data, including all 6-minute average opacity levels, and submit a monthly summary of the monitoring data.

WAC 173-400-105(7) contains continuous emission monitoring system (CEMS) operating requirements. The rule states that all CEMs required by 40 CFR Parts 60, 61, 62, 63, or 75, or a permitting authority’s adoption of those federal standards must meet the CEMs performance specifications and data recovery requirements imposed by those standards. Per WAC 173-400-105(7), all CEMs required under an order, PSD permit, or regulation and not subject to CEMs performance specifications and data recovery requirements imposed by 40 CFR Parts 60, 61, 62, 63, or 75 must follow the continuous emission monitoring rule of the permitting authority, or the requirements given in WAC 173-400-105(7) (a) through (f). Since the facility is required to meet the CEMs performance specifications and data recovery requirements imposed by SRCAA Regulation I, Section 6.17 (which is the adoption of the federal standards given in 40 CFR 60,
Subpart Cb), the requirements of WAC 173-400-105(7) have been satisfied through SRCAA Regulation I, Section 6.17, and the requirements given in WAC 173-400-105(7) (a) through (f) do not apply. The CEM system at the facility is already subject to minimum data recovery requirements (given in Condition 38 and MRRR 4M), QA / QC requirements (given in MRRR 4M), continuous operating requirements (required to meet requirements of §60.13 given in MRRR 4M), recordkeeping requirements (given in MRRR 7M), and monthly reporting requirements (given in MRRR 8M).

While not a part of required monitoring for the streamlined opacity limits, the operation and maintenance plan (see Condition 59 above) will also add assurance that the particulate emission limits will be met, as it addresses proper operation and maintenance of the control equipment. In addition, the facility must meet operational requirements that will add assurance that this requirement is met, including:

- maintaining the MWC baghouse inlet temperatures below a specified limit, thereby minimizing the amount of condensable PM that will pass through the baghouses (see Condition 109 of the permit); and
- monitoring the MWC baghouse pressure drop to minimize the likelihood that a problem with the baghouse could go unnoticed (see Condition 4M of the permit).

Condition 82: Except as allowed under Condition 78, opacity from each MWC shall not exceed 10%, based on a six-minute average. [SRCAA Regulation I, Section 6.17.D.2 & 6.17.H, 5/5/07]

MRRR: The monitoring is the same as for Condition 81. The facility is required to continuously monitor opacity using a COM. The monitors must meet EPA performance specifications and go through audits to verify acceptable accuracy. Records of the monitoring data must be kept and a summary of the data must be reported to SRCAA monthly and semi-annually, including identification of periods of deviations from the standard.

[SRCAA Regulation I, Section 6.17, 5/5/07] [WAC 173-434-170, 12/22/03] [PSD-88-1B, Condition 12, 27, & 28, 9/1/89 as revised on 2/9/96] [NOC #170, Conditions B.1, B.2, B.3, B.4, D.6, E.1, F.1, F.2, F.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-400-115, 11/28/12] [WAC 173-400-105(7), 11/28/12] [40 CFR §60.7(b) & (f), 2006] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.
11/28/12 [40 CFR § 60.7(b) & (f), 2006] [WAC 173-401-615(1) & (2), 9/16/02]

Note: At least a portion of this MRRR is gapfilling.

Condition 83: Based on a 24-hour geometric mean determined using RM 19:

a. During 95% of the operating time per month, controlled sulfur dioxide emissions from each MWC shall not exceed 25 ppm, corrected to 7% oxygen, or uncontrolled sulfur dioxide emissions from each MWC shall be reduced by at least 85% by weight, whichever is less stringent; and

b. At all times, controlled sulfur dioxide emissions from each MWC shall not exceed 30 ppm, corrected to 7% oxygen, or uncontrolled sulfur dioxide emissions from each MWC shall be reduced by at least 80% by weight, whichever is less stringent.

SO2 emissions shall be measured, using a continuous emissions monitor system designed, installed, and operated to meet the requirements in 40 CFR Part 60, Appendix B (Performance Specification 2) and Appendix F. The 24-hour daily geometric means shall be determined, using RM 19, Section 4.3 and 5.4.

[Condition 6S of this permit, see Section III. STREAMLINED REQUIREMENTS]

MRRR:
The permittee is required to continuously monitor SO2 emissions at the inlet to the spray dry absorber and at the baghouse outlets. The monitors must meet EPA performance specifications and go through audits to verify acceptable accuracy. Records of the monitoring data must be kept and a summary of the data must be reported to SRCAA monthly. The permit contains a table which lists the minimum CEM data availability requirements for a valid average for emission limits with multi-hour averages like the 24-hour average SO2 emission limit. For emission limits with multi-hour averages, 75% (i.e., there must be at least 18 valid 1-hour blocks within a 24-hour operating period to make a valid 24-hour rolling average for SO2) has historically been used at the facility as the minimum data required for a valid average in the absence of permit, rule or other requirement specifications. The NOC and PSD permits for the facility do not specify minimum data requirements, so 75% has been used as the minimum data required for a valid SO2 average.

WAC 173-400-105(7) contains continuous emission monitoring system (CEMS) operating requirements. The rule states that all CEMs required by 40 CFR Parts 60, 61, 62, 63, or 75, or a permitting authority's adoption of those federal standards must meet the CEMs performance specifications and data recovery requirements imposed by those standards. Per WAC 173-400-105(7), all CEMs required under an order, PSD permit, or regulation and not subject to CEMs performance specifications and data recovery requirements imposed by 40 CFR Parts 60, 61, 62, 63, or 75 must follow the continuous emission monitoring rule of

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the permitting authority, or the requirements given in WAC 173-400-105(7) (a) through (f). Since the facility is required to meet the CEMs performance specifications and data recovery requirements imposed by SRCAA Regulation I, Section 6.17 (which is the adoption of the federal standards given in 40 CFR 60, Subpart Cb), the requirements of WAC 173-400-105(7) have been satisfied through SRCAA Regulation I, Section 6.17, and the requirements given in WAC 173-400-105(7) (a) through (f) do not apply. The CEM system at the facility is already subject to minimum data recovery requirements (given in Condition 38 and MRRR 4M), QA / QC requirements (given in MRRR 4M), continuous operating requirements (required to meet requirements of §60.13 given in MRRR 4M), recordkeeping requirements (given in MRRR 7M), and monthly reporting requirements (given in MRRR 8M).

[WAC 173-434-170, 12/22/03] [PSD-88-1B, Condition 12, 27 & 28, 9/1/89 as revised on 2/9/96] [NOC #170, Condition D.6, E.1, F.1, F.2, & F.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-400-105(7), 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

It should be noted that the SO2 emission limits are not subject to 40 CFR Part 64 – Compliance Assurance Monitoring (CAM). Although the three CAM applicability criteria apply (i.e., 1) the pollutant specific emissions unit (PSEU) has pre-controlled SO2 emissions over 100 tons (each MWC has an uncontrolled PTE of 309 tons SO2 per year), 2) the PSEU utilizes air pollution control equipment (a spray dry absorber) to reduce SO2 emissions, and 2) the PSEU is subject to several SO2 emission limits), per 64.2(b), “the requirements of this part shall not apply to any of the following emission limitations are standards: (vi), emission limitations or standards for which a part 70 or 71 permit specifies a continuous compliance determination method, as defined in 64.1.” Since the continuous SO2 emission monitor (CEM) is required in this AOP (which is a part 70 permit) and qualifies as a continuous compliance determination method, the requirements of CAM are not applicable to the MWC SO2 emission limits.

Condition 84: Based on a 24-hour geometric mean determined using RM 19, controlled sulfur dioxide emissions from each MWC shall not exceed 29 ppm, corrected to 7% oxygen, or uncontrolled sulfur dioxide emissions from each MWC shall be reduced by at least 75% by weight, whichever is less stringent, except as allowed under Condition 78. [SRCAA Regulation I, Section 6.17.D.6 & 6.17.H, 5/5/07]

MRRR: The monitoring is the same as for Condition 83. The facility is required to continuously monitor sulfur dioxide emissions using a CEM. The monitors must meet EPA performance specifications and go through audits to verify acceptable accuracy. Records of the monitoring data must be kept and a summary of the
data must be reported to SRCAA monthly and semi-annually, including identification of periods of deviations from the standard.

[SRCAA Regulation I, Section 6.17, 5/5/07] [WAC 173-434-170, 12/22/03] [PSD-88-1B, Condition 12, 27 & 28, 9/1/89 as revised on 2/9/96] [NOC #170, Condition D.6, E.1, F.1, F.2, & F.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-400-105(7), 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 85: Hydrogen chloride emissions from each MWC shall not exceed 29 ppm, corrected to 7% oxygen, or uncontrolled emissions shall be reduced by at least 95% by weight, whichever is less stringent.

[Condition 7S of this permit, see Section III. STREAMLINED REQUIREMENTS]

MRRR: The MWC emission units have hydrogen chloride emission limits that are subject to 40 CFR Part 64 – Compliance Assurance Monitoring (CAM). Per 64.2, the requirements of 40 CFR Part 64 apply to a pollutant-specific emissions units (PSEU) at a major source that is required to obtain a Part 70 permit if the unit satisfies all of the following criteria:

1. The PSEU must have pre-controlled emissions of the applicable pollutant which exceeds the major source thresholds established in WAC 173-401-200(17). In the case of the MWC emission units, SRSWS has estimated the pre-controlled PTE of HCl to be 571 tpy per MWC. This exceeds the major source threshold of 10 tpy, established in WAC 173-401-200(17).

2. The PSEU must utilize air pollution control equipment to reduce emissions of the applicable pollutant to a level that meets the established emission limit(s). In the case of the MWCs, the HCl emissions of the PSEU are controlled by a spray dry absorber. It is not possible for the MWC to by-pass the spray dry absorber. Therefore, CAM does not need to address the potential for bypass.

3. The PSEU must be subject to an emission limit for the applicable pollutant. In the case of the MWCs, the PSEU is subject to the following HCl emission limits:

- 50 ppm HCl, corrected to 7% O2 or 80% reduction of uncontrolled HCl emissions, given in Condition 4 of PSD-88-1B;
- 50 ppm HCl, corrected to 7% O2, or 90% reduction of uncontrolled HCl emissions, given in Condition A.1 of NOC #170;
- 50 ppm HCl, corrected to 7% O2, or 80% reduction of uncontrolled HCl emissions.
emissions, given in WAC 173-434-130(2);

- 29 ppm HCl, corrected to 7% O2, or 95% reduction of uncontrolled HCl emissions, whichever is less stringent, given in SRCAA Regulation I, Section 6.17.D.1 (which incorporates the requirements from 40 CFR 60, Subpart Cb)

The HCl limits listed are included in Conditions 85 and 86 (see Condition 7S of Section III. STREAMLINED REQUIREMENTS for discussion of streamlining of HCl emission standards).

For emission units subject to CAM, if the post-controlled PTE for HCl is estimated to be more than 10 tons per year, the unit is considered a large emissions unit. For large emissions units, data collection frequency must be at least 4 times per hour. The post-controlled HCl PTE from each MWC is 28.6 tons per year, based on the 95% reduction requirement given in the streamlined emission limit. Therefore, each MWC is considered to be a large emissions unit, since post-controlled emissions are more than 10 tons per year, and data collection frequency must be at least 4 times per hour.

SRSWS has proposed to use the monitoring contained in 40 CFR 60, Subpart Cb (as implemented in SRCAA Regulation I, Section 6.17) to meet the CAM requirements for the streamlined HCl standards that apply to the MWCs. In a letter dated July 7, 1999, EPA responded to an inquiry posed by a facility as to whether using the monitoring contained in 40 CFR 60, Subparts Eb and Cb could be used to satisfy title V periodic monitoring (40 CFR Part 70) or compliance assurance monitoring (40 CFR Part 64) requirements for other applicable requirements under existing air pollution regulations, such as State implementation plans (SIPs). Per the July 7, 1999 letter from Steven Hitte of EPA to Ms. Maria Zannes of Integrated Waste Services Association, “the monitoring requirements in subpart Eb are rigorous and specify use of continuous monitoring systems for opacity, for emissions of acid gases, organic gases, and nitrogen oxides, and for operational parameters that serve as surrogates for monitoring compliance with particulate matter, dioxins and furans, and metals emissions limits.” The monitoring requirements given in 40 CFR 60, Subpart Eb, referenced in EPA’s letter, are virtually identical to the monitoring requirements given in 40 CFR 60, Subpart Cb, which is applicable to the WTE facility. Per EPA’s letter, “we expect that in most cases monitoring that complies with the requirements in subpart Eb will also provide the assurance of compliance required by part 70 or part 64 for other emissions limitations or standards for the same or similar pollutants.” EPA’s letter states further, “whether the monitoring in subpart Eb alone is sufficient to satisfy part 70 or part 64 monitoring requirements for emissions limitations not addressed in subpart Eb must be evaluated on a case-by-case basis by the permitting authority in the title V permit application review and approval process. Where possible, as
determined through the permitting authority on a case-by-case basis, we fully support simplifying monitoring requirements for permits, including through the application of one monitoring approach for multiple emissions limitations of the same pollutant or dissimilar pollutants."

The monitoring related to the HCl emission limit in Subpart Cb consists of an annual performance testing using EPA Method 26 or 26A. In addition, 40 CFR 60, Subpart Cb contains continuous SO2 monitoring requirements which are used as an indicator of acid gas removal device performance to provide assurance that HCl emissions are minimized and a surrogate for continuous HCl emission monitoring. EPA recognized in the 40 CFR Part 60, Subpart Eb and Cb standards that monitoring of SO2 to verify acid gas removal device performance ensures that HCl emissions are minimized. Because SO2 is less reactive than HCl in the combustion gas stream, HCl removal primarily occurs first with SO2 removal secondary to HCl removal. Therefore, if the SO2 emissions are minimized, HCl emissions will be minimized as well.

SRSWS has proposed to use the Subpart Cb monitoring (i.e., annual HCl performance test and continuous SO2 monitoring) for the HCl emission limits that are subject to CAM requirements (i.e., the PSD, NOC, and Chapter 173-434 HCl emission limits). Using the Subpart Cb monitoring should be adequate for the other HCl emission limits because the Subpart Cb HCl emission limit is the most stringent HCl limit that the MWC is required to meet. Per the EPA letter referenced above, in most cases monitoring that complies with the requirements in subpart Eb will also provide the assurance of compliance required by part 64 for other emissions limitations or standards for the same pollutants. Therefore, since there is no reason to believe that the monitoring established for HCl under Subpart Cb would not be sufficient for the other HCl emission standards, given in the PSD permit, the Subpart Cb monitoring will be applied as CAM for all of the applicable MWC HCl emission limits.

The SO2 monitors are required to meet the requirements of 40 CFR § 60.13, which requires that all continuous monitoring systems for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. As discussed above, each MWC is considered to be a large emissions unit under CAM since post-controlled emissions are more than 10 tons per year. Therefore, the data collection frequency must at least 4 times per hour. Since the SO2 emission monitors are required to complete a minimum cycle of operation every 15 minutes, the CAM data collection frequency requirement will be met.

SRSWS has performed an annual HCl performance test on the baghouse outlet for the past 10+ years. The annual HCl performance tests have not shown any
instances where any of the HCl emission limits were exceeded.

The monitoring contained in 40 CFR 60, Subpart Cb (as implemented in SRCAA Regulation I, Section 6.17), which will be used as CAM for all of the applicable MWC HCl emissions limits, requires that the permittee test HCl emissions from each MWC annually. The permittee must maintain records, for a period of 5 years, of each test done.

In addition, since SO2 is an indicator of proper operation of the acid gas control device, the SO2 monitoring required under Subpart Cb will be used as an indicator of HCl removal. Under the required SO2 monitoring, the permittee is required to continuously monitor SO2 emissions from the inlets to the spray dry absorber and baghouse outlets, maintain records for the monitored SO2 data, including all 15-minute average SO2 levels, and submit a monthly summary of the monitoring data.

Per the PSD permit, if EPA adopts a Performance Specification for hydrogen chloride monitors, the permittee will be required to install, maintain, and operate hydrogen chloride monitors on the MWC exhausts.

WAC 173-434-170, 12/22/03 [PSD-88-1B, Condition 4 & 28, 9/1/89 as revised on 2/9/96] [NOC #170, Conditions B.1, B.2, B.3, B.4, D.6, E.1, F.2, F.3, F.4 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [SRCAA Regulation I, Section 6.17.H & 6.17.I, 5/5/07] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of the CAM requirements for the HCl emission limits, the operation and maintenance plan (see Condition 59 above) will also add assurance that this requirement will be met, as it addresses proper operation and maintenance of the control equipment. In addition, the facility must meet operational requirements that will add assurance that this requirement is met, including:

- monitoring the lime slurry flow to the spray dry absorber to minimize the likelihood that a problem with the slurry flow could go unnoticed (see Condition 4M.m of the permit).

Condition 86: Except as allowed under Condition 78, hydrogen chloride emissions from each MWC shall not exceed 29 ppm, corrected to 7% oxygen, or uncontrolled emissions shall be reduced by at least 95% by weight, whichever is less stringent. [SRCAA Regulation I, Section 6.17.D.7 & 6.17.H, 5/5/07]

MRRR: The Subpart Cb HCl mission limit, 29 ppm, corrected to 7% O2, is presumed to
have sufficient monitoring in Subpart Cb (because it is a post 1990 standard pursuant to Section 111 and 112 of the FCAA) and therefore is not subject to CAM. However, since SRSWS has proposed to use the Subpart Cb monitoring requirements as their CAM monitoring plan, the monitoring is the same as for Condition 85.

Condition 87: Oxides of nitrogen emissions from each MWC shall not exceed:

a. 165 ppm, corrected to 7% oxygen, 8-hour rolling average, as measured using a continuous emissions monitor system designed, installed, and operated to meet the requirements in 40 CFR Part 60, Appendix B (Performance Specification 2) and Appendix F; and

b. 184 tons per year.

[PSD-88-1B, Condition 5 (the first sentence), 9/1/89 as revised on 2/9/96]

MRRR: The permittee is required to continuously monitor NOx emissions. The monitors must meet EPA performance specifications and go through audits to verify acceptable accuracy. Records of the monitoring data must be kept and a summary of the data must be reported to SRCAA monthly. The permit contains a table which lists the minimum CEM data availability requirements for a valid average for emission limits with multi-hour average, like the 8-hour average NOx emission limit. For emission limits with multi-hour averages, a minimum data requirement of 75% (i.e., there must be at least 6 valid 1-hour blocks within a 8-hour operating period to make a valid 8-hour rolling average for NOx) has historically been used at the facility as the minimum data required for a valid average in the absence of permit, rule or other requirement specifications. The NOC and PSD permits for the facility do not specify minimum data requirements, so 75% has been used as the minimum data required for a valid NOx average.

To calculate the annual NOx emission total from each unit, WTE calculates an average NOx concentration (in ppm) for the year (from the NOx continuous emission monitor) and then multiplies this average concentration by the total operating hours during the year and the 3-year average airflow (which is measured at maximum steam flow) and then multiplied by the ratio of the average steam flow for the year divided by the maximum steam flow.

WAC 173-400-105(7) contains continuous emission monitoring system (CEMS) operating requirements. The rule states that all CEMs required by 40 CFR Parts 60, 61, 62, 63, or 75, or a permitting authority’s adoption of those federal standards must meet the CEMs performance specifications and data recovery requirements imposed by those standards. Per WAC 173-400-105(7), all CEMs required under an order, PSD permit, or regulation and not subject to CEMs performance specifications and data recovery requirements imposed by 40 CFR Parts 60, 61, 62, 63, or 75 must follow the continuous emission monitoring rule of
the permitting authority, or the requirements given in WAC 173-400-105(7) (a) through (f). Since the facility is required to meet the CEMs performance specifications and data recovery requirements imposed by SRCAA Regulation I, Section 6.17 (which is the adoption of the federal standards given in 40 CFR 60, Subpart Cb), the requirements of WAC 173-400-105(7) have been satisfied through SRCAA Regulation I, Section 6.17, and the requirements given in WAC 173-400-105(7) (a) through (f) do not apply. The CEM system at the facility is already subject to minimum data recovery requirements (given in Condition 38 and MRRR 4M), QA / QC requirements (given in MRRR 4M), continuous operating requirements (required to meet requirements of §60.13 given in MRRR 4M), recordkeeping requirements (given in MRRR 7M), and monthly reporting requirements (given in MRRR 8M).

[PSD-88-1B, Condition 12 & 27, 9/1/89 as revised on 2/9/96] [WAC 173-400-105(7), 11/28/12] [NOC #170, Condition E.1, D.6, F.1, F.2, & F.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

It should be noted that the NOx emission limits are not subject to 40 CFR Part 64 – Compliance Assurance Monitoring (CAM). Although the three CAM applicability criteria apply (i.e., 1) the pollutant specific emissions unit (PSEU) has pre-controlled NOx emissions over 100 tons (each MWC has an uncontrolled PTE of 460 tons NOx per year), 2) the PSEU utilizes air pollution control equipment (non selective catalytic reduction) to reduce NOx emissions, and 2) the PSEU is subject to several SO2 emission limits), per 64.2(b), “the requirements of this part shall not apply to any of the following emission limitations or standards: (vi), emission limitations or standards for which a part 70 or 71 permit specifies a continuous compliance determination method, as defined in 64.1.” Since the continuous NOx emission monitor (CEM) is required in this AOP (which is a part 70 permit) and qualifies as a continuous compliance determination method, the requirements of CAM are not applicable to the MWC NOx emission limits.

Condition 88: Oxides of nitrogen emissions from each MWC shall not exceed 225 ppm, corrected to 7% oxygen, 3-hour block average, as measured using a continuous emissions monitor system designed, installed, and operated to meet the requirements in 40 CFR Part 60, Appendix B (Performance Specification 2) and Appendix F. [NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

MRRR: The monitoring is the same as for Condition 87. It should be noted that the permit contains a table which lists the minimum CEM data availability requirements for a valid average for emission limits with multi-hour average, like the 3-hour average NOx emission limit. For emission limits with multi-hour averages, a minimum data requirement of 75% has historically been used at the
facility as the minimum data required for a valid average in the absence of permit, rule or other requirement specifications. The NOC and PSD permits for the facility do not specify minimum data requirements, so 75% has been used as the minimum data required for a valid NOx average. For a valid 3-hour NOx average, all three hours are needed for a 3-hour average to achieve the 75% minimum data required (two hours is only 67%).

[NOC #170, Condition E.1, D.6, F.1, F.2, & F.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-400-105(7), 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 89: Based on a 24-hour daily arithmetic mean determined using RM 19, oxides of nitrogen emissions from each MWC shall not exceed 205 ppmv, corrected to 7% oxygen, except as allowed under Condition 78. [SRCAA Regulation I, Section 6.17.D.7 & 6.17.H, 5/5/07]

MRRR: The monitoring is the same as for Condition 87. SRCAA Regulation I, Section 6.17 specifies all of the required monitoring, reporting, and data availability requirements for the NOx limit contained in the rule.

[SRCAA Regulation I, Section 6.17, 5/5/07] [WAC 173-400-105(7), 11/28/12]

Condition 90: Except as allowed under Condition 78, carbon monoxide (CO) emissions from each MWC shall not exceed 100 ppmv, corrected to 7% O2, based on a 4-hour block average. [SRCAA Regulation I, Section 6.17.D.7 & 6.17.H, 5/5/07]

MRRR: SRCAA Regulation I, Section 6.17 specifies all of the required monitoring, reporting, and data availability requirements for the CO limit contained in the rule. The permittee is required to continuously monitor CO emissions. The monitors must meet EPA performance specifications and go through audits to verify acceptable accuracy. Records of the monitoring data must be kept and a summary of the data must be reported to SRCAA monthly and semi-annually, including identification of periods of deviations from the standard.

[WAC 173-434-170, 12/22/03] [PSD-88-1B, Condition 12, 27, & 28, 9/1/89 as revised on 2/9/96] [NOC #170, Condition E.1, D.6, F.1, F.2, & F.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [SRCAA Regulation I, Section 6.17.H & 6.17.I, 5/5/07] [WAC 173-400-105(7), 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

It should be noted that the CO emission limits are not subject to 40 CFR Part 64
Compliance Assurance Monitoring (CAM) because the uncontrolled CO PTE from each MWC is only 92 tons per year, which is less than the major source threshold of 100 tons per year. If the uncontrolled PTE is below the major source threshold, CAM is not triggered.

Condition 91: Except during periods of startup and shutdown, carbon monoxide (CO) emissions from each MWC shall not exceed 100 ppmv, corrected to 7% O2, based on a 4-hour block average. Periods of startup and shutdown are limited to 3 hours per occurrence. During periods of startup or shutdown, or malfunctions that have been excused from penalties under Condition 20, monitoring data shall be dismissed or excluded from compliance calculations, but shall be recorded and reported in accordance with Conditions 7M.f.v and 9M.a.v. See Condition 1S.a.iv for malfunction provisions.

[NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Note that this language differs slightly from the language in NOC #170. One of the main focuses of the NOC #170 revision in 2011 was to align the NOC emission limits and the associated monitoring with SRCAA Regulation I, Section 6.17, which adopts 40 CFR Part 60, Subpart Cb. The startup, shutdown, and malfunction data exclusion provisions in Regulation I, Section 6.17 were overlooked during the previous NOC revision. A subsequent NOC revision incorporated startup and shutdown provisions; however the malfunction data exclusion provisions were not addressed. Inclusion of the malfunction provisions is needed to align the CO emission limit in the NOC to the CO emission limit in SRCAA Regulation I, Section 6.17. The need for startup, shutdown, and malfunction exclusion provisions for municipal solid waste combustors is acknowledged in both the PSD permit, which incorporates an exemption from the CO limit for up to 5% of the operating time, and by EPA in the 40 CFR 60 Subpart Cb standards as adopted in Regulation I Section 6.17, which specifically provides for exclusion of data during startup, shutdown and malfunction periods. With the malfunction data exclusion provision, the plant can quickly diagnose and address problems and return to normal operations without needing to shut down in order to comply with the CO emission limit. Additionally, by making the CEMs data exclusion requirements consistent for the NOC and Section 6.17 CO limit, the facility does not have to keep separate 4-hour CO averages and make separate determinations of compliance (i.e., one with the data exclusion provision in Section 6.17 and one without). To address these issues and ensure proper alignment of the NOC CO limit with the Section 6.17 limit, the Chapter 401 permit combines the CO emission limit condition in the NOC with the State provision for malfunctions (Condition 20) and the malfunction data exclusion provision of Regulation I, Section 6.17.

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**MRRR:**

The permittee is required to continuously monitor CO emissions. The monitors must meet EPA performance specifications and go through audits to verify acceptable accuracy. Records of the monitoring data must be kept and a summary of the data must be reported to SRCAA monthly. The permit contains a table which lists the minimum CEM data availability requirements for a valid average for emission limits with multi-hour average, like the 4-hour average CO emission limit. For emission limits with multi-hour averages, a minimum data requirement of 75% (i.e., there must be at least 3 valid 1-hour blocks within a 4-hour operating period to make a valid 4-hour rolling average for CO) has historically been used at the facility as the minimum data required for a valid average in the absence of permit, rule or other requirement specifications. The NOC and PSD permits for the facility do not specify minimum data requirements, so 75% has been used as the minimum data required for a valid CO average.

WAC 173-400-105(7) contains continuous emission monitoring system (CEMS) operating requirements. The rule states that all CEMs required by 40 CFR Parts 60, 61, 62, 63, or 75, or a permitting authority’s adoption of those federal standards must meet the CEMs performance specifications and data recovery requirements imposed by those standards. Per WAC 173-400-105(7), all CEMs required under an order, PSD permit, or regulation and not subject to CEMs performance specifications and data recovery requirements imposed by 40 CFR Parts 60, 61, 62, 63, or 75 must follow the continuous emission monitoring rule of the permitting authority, or the requirements given in WAC 173-400-105(7) (a) through (f). Since the facility is required to meet the CEMs performance specifications and data recovery requirements imposed by SRCAA Regulation I, Section 6.17 (which is the adoption of the federal standards given in 40 CFR 60, Subpart Cb), the requirements of WAC 173-400-105(7) have been satisfied through SRCAA Regulation I, Section 6.17, and the requirements given in WAC 173-400-105(7) (a) through (f) do not apply. The CEM system at the facility is already subject to minimum data recovery requirements (given in Condition 38 and MRRR 4M), QA / QC requirements (given in MRRR 4M), continuous operating requirements (required to meet requirements of §60.13 given in MRRR 4M), recordkeeping requirements (given in MRRR 7M), and monthly reporting requirements (given in MRRR 8M).

[NOC #170, Condition E.1, D.6, F.1, F.2, & F.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-400-105(7), 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

**Condition 92:** Carbon monoxide (CO) emissions from each MWC shall not exceed 100 ppm on a dry weight basis, corrected to 7% O2, for an 8-hour average for more than 5% of the operating time in a month, or 100 ppm for a 24 hour average or 86 tons
per year. See Condition 1S.a.iv for startup, shutdown, malfunction, and/or upset conditions provisions. [PSD-88-1B, Condition 6 (the first sentence), 9/1/89 as revised on 2/9/96]

**MRRR:** The monitoring is the same as for Condition 91. The permittee is required to continuously monitor CO emissions. The monitors must meet EPA performance specifications and go through audits to verify acceptable accuracy. Records of the monitoring data must be kept and a summary of the data must be reported to SRCAA monthly. The permit contains a table which lists the minimum CEM data availability requirements for a valid average for emission limits with multi-hour average, like the 8-hour average CO emission limit. For emission limits with multi-hour averages, a minimum data requirement of 75% (i.e., there must be at least 6 valid 1-hour blocks within a 8-hour operating period to make a valid 8-hour rolling average for CO) has historically been used at the facility as the minimum data required for a valid average in the absence of permit, rule or other requirement specifications. The NOC and PSD permits for the facility do not specify minimum data requirements, so 75% has been used as the minimum data required for a valid CO average.

To calculate the annual CO emission total from each unit, WTE calculates an average CO concentration (in ppm) for the year (from the CO continuous emission monitor) and then multiplies this average concentration by the total operating hours during the year and the 3-year average airflow (which is measured at maximum steam flow) and then multiplied by the ratio of the average steam flow for the year divided by the maximum steam flow.

[PSD-88-1B, Condition 12, 27, & 28, 9/1/89 as revised on 2/9/96] [WAC 173-400-105(7), 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

**Condition 93:** Gaseous non-methane hydrocarbon emissions from each stack shall not exceed 17.9 ppm (dry basis), corrected to 7% oxygen. [PSD-88-1B, Condition 7, 9/1/89 as revised on 2/9/96]

**MRRR:** The permittee is required to test non-methane hydrocarbon emissions annually. The permittee must maintain records, for a period of 5 years, of each test done.

SRSWS has performed an annual NMHC performance test on the baghouse outlet annually since 1991. The annual NMHC performance tests have not shown any instances where the NMHC emission limit was exceeded. The highest NMHC emissions measured during the annual performance test on the MWCs since 1991 was 10.2 ppm (dry) at 7% O2 in 2011.

It should be noted that during the 2006 annual source test, WTE monitored
elevated NMHC emissions from Unit #2 during the first run of the test. Testing was suspended by the facility because they felt the run was not representative of normal operating conditions and/or the data was inaccurate due to an unknown sampling / analytical problem. The facility concluded that the abnormally high NMHC reading was due to the Method 25A sampling system and/or instrumentation and suspended testing for the day. To address the elevated NMHC emissions measured during the test, WTE entered into an agreement with SRCAA, dated December 1, 2006 to perform quarterly NMHC testing during 2007 to demonstrate compliance with the NMHC emission limit. The facility performed quarterly NMHC testing during 2007, and the results did not show any elevated levels of NMHC (all measured NMHC results were less than 4 ppm (dry) at 7% O2).

Since the measured NMHC emissions have been well below the required limit in the past, an annual performance test should be adequate monitoring to assure compliance with the NMHC emission limit. [NOC #170, Conditions B.1, B.2, B.3, & B.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this requirement will be met, as it addresses proper operation and maintenance of the MWCs. In addition, the facility must meet other operational requirements that will add assurance that this requirement is met, including:

- maintaining the municipal waste combustor unit load level below 110% of the level during the most recent dioxins/furans test (see Condition 111); and
- compliance with the CO emission limits, which ensure that optimum combustion conditions are maintained and that maximum destruction of organic compounds is achieved (see Conditions 90, 91, and 92).

Condition 94: With the exception of particulate, PM10, SO2, CO, lead, non-methane hydrocarbons, NOx, beryllium, mercury, fluoride, and sulfuric acid mist, emissions shall be less than the significant levels in 40 CFR § 52.21(b)(23)(i) (1988). [PSD-88-1B, Condition 11, 9/1/89 as revised on 2/9/96]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 95: Fluoride emissions shall not exceed 5.4 ppm (dry basis), corrected to 7% oxygen. [NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]
MRRR: The permittee is required to test fluoride emissions annually. The permittee must maintain records, for a period of 5 years, of each test done.

SRSWS has performed an annual fluoride performance test on the baghouse outlet every year since 1991. The annual fluoride performance tests have not shown any instances where the fluoride emission limit was exceeded. The highest fluoride emissions measured during the annual performance test on the MWCs since 1991 was 0.7 ppmdv in 1991. During the past 10 years, the highest fluoride emissions measured during the annual performance test on the MWCs was 0.34 ppmdv in 2007. Since the measured fluoride emissions have been well below the required limit in the past, an annual performance test should be adequate monitoring to assure compliance with the fluoride emission limit.

[NOC #170, Conditions B.1, B.2, B.3, & B.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-401-615(1) & (2), 10/4/93] Note: At least a portion of this MRRR is gapfilling.

Condition 96: Dioxins and furans emissions shall not exceed 0.50 nanogram per dry standard cubic meter expressed as toxic equivalency (TEQ), corrected to 7% oxygen, as provided in SRCAA Order #95-10. [NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12 and SRCAA Order #95-10, 8/15/95]

MRRR: The permittee is required to test dioxins/furans emissions annually. The permittee must maintain records, for a period of 5 years, of each test done.

SRSWS has performed an annual dioxins/furans performance test on at least one of the baghouse outlets since 1991. The annual D/F performance tests have not shown any instances where the D/F emission limit was exceeded. The highest D/F emissions measured during the annual performance test on the MWCs since 1991 was 0.13 ng/dscm (TEQ) at 7% O2 in 1991. During the past 10 years, the highest D/F emissions measured during the annual performance test on the MWCs was 0.12 ng/dscm (TEQ) at 7% O2 in 2009. Since the measured D/F emissions have been well below the required limit in the past, an annual performance test should be adequate monitoring to assure compliance with the D/F emission limit.

[NOC #170, Conditions B.1, B.2, B.3, & B.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this
requirement will be met, as it addresses proper operation and maintenance of the MWCs. In addition, the facility must meet other operational requirements that will add assurance that this requirement is met, including:

- maintaining the municipal waste combustor unit load level below 110% of the level during the most recent dioxins/furans test (see Condition 111);
- maintaining the carbon injection level at that present during the test (see Condition 112); and
- compliance with the CO emission limits, which ensure that optimum combustion conditions are maintained and that maximum destruction of organic compounds is achieved (see Conditions 90, 91, and 92).

Condition 97: Except as allowed under Condition 78, dioxins/furans emissions shall not exceed 30 nanograms per dry standard cubic meter (total mass), corrected to 7% oxygen. [SRCAA Regulation I, Section 6.17.D.8 & 6.17.H, 5/5/07]

MRRR: The permittee is required to test dioxins/furans emissions annually. The permittee must maintain records, for a period of 5 years, of each test done. Twice a year the permittee must report to SRCAA, the results of the two most recent performance tests, including any results documenting a violation of the emission limit.

SRSWS has performed an annual dioxins/furans performance test on the baghouse outlet for the past 10+ years. The annual D/F performance tests have not shown any instances where the D/F emission limit was exceeded. The highest D/F emissions measured during the annual performance test on the MWCs since 1991 was 10 ng/dscm (total mass) at 7% O2 in 1997. During the past 10 years, the highest D/F emissions measured during the annual performance test on the MWCs was 6.5 ng/dscm (total mass) at 7% O2 in 2009. Since the measured total D/F emissions have been well below the required limit in the past, an annual performance test should be adequate monitoring to assure compliance with the D/F emission limit.

[SRCRA Regulation I, Section 6.17.H & 6.17.I, 5/5/07] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this requirement will be met, as it addresses proper operation and maintenance of the MWCs. In addition, the facility must meet other operational requirements that will add assurance that this requirement is met, including:

- maintaining the municipal waste combustor unit load level below 110% of the level during the most recent dioxins/furans test to minimize over-firing the
boiler to reduce flyash or particulate matter carryover to the boiler convective sections where dioxin can form on flyash particles at the temperatures encountered there. This helps to ensure dioxin emission are minimized (see Condition 111);

- if carbon injection is used during the most recent dioxin/furan test, maintaining the carbon injection level at that present during the test (see Condition 112); and
- compliance with the CO emission limits, which ensure that optimum combustion conditions are maintained and that maximum destruction of organic compounds is achieved (see Condition 90, 91, and 92).

Condition 98: Lead emissions from each MWC shall not exceed 0.40 mg/dscm, corrected to 7% oxygen, as measured by RM 29. [NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

MRRR: The MWC emission units have lead emission limits that are subject to 40 CFR Part 64 – Compliance Assurance Monitoring (CAM). Per 64.2, the requirements of 40 CFR Part 64 apply to a pollutant-specific emissions units (PSEU) at a major source that is required to obtain a Part 70 permit if the unit satisfies all of the following criteria:

1. The PSEU must have pre-controlled emissions of the applicable pollutant which exceeds the major source thresholds established in WAC 173-401-200(17). In the case of the MWC emission units, SRSWS has estimated the pre-controlled PTE of lead to be 19 tpy per MWC. This exceeds the major source threshold of 10 tpy, established in WAC 173-401-200(17).

2. The PSEU must utilize air pollution control equipment to reduce emissions of the applicable pollutant to a level that meets the established emission limit(s). In the case of the MWCs, the lead emissions of the PSEU are controlled by a pulse-jet baghouse. It is not possible for the MWC to by-pass the baghouse. Therefore, CAM does not need to address the potential for bypass.

3. The PSEU must be subject to an emission limit for the applicable pollutant. In the case of the MWCs, the PSEU is subject to the following lead emission limits:

   - 0.040 gr/dscf at 7% O2, given in Condition A.1 of NOC #170; and
   - 0.40 mg/dscm, corrected to 7% O2, given in SRCAA Regulation I, Section 6.17.D.4 (which incorporates the requirements from 40 CFR 60, Subpart Cb)

For emission units subject to CAM, if the post-controlled lead PTE is estimated to be more than 10 tons per year, the unit is considered a large emissions unit.
For large emissions units, data collection frequency must be at least 4 times per hour. The post-controlled PTE of lead from each MWC is 0.35 tons per year, based on the lead emission limit contained in SRCAA Regulation I, Section 6.17.D.4 and the airflow during the 2004 stack test. Therefore, each MWC is not considered to be a large emissions unit, since post-controlled lead PTE is less than 10 tons per year. Per 40 CFR 64.3(b)(iii), the frequency of data collection may be less frequent than 4 times per hour, but must include some data collection at least once per 24-hour period.

SRSWS has proposed to use the monitoring contained in 40 CFR 60, Subpart Cb (as implemented in SRCAA Regulation I, Section 6.17) to meet the CAM requirements for the lead standard that applies to the MWCs. In a letter dated July 7, 1999, EPA responded to an inquiry posed by a facility as to whether using the monitoring contained in 40 CFR 60, Subparts Eb and Cb could be used to satisfy title V periodic monitoring (40 CFR Part 70) or compliance assurance monitoring (40 CFR Part 64) requirements for other applicable requirements under existing air pollution regulations, such as State implementation plans (SIPs). Per the July 7, 1999 letter from Steven Hitte of EPA to Ms. Maria Zannes of Integrated Waste Services Association, “the monitoring requirements in subpart Eb are rigorous and specify use of continuous monitoring systems for opacity, for emissions of acid gases, organic gases, and nitrogen oxides, and for operational parameters that serve as surrogates for monitoring compliance with particulate matter, dioxins and furans, and metals emissions limits.” The monitoring requirements given in 40 CFR 60, Subpart Eb, referenced in EPA’s letter, are virtually identical to the monitoring requirements given in 40 CFR 60, Subpart Cb, which is applicable to the WTE facility. Per EPA’s letter, “we expect that in most cases monitoring that complies with the requirements in subpart Eb will also provide the assurance of compliance required by part 70 or part 64 for other emissions limitations or standards for the same or similar pollutants.” EPA’s letter states further, “whether the monitoring in subpart Eb alone is sufficient to satisfy part 70 or part 64 monitoring requirements for emissions limitations not addressed in subpart Eb must be evaluated on a case-by-case basis by the permitting authority in the title V permit application review and approval process. Where possible, as determined through the permitting authority on a case-by-case basis, we fully support simplifying monitoring requirements for permits, including through the application of one monitoring approach for multiple emissions limitations of the same pollutant or dissimilar pollutants.”

The monitoring related to the lead emission limit in Subpart Cb consists of an annual performance testing using EPA Method 29. In addition, 40 CFR 60, Subpart Cb contains opacity monitoring requirements under 40 CFR 60.58b and 40 CFR 60.38b, which are used as an indicator of particulate control device performance to provide assurance that PM emissions are minimized and a
surrogate for continuous lead emission monitoring.

SRSWS has proposed to use the Subpart Cb monitoring (i.e., annual lead performance test and continuous opacity monitoring) for the lead emission limits that are subject to CAM requirements (i.e., NOC #170 lead emission limit). Using the Subpart Cb monitoring should be adequate because the Subpart Cb lead emission limit is the same as the lead emission limit given in the NOC (except that the Subpart Cb limit contains a startup, shutdown, and malfunction exclusion). Per the EPA letter referenced above, in most cases monitoring that complies with the requirements in subpart Eb will also provide the assurance of compliance required by part 64 for other emissions limitations or standards for the same pollutants.

SRSWS has performed an annual lead performance test on the baghouse outlet for the past 10+ years. The annual lead performance tests have not shown any instances where the lead emission limits were exceeded. The highest lead emissions measured during the annual performance test on the MWCs since 1991 was 0.068 mg/dscm in 2003. Therefore, the Subpart Cb monitoring, consisting of an annual lead test and continuous opacity monitoring, should be acceptable for the lead emission standards subject to CAM.

In addition, since opacity is a surrogate and indicator of particulate, which includes lead emissions, the opacity monitoring required under 40 CFR 58b and 40 CFR 60.38b will be used as an indicator of baghouse performance. Under the required opacity monitoring, the permittee is required to continuously monitor opacity from each baghouse outlet, maintain records for the monitored opacity data, including all 6-minute average opacity levels, and submit a monthly summary of the monitoring data. Since the required opacity monitoring is required to generate 6-minute average opacity levels, this meets the CAM requirement given in 40 CFR 64.3(b)(iii), to have some data collection at least once per 24-hour period.

[NOC #170, Conditions B.1, B.2, B.3, B.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11, & 11/28/12] [SRCAA Regulation I, Sections 6.17.H & I, 5/5/07] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of CAM for the lead emission limits, the operation and maintenance plan (see Condition 59 above) will also add assurance that the lead emission limit will be met, as it addresses proper operation and maintenance of the control equipment. In addition, the facility must meet operational requirements that will add assurance that this requirement is met, including:

- keeping spare bags on site to minimize replacement time if a faulty bag is
found in the baghouse (see Condition 109 of the permit); and

- monitoring the MWC baghouse pressure drop to minimize the likelihood that a problem with the baghouse could go unnoticed (see Condition 4M.j of the permit).

Condition 99: Except as allowed under Condition 78, lead emissions from each MWC shall not exceed 0.40 mg/dscm, corrected to 7% oxygen, as measured by RM 29. This standard shall apply at all times except during periods of startup, shutdown, or malfunction. Duration of startup, shutdown, and malfunction periods are limited to 3 hours per occurrence. [SRCAA Regulation I, Section 6.17.D.4 & 6.17.H, 5/5/07]

MRRR: The Subpart Cb lead emission limit, 0.40 mg/dscm corrected to 7% O2, is presumed to have sufficient monitoring in Subpart Cb (because it is a post 1990 standard pursuant to Section 111 and 112 of the FCAA) and therefore is not subject to CAM. However, since SRSWS has proposed to use the Subpart Cb monitoring requirements as their CAM monitoring plan, the monitoring is the same as for Condition 98. The monitoring related to the lead emission limit in Subpart Cb consists of an annual performance testing using EPA Method 29. In addition, 40 CFR 60, Subpart Cb contains opacity monitoring requirements under 40 CFR 60.58b and 40 CFR 60.38b, which are used as an indicator of particulate control device performance to provide assurance that PM, which includes metals like lead, emissions are minimized.

Condition 100: Except as allowed under Condition 78, cadmium emissions shall not exceed 0.035 mg/dscm, corrected to 7% oxygen. [SRCAA Regulation I, Section 6.17.D.3 & 6.17.H, 5/5/07]

MRRR: The monitoring related to the cadmium emission limit in Subpart Cb consists of an annual performance testing using EPA Method 29. In addition, 40 CFR 60, Subpart Cb contains opacity monitoring requirements under 40 CFR 60.58b and 40 CFR 60.38b, which are used as an indicator of particulate control device performance to provide assurance that PM, which includes metals like cadmium, emissions are minimized.

SRSWS has performed an annual cadmium performance test on the baghouse outlet for the past 10+ years. The annual cadmium performance tests have not shown any instances where the cadmium emission limit was exceeded. The highest cadmium emissions measured during the annual performance test on the MWCs since 1991 is 0.002 mg/dscm at 7% O2 in 2005.


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While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this requirement will be met, as it addresses proper operation and maintenance of the control equipment. In addition, the facility must meet other operational requirements that will add assurance that this requirement is met, including:

- keeping spare bags on site to minimize replacement time if a faulty bag is found in the baghouse (see Condition 109 of the permit);
- monitoring the MWC baghouse pressure drop to minimize the likelihood that a problem with the baghouse could go unnoticed (see Condition 4M.j of the permit); and
- continuous monitoring of opacity (since opacity correlates to PM emissions and PM contains cadmium) (see Conditions 81 and 82 of the permit).

Condition 101: Except as allowed under Condition 78, mercury emissions shall not exceed 0.050 mg/dscm, corrected to 7% oxygen, or uncontrolled emissions shall be reduced by at least 85% by weight. [SRCAA Regulation I, Section 6.17.D.5 & 6.17.H, 5/5/07]

MRRR: The permittee is required to test mercury emissions annually. The permittee must maintain records, for a period of 5 years, of each test done. Twice a year the permittee must report to SRCAA, the results of the two most recent performance tests, including any results documenting a violation of the emission limit.

SRSWS has performed an annual mercury performance test on the baghouse outlet since 1999. Until 2010, the annual mercury performance tests have not shown any instances where the Subpart Cb mercury emission limit (which became effective in 1999) was exceeded. In 2010, during the annual mercury test, there was a measured exceedance of the mercury emission limit from Unit 2 (average of three runs was 0.055 mg/dscm). During the 2010 annual test and every other annual source test since 1999, WTE had turned off the carbon injection system so that they didn’t rely upon the carbon system to comply with the mercury or D/F emission limits during the source tests. During the 2010 test, WTE also performed a mercury test with the carbon injection system running at a rate of 2 lb/hr. The results from this test were in compliance with the mercury emission limit.

To address the mercury exceedance that occurred during the 2010 source test, SRCAA issued NOV #7881 to SRSWS on October 27, 2010. As part of the Settlement Agreement to resolve NOV #7881, SRSWS agreed to meet a carbon
injection rate of 2 lb/hr at all times and to meet the carbon injection requirements
given in 40 CFR 60, Subpart Cb (which are incorporated into SRCAA Regulation
I, Section 6.17, “Standards for Municipal Solid Waste Combustors”). The
Subpart Cb carbon injection requirements have been added to this AOP in
Condition 110. In addition, the recordkeeping requirements for the carbon
injection system, given in Subpart Cb, are now required to be met at all times.

With the carbon injection system required to be in continuous operation at a
minimum injection rate equivalent to the injection rate during the most recent
source test and associated recordkeeping requirements, an annual performance
test should be adequate monitoring to assure compliance with the mercury
emission limit.

[NOC #170, Conditions B.1, B.2, B.3, & B.4, 3/3/88 as revised on 8/31/89,
11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [SRCAA Regulation I, Section

While not a part of the required MRRR for this requirement, the operation and
maintenance plan (see Condition 59 above) will also add assurance that this
requirement will be met, as it addresses proper operation and maintenance of
the control equipment. In addition, the facility must meet other operational
requirements that will add assurance that this requirement is met, including:

- maintaining the carbon injection level at that present during the most recent
  source test (see Condition 112);
- keeping spare bags on site to minimize replacement time if a faulty bag is
  found in the baghouse (see Condition 109 of the permit);
- maintaining the MWC baghouse inlet temperatures below a specified limit
  (see Condition 110 of the permit);
- monitoring the MWC baghouse pressure drop to minimize the likelihood that a
  problem with the baghouse could go unnoticed (see Condition 4M.j of the
  permit); and
- continuous monitoring of opacity (since opacity correlates to PM emissions
  and PM may contain mercury) (see Conditions 81 and 82 of the permit).

Condition 102: Whenever solid waste is burned,

a. A combustion gas retention time of at least one second shall be maintained in
the combustion zone at a minimum temperature of 1800°F; and

b. The final combustion zone temperature of the MWC shall not be below 1800°F
for any 15-minute average, nor below 1600°F for any individual reading.
The superheater outlet temperature may be used as a surrogate measure of the final combustion zone temperature. In such case, except during periods of start-up, the superheater outlet temperature shall not be less than 900°F, based on a 15-minute average. Periods of startup are limited to 24 hours per occurrence, provided that SRCAA approved operating procedures are followed. See Condition 1S.a.iv for startup, shutdown, malfunction, and/or upset conditions provisions.

An alternate temperature may be used if the procedure in Condition 8S is used.

[Condition 8S of this permit, see Section III. STREAMLINED REQUIREMENTS]

MRRR: In a letter dated April 27, 1994, SRCAA approved SRSWS’s proposed procedures (contained in Wheelabrator memo, December 7, 1993) to use a correlated minimum value of 900° F, based on the temperature at the superheater outlet as a means to demonstrate compliance with the requirement to maintain a minimum temperature of 1800° F in the combustion zone. Therefore, the permittee is required to continuously monitor the superheater outlet temperature. Records of the monitoring data must be kept and summary data must be reported to SRCAA monthly.

Originally, the approval of SRSWS’s proposed procedures to use a correlated superheater value of 900° F contained a 3-hour startup exclusion whereby the minimum superheater temperature standard did not apply. However, in recent years, an issue has arisen with the 3-hour startup exclusion when the units come back on-line after a scheduled outage. The facility has several scheduled outages every year when they perform maintenance work, including boiler tube inspections, tube cleaning, and tube replacements. When the units come back on-line with clean and/or new superheater tubes, the improved heat transfer leads to more efficient heat transfer across the superheater tubes. This more efficient heat transfer causes lower superheater outlet temperature readings because the temperature probes are downstream of the superheaters. As a result, SRSWS cannot achieve the 900° F superheater temperature right away when the facility comes back on-line after a scheduled outage. As a result, SRCAA revised the superheater requirements to allow for a 24 hour startup provision whereby the minimum superheater standard does not apply, provided that SRCAA approved operating procedures are followed.

[WAC 173-434-170, 12/22/03] [PSD-88-1B, Condition 13 & 28, 9/1/89 as revised on 2/9/96] [NOC #170, Condition D.1, E.2, & F.3, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 103: During all start ups, natural gas shall be used to preheat the municipal waste
combustors to a minimum temperature of 700°F, measured at the superheater exit, prior to feeding solid waste. During all shutdown procedures, natural gas shall be used to minimize emissions to the maximum extent practical while any solid waste is still burning. [NOC #170, Condition D.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

MRRR: The permittee is required to continuously monitor the superheater outlet temperature. Records of the monitoring data must be kept and summary data must be reported to SRCAA monthly.

[WAC 173-434-170, 12/22/03] [PSD-88-1B, Condition 13 & 28, 9/1/89 as revised on 2/9/96] [NOC #170, Condition D.1, E.2, & F.3, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 104: The air distribution shall be fully controllable where pressurized air is introduced and the airflow shall be monitored and recorded. [WAC 173-434-160(1)(d), 12/22/03] [PSD-88-1B, Condition 28, 9/1/89 as revised on 2/9/96]

MRRR: The permittee must continuously monitor the combustion air distribution. Records of all 1-hour average airflow rates of pressurized combustion air introduced into each MWC must be kept. [WAC 173-434-160(5), 12/22/03] [PSD-88-1B, Condition 28, 9/1/89 as revised on 2/9/96] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 105: Only solid waste and natural gas shall be burned in the combustion chamber. Solid waste shall be determined consistent with the mediated agreements as detailed in Tony Grover’s (Department of Ecology) memorandum dated March 2, 1998. [NOC #170, Condition D.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

MRRR: The permittee is required to keep records of the types and amounts of fuels burned daily. The daily amounts of natural gas and solid waste burned must be reported to SRCAA in monthly reports. [NOC #170, Condition F.1 & F.2, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 106: No more than 150 tons per month of out-of-county oil and fuel line filters and petroleum contaminated commercial wastes may be accepted by the facility [Mediated Agreement 3, detailed in Tony Grover’s (Department of Ecology) memorandum dated 3/2/98, as clarified in letter from SRCAA dated 8/6/98 - STATE/LOCAL ONLY]

MRRR: The permittee is required to keep monthly records of the amount of out-of-county
oil and fuel line filters and petroleum contaminated commercial wastes accepted by the facility. A summary of the non-typical wastes received by the facility must be submitted to SRCAA semi-annually. [Mediated Agreement 3, detailed in Tony Grover’s (Department of Ecology) memorandum dated 3/2/98, as clarified in letter from SRCAA dated 8/6/98] – STATE/LOCAL ONLY [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 107: Petroleum contaminated commercial waste materials (adsorbent materials, etc…) from spills of 1000 gallons or more shall not be accepted by the facility [Mediated Agreement 3, detailed in Tony Grover’s (Department of Ecology) memorandum dated 3/2/98, as clarified in letter from SRCAA dated 8/6/98 - STATE/LOCAL ONLY]

MRRR: For petroleum contaminated commercial waste materials (adsorbent materials, etc.) received by the facility that are generated from spill clean up activities, the permittee is required to keep records of the total volume of the spill. A summary of the non-typical wastes received by the facility must be submitted to SRCAA semi-annually. [Mediated Agreement 3, detailed in Tony Grover’s (Department of Ecology) memorandum dated 3/2/98, as clarified in letter from SRCAA dated 8/6/98] – STATE/LOCAL ONLY [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 108: Only natural gas shall be used to fire the auxiliary burners. The annual capacity factor for use of natural gas, as determined by 40 CFR Part 60 Subpart Db shall be less than 10%. If the capacity factor is greater than 10%, then the facility shall be subject to 40 CFR 60.44b. [PSD-88-1B, Condition 26(b), 9/1/89 as revised on 2/9/96]

MRRR: The permittee must keep records of the amount of natural gas used and calculate the annual capacity factor (12-month rolling average) at the end of each month. Records must be kept of each calculated annual capacity factor. [WAC 173-434-110, 12/22/03] [PSD-88-1B, Condition 28, 9/1/89 as revised on 2/9/96] [WAC 173-400-115(1), 11/28/12] [40 CFR § 60.49b(d), 2006] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 109: A spare set of bags (1/4 of the total number) shall be maintained on the premises at all times. [PSD-88-1B, Condition 17, 9/1/89 as revised on 2/9/96]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 110: The inlet temperature to each MWC baghouse, based on a four-hour block average, shall not exceed the following:

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a. Except as otherwise allowed in SRCAA Regulation I, Section 6.17.E, 17°C above the maximum demonstrated particulate matter control device temperature as determined by the procedures in SRCAA Regulation I, Section 6.17.H; and

b. 300°F, unless approved under Condition D.3 of NOC #170 and Condition 15 of PSD-88-1B.

[Condition 9S of this permit, see Section III. STREAMLINED REQUIREMENTS]

MRRR: The permittee must determine the maximum demonstrated particulate matter control device temperature during each annual performance test. The permittee must maintain records, for a period of 5 years, of each test done.

The permittee must continuously monitor the MWC baghouse inlet temperatures to determine whether the temperature is equal to or less than 17°C above the maximum demonstrated particulate matter control device temperature (never to exceed 300°F). Records of the monitoring data must be kept and summary data must be reported to SRCAA monthly. Twice a year the permittee must submit a summary of monitored data and report any deviations from the requirement.

[WAC 173-434-170, 12/22/03] [PSD-88-1B, Condition 28, 9/1/89 as revised on 2/9/96] [SRCAA Regulation I, Section 6.17.H & 6.17.I, 5/5/07] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 111: The maximum load level or allowable firing rate of each MWC, as measured by steam flow, shall not exceed the following:

- 110% of the maximum demonstrated MWC unit load level, during the last dioxins/furans performance test, except as otherwise allowed in SRCAA Regulation I, Section 6.17.E; and

- the highest level at which compliance has been demonstrated during any source test performed on the MWC.

[Condition 10S of this permit, see Section III. STREAMLINED REQUIREMENTS]

MRRR: The permittee must determine the maximum demonstrated MWC unit load level during each annual performance test. The permittee must maintain records, for a period of 5 years, of each test done.

The permittee must continuously monitor and keep records of the MWC load to determine whether the load is equal to or less than 110% above the maximum demonstrated MWC unit load during the last dioxins / furans performance test.
(never to exceed the maximum level at which compliance has been demonstrated during any source test performed on the MWC). Twice a year the permittee must submit a summary of monitored data and report any deviations from the requirement.

[SRCAA Regulation I, Section 6.17.H & 6.17.I, 5/5/07] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 112: Except as provided in Condition 78 and as otherwise allowed in SRCAA Regulation I, Section 6.17.H, the carbon injection system operating parameter(s) that are the primary indicator(s) of the carbon mass feed rate (8-hour block average) must equal or exceed the level(s) documented during the last performance test, as described in SRCAA Regulation I, Section 6.17.H. [SRCAA Regulation I, Section 6.17.H, 5/5/07] [NOC #1057, Condition 5.b., 2/14/01]

MRRR: The permittee must determine the carbon injection rate during each annual performance test. The permittee must maintain records, for a period of 5 years, of each test done.

The permittee must monitor the carbon injection rate using two independent methods to determine whether the carbon injection rate is equal to or greater than the level present during the most recent test. In addition, the permittee must use another carbon injection operational indicator to provide additional verification of proper carbon injection system operation. Twice a year the permittee must submit a report of any deviations from the carbon injection rate requirements.

[SRCAA Regulation I, Section 6.17.H & 6.17.I, 5/5/07] [NOC #1057, Condition 5.a.,c.,d, & e., 2/14/01] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

Condition 113: Sampling ports meeting the requirements of 40 CFR Part 60, Appendix A, must be provided in the ducts following the combustor/boilers and preceding the spray dry absorbers. [NOC #170, Condition B.5, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 114: Sampling ports meeting the requirements of 40 CFR Part 60, Appendix A, must be provided in the ducts downstream of the baghouses. [PSD-88-1B, Condition
Condition 115: The MWC units shall not be operated at any time unless one of the following persons is on duty and at the facility: a chief facility operator or shift supervisor who is fully certified either with the American Society of Mechanical Engineers or a State certification program deemed to be equivalent by EPA, or a chief facility operator or shift supervisor who has obtained a provisional operator certification from either the American Society of Mechanical Engineers or a State certification program deemed to be equivalent by EPA and is scheduled to take the full certification exam, unless otherwise allowed in SRSWS Regulation I, Section 6.17.F. A provisionally certified control room operator may stand-in for a certified plant or shift supervisor when they are off-site for (1) periods of up to eight hours without notification of SRSWS, (2) periods up to two weeks if SRSWS is notified, and (3) periods longer than two weeks with SRSWS approval.

MRRR: Per SRSWS Regulation I, Section 6.17.I, the permittee is required to keep records of certifications for employees.

[SRCAA Regulation I, Section 6.17.I, 5/5/07] [WAC 173-401-615(1) & (2), 9/16/02]

Condition 116: A copy of NOC #1057 shall be kept on site and made available to SRSWS personnel upon request. [NOC #1057, Condition 3, 2/14/01 - STATE/LOCAL ONLY]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 117: The carbon injection system shall be maintained in proper working condition. [NOC #1057, Condition 4, 2/14/01 – STATE/LOCAL ONLY]

MRRR: The permittee is required to perform periodic checks and maintenance on the carbon injection system at least as frequently as recommended in the manufacturer’s operation and maintenance manual. The permittee is required to keep records of all periodic checks performed on the carbon injection system; and dates and nature of all maintenance performed on the carbon injection system.

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system. [NOC #1057, Condition 4, 2/14/01 – STATE/LOCAL ONLY]

Condition 118: The U2A urea to ammonia reagent conversion equipment for the NOx control system shall be maintained in proper working condition. [NOC #1241, Condition 3, 10/8/04 – STATE / LOCAL ONLY]

MRRR: The permittee is required to implement an operation and maintenance plan for the U2A urea to ammonia reagent conversion equipment for the NOx control system. The plan shall include, at a minimum:

a. A description and schedule for all manufacturer recommended operation and maintenance activities; and
b. A description and schedule for periodic equipment inspections.

Maintenance records must be kept of the dates and nature of all manufacturer recommended operation and maintenance performed on the equipment, dates and results of all equipment inspections performed, and dates and nature of any other maintenance performed. [NOC #1241, Condition 3, 10/8/04 – STATE / LOCAL ONLY]

There are several air quality requirements (e.g., in the NOC, PSD, 40 CFR Part 60, etc…) that are either one-time MWC requirements that have been fulfilled, that were included for informational purposes only, or for some other reason no longer apply. These conditions are listed below and are not included in SRSWS’s operating permit.

<table>
<thead>
<tr>
<th>Citation</th>
<th>Description</th>
<th>Reason not included in the permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSD-88-1B, Condition 23, 9/1/89 as revised on 2/9/96</td>
<td>This condition requires an initial performance test.</td>
<td>This is a one-time condition that has been met.</td>
</tr>
<tr>
<td>SRCAA Regulation I, Section 6.17.H (initial performance testing and initial performance evaluations), 5/5/07</td>
<td>Portions of this section of SRCAA’s regulation requires an initial performance test for various pollutants and initial performance evaluations of the facility’s continuous emission monitoring system (CEMS).</td>
<td>The initial performance test was completed in May of 2000. The performance evaluation of the CEMS was completed during the facility’s first year of operation. Since that time the CEMS has passed all quarterly cylinder gas audits (CGAs) and all relative accuracy test audits (RATAs). Continued annual testing, CGAs, and RATAs are required under the operating permit.</td>
</tr>
<tr>
<td>SRCAA Regulation I, Section 6.17.I (initial performance test report), 5/5/07</td>
<td>Portions of this section of SRCAA’s regulation require the permittee to submit an initial performance test report documenting the results from the initial performance test.</td>
<td>The initial performance test report was submitted to SRCAA in September of 2000.</td>
</tr>
<tr>
<td>40 CFR § 60.68 &amp; § 60.46b(b) &amp; (d)</td>
<td>This is an initial performance test requirement.</td>
<td>The facility has performed the initial performance test.</td>
</tr>
<tr>
<td>Citation</td>
<td>Description</td>
<td>Reason not included in the permit</td>
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<tr>
<td>40 CFR §60.8 &amp; § 60.54</td>
<td>This is an initial performance test requirement.</td>
<td>The facility has performed the initial performance test.</td>
</tr>
<tr>
<td>NOC #1057, Condition 1, 2/14/01 – STATE/LOCAL ONLY</td>
<td>This is an initial start-up notification requirement</td>
<td>The facility has met the start-up notification requirement.</td>
</tr>
<tr>
<td>NOC #1057, Condition 2, 2/14/01 – STATE/LOCAL ONLY</td>
<td>This is a requirement to commence construction within 18 months of receipt of the approval</td>
<td>The facility has completed construction of the equipment covered under NOC #1057</td>
</tr>
<tr>
<td>NOC #1241, Condition 1, 10/8/04 – STATE/LOCAL ONLY</td>
<td>This is an initial start-up notification requirement</td>
<td>The facility has met the start-up notification requirement.</td>
</tr>
<tr>
<td>NOC #1241, Condition 2, 10/8/04 – STATE/LOCAL ONLY</td>
<td>This is a requirement to commence construction within 18 months of receipt of the approval</td>
<td>The facility has completed construction of the equipment covered under NOC #1241</td>
</tr>
<tr>
<td>SRCAA Regulation I, Section 6.17.F, which adopts the requirements from 40 CFR 60.54b(a), (b), (d), 5/5/07</td>
<td>These are initial operator training and certification requirements that were required to be met by December 1, 1999</td>
<td>The initial training and certification requirements have been met.</td>
</tr>
</tbody>
</table>

**Miscellaneous Units Emission Limitations**

This section covers miscellaneous significant emission units located at the SRSWS facility. The three units that fall into this category are the lime silo, the ash handling system scrubber, located in the ash handling building, and a diesel fired fire pump engine rated at 235 hp.

It should be noted that emissions from the lime silo are controlled by a baghouse that exhausts inside a building. Normally, SRCAA does not consider such sources to be emission points (although a vent located near such a source could be an emission point). However, in the PSD permit issued for the facility, there is a grain loading requirement for the lime silo baghouse. When SRSWS asked Ecology whether the requirement still applies, even though the unit exhausts inside, Ecology responded that the requirement applies. As such the requirement must be included in the air operating permit. However, in keeping with SRCAA’s treatment of such unit at other facilities, the general requirements (e.g., 20% opacity, 0.1 gr/dscf, etc…) are not included in the permit.

The following requirement(s) are included in this subsection.

**Condition 119:** Particulate matter emissions from the lime storage silo shall not exceed 0.01 grains per actual cubic foot. [PSD-88-1B, Condition 10, 9/1/89 as revised on 2/9/96]

**MRRR:** Since the lime silo exhausts inside, it is not possible to do visual emission (i.e., opacity) readings, per EPA Method 9 or Ecology Method 9A. Therefore, the

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monitoring focuses on ensuring that the baghouse that controls particulate emissions from the lime silo is operating properly. The permittee is required to monitor the pressure drop across the baghouse and provide a read-out of the pressure drop in the control room. [PSD-88-1B, Condition 16, 9/1/89 as revised on 2/9/96]

Condition 120: A copy of NOC #934 shall be kept on site and made available to SRCAA personnel upon request. [NOC #934, Condition 1, 10/27/00 as revised on 4/10/06 and 4/14/06 - STATE/LOCAL ONLY]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 121: The scrubber system shall be maintained in proper working condition. [NOC #934, Condition 3, 10/27/00 as revised on 4/10/06 and 4/14/06 - STATE/LOCAL ONLY]

MRRR: The permittee is required to develop and implement an operation and maintenance plan for the scrubber, which includes a schedule for maintaining the blower bearings, drive, and motor; periodic checks of the irrigation system and piping; daily checks of the pressure drop across the scrubber section to ensure it is within the normal operating range of 6-10 inches of water; and periodic checks of the mist eliminator to make sure there is no pluggage. Maintenance records shall be kept for the previous 5 years of operation.

In addition, the scrubber system is required to be equipped with a pressure drop sensor across the scrubber section. A read-out from the sensor shall be maintained in the control room in a location that can be readily observed by staff responsible for maintaining proper equipment operating parameters. When the pressure drop across the scrubber section falls outside the normal operating range of 6.0 to 10.0 inches of water, prompt action is required to bring the pressure drop back into the normal operating range. Action shall be initiated upon discovery and may include, but is not limited to, dispatching an employee to investigate, notifying maintenance and entering a work order into the plant’s preventative maintenance program, shutting down the scrubber, etc…. If corrective action is anticipated to take longer than eight hours to complete (e.g., parts must be ordered, etc…), the scrubber must be shut down until repairs can be made.

[NOC #934, Condition 2 & 3, 10/27/00 as revised on 4/10/06 and 4/14/06 - STATE/LOCAL ONLY]

Condition 122: On and after May 3, 2013, the fire pump engine oil and filter must be changed
after every 500 hours of operation or annually, whichever comes first. The permittee may utilize an oil analysis program as described in 40 CFR 63.6625(i) in order to extend the oil change requirement. [40 CFR 63.6602, 8/20/10] [WAC 173-400-075, 11/28/12]

**MRRR:** The monitoring for this federal condition is given in the rule, 40 CFR 63, Subpart ZZZZ. On and after May 3, 2013, the permittee must develop and follow a maintenance plan for the fire pump engine which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Manufacturer’s emission-related written operation and maintenance instructions may be used for the maintenance plan. Records must be kept of the maintenance conducted on the fire pump engine in order to demonstrate that the engine was operated and maintained according to the maintenance plan. [40 CFR 63.6625, 63.6655, & 63.6660, 8/20/10] [WAC 173-400-075, 11/28/12]

**Condition 123:** On and after May 3, 2013, the fire pump engine air cleaner must be inspected every 1,000 hours of operation or annually, whichever comes first. [40 CFR 63.6602, 8/20/10] [WAC 173-400-075, 11/28/12]

**MRRR:** The monitoring is the same as for Condition 122. [40 CFR 63.6602, 8/20/10] [WAC 173-400-075, 11/28/12]

**Condition 124:** On and after May 3, 2013, all hoses and belts on the fire pump engine must be inspected every 500 hours of operation or annually, whichever comes first, and replaced as necessary. [40 CFR 63.6602, 8/20/10] [WAC 173-400-075, 11/28/12]

**MRRR:** The monitoring is the same as for Condition 122. [40 CFR 63.6602, 8/20/10] [WAC 173-400-075, 11/28/12]

**Condition 125:** On and after May 3, 2013, the fire pump engine’s time spent at idle shall be minimized and the engine’s startup time at startup shall be minimized to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625, 8/20/10] [WAC 173-400-075, 11/28/12]

**MRRR:** The monitoring is the same as for Condition 122. [40 CFR 63.6602, 8/20/10] [WAC 173-400-075, 11/28/12]

**Condition 126:** On and after May 3, 2013, the fire pump engine must be operated and maintained in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times. [40 CFR 63.6605, 8/20/10] [WAC 173-400-075, 11/28/12]
MRRR: The monitoring is the same as for Condition 122. [40 CFR 63.6602, 8/20/10] [WAC 173-400-075, 11/28/12]

Condition 127: On and after May 3, 2013, the fire pump engine may be operated for up to 100 hours per year for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. There is no time limit on the use of the fire pump engine for emergency situations. [40 CFR 63.6640, 8/20/10] [WAC 173-400-075, 11/28/12]

MRRR: The monitoring for this federal condition is given in the rule, 40 CFR 63, Subpart ZZZZ. On and after May 3, 2013, a non-resettable hour meter must be installed on the fire pump engine. Records shall be kept of the hours of operation of the fire pump engine that are recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [40 CFR 63.6625, 63.6655, & 63.6660, 8/20/10] [WAC 173-400-075, 11/28/12]

Condition 128: On and after May 3, 2013, the fire pump engine may be operated for up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generator income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity, except as allowed under 40 CFR 63.6640(f)(iii). [40 CFR 63.6640, 8/20/10] [WAC 173-400-075, 11/28/12]

MRRR: The monitoring is the same as for Condition 127. [40 CFR 63.6625, 63.6655, & 63.6660, 8/20/10] [WAC 173-400-075, 11/28/12]

Fugitive Emission Limitations
This subsection of the permit contains applicable emission limitations applying to fugitive emissions at the facility. The sources of fugitive emissions covered under this subsection include ash handling, roadways, and parking lots. The following requirements are included in this subsection.

Condition 129: Reasonable precautions shall be taken to prevent fugitive emissions which includes paving normally traveled roadways within the site and enclosing or hooding material transfer points. [PSD-88-1B, Condition 28, 9/1/89 as revised on 2/9/96] [WAC 173-434-130(5), 12/22/03]
MRRR: The permittee is required to investigate any complaints that it may receive regarding fugitive dust. If problems are found corrective action must be taken. Records of each complaint received, along with the results of the subsequent investigation, must be kept. [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this requirement will be met, as it must contain a program for keeping traveled roadways free of visible dust.

Condition 130: All roads used on a daily basis shall be paved and be kept clean to avoid fugitive emissions. In addition, all parking areas used on a daily basis shall either be paved or graveled to prevent fugitive emissions. All graveled areas must be properly maintained, which may include re-application of the gravel and/or application of an appropriate dust palliative to minimize dust. [NOC #170, Condition C.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

MRRR: The permittee is required to investigate any complaints that it may receive regarding fugitive emissions from roads or parking lots. If problems are found corrective action must be taken. Records of each complaint received, along with the results of the subsequent investigation, must be kept. [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this requirement will be met, as it must contain a program for keeping traveled roadways free of visible dust.

Condition 131: The truck access doors to the facility receiving area must remain closed except during normal working shifts when refuse is being received or transferred, or during short durations to allow vehicle passage. [NOC #170, Condition C.5, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12] [PSD-88-1B, Condition 21, 9/1/89 as revised on 2/9/96]

MRRR: The permittee is required to investigate any complaints that it may receive regarding odors from the tipping area. If problems are found corrective action must be taken. Records of each complaint received, along with the results of the subsequent investigation, must be kept. [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this
requirement will be met, as it must contain proper operating procedures for the facility.

Condition 132: The ash handling requirements of Condition 2S shall be met, including:

a. wetting of ash;

b. transporting ash in covered trucks;

c. controlling excess water from transport trucks;

d. keeping ash truck loading area enclosed;

e. using enclosed conveyors and chutes; and

f. limiting fugitive ash emissions in accordance with SRCAA Regulation I, Section 6.17.G (visible emissions of ash from any ash conveying system must not be discharged for more than 5% of the observation period), except as otherwise allowed in Condition 2S.h.i and ii.

[Condition 2S of this permit, see Section III. STREAMLINED REQUIREMENTS]

MRRR: The permittee is required to investigate any complaints that it may receive regarding ash handling. If problems are found, corrective action must be taken. Records of each complaint received, along with the results of the subsequent investigation, must be kept.

In addition, the permittee is required to test fugitive ash emissions annually. The permittee must maintain records, for a period of 5 years, of each test done. Twice a year the permittee must report to SRCAA, the results of the two most recent performance tests, including any results documenting a violation of the emission limit.

[SRCAA Regulation I, Section 6.17.H & 6.17.I, 5/5/07] [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this requirement will be met, as it must contain a program for keeping traveled roadways free of visible dust.

Design Parameter Requirements
This subsection of the permit contains applicable design parameter requirements that apply to the facility. The following requirements are included in this subsection.
Condition 133: No use of excess stack height or dispersion techniques to meet ambient air quality standards or PSD increments except as allowed under WAC 173-400-200. [WAC 173-400-200, 1/10/05(2/19/91)]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 134: No varying of emissions according to atmospheric conditions or ambient concentrations except as allowed under WAC 173-400-205. [WAC 173-400-205, 2/19/91]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 135: Refuse must be burned in an approved multi-chambered incinerator or equipment found to be equally effective by the Control Officer. (The two MWCs have been approved under NOC #170). [SRCAA Regulation I, Section 6.03.B, 3/4/04 – STATE / LOCAL ONLY]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 136: Operation of an incinerator is allowed during daylight hours only unless otherwise approved by the Control Officer. (The two MWCs are approved for 24-hour per day operation). [SRCAA Regulation I, Section 6.03.C & 6.03.D, 3/4/04 – STATE / LOCAL ONLY]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

Condition 137: To minimize odor, fugitive emissions and to maintain a negative pressure in the tipping area, combustion air shall be withdrawn from the tipping area, or an equivalent means of odor and fugitive emissions control acceptable to SRCAA shall be used. [WAC 173-434-160(4), 12/22/03] [PSD-88-1B, Condition 28 & 22, 9/1/89 as revised on 2/9/96] [NOC #170, Condition C.10, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

MRRR: The permittee is required to investigate any complaints that it may receive regarding odors. If problems are found corrective action must be taken. Records of each complaint received, along with the results of the subsequent...
investigation, must be kept. [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this requirement will be met, as it contains proper operating procedures for the facility.

Condition 138: The tipping area shall be designed and maintained to prevent outflow from the area to ambient air. [PSD-88-1B, Condition 22, 9/1/89 as revised on 2/9/96]

MRRR: The permittee is required to investigate any complaints that it may receive regarding odors or emissions from the tipping floor. If problems are found corrective action must be taken. Records of each complaint received, along with the results of the subsequent investigation, must be kept. [WAC 173-401-615(1) & (2), 9/16/02] Note: At least a portion of this MRRR is gapfilling.

While not a part of the required MRRR for this requirement, the operation and maintenance plan (see Condition 59 above) will also add assurance that this requirement will be met, as it contains proper operating procedures for the facility.

Condition 139: The boiler baghouses shall have maximum effective air to cloth ratios of 4.0:1.0 (Net - one module off-line for maintenance) and shall be equipped with an automatic cleaning mechanism. [PSD-88-1B, Condition 17, 9/1/89 as revised on 2/9/96] [NOC #170, Condition D.5, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12]

MRRR: No monitoring is required. As with all permit terms, SRSWS must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

STREAMLINED REQUIREMENTS
SRSWS has asked that SRCAA streamline a number of requirements that apply to the facility. Streamlining means a number of similar, applicable requirements (e.g., particulate matter emission limits that are in different units of measure or differ in other ways) are replaced by a single requirement that is at least as stringent as each of the underlying requirements. In some cases the streamlined condition will simply incorporate the most stringent of the underlying requirements. In other cases, the streamlined condition may be a hybrid of the underlying requirements to ensure that it is at least as stringent as all of these requirements. By streamlining, similar conditions can be condensed into a single condition, thereby reducing the
complexity of the permit and improving its implementation. EPA has written guidance, “White Paper 2 for Improved Implementation of the Part 70 Operating Permits Program” [as distributed under memorandum from Lydia N. Wegman, March 5, 1996]. The guidance states that “In cases where compliance with a single set of requirements effectively assures compliance with all requirements, compliance with all elements of each of the overlapping requirements may be unnecessary and could needlessly consume resources.”

With a few exceptions (e.g., Operations Manual and fugitive ash emissions), the streamlined conditions do not include the emission limits contained in SRCAA Regulation I, Section 6.17, which implement the emission guidelines promulgated by the United States Environmental Protection Agency (EPA) in 40 CFR Part 60, Subpart Cb. The Subpart Cb emission limits are not included because these emission limits contain a built-in startup, shutdown, and malfunction (S/S/M) exclusion in the regulation. Most of the other emission limits that apply to the facility (e.g., NOC requirements, PSD requirements, etc.) do not have a startup, shutdown, and malfunction exclusion. In order for excess emissions during startup, shutdown, and/or malfunction from these other non-Subpart Cb emission limits to be excused from penalties, the permittee must follow the requirements given in Conditions 20, 21, and/or 1S.a.iv.

All of the streamlined conditions in the SRSWS’s draft permit are contained in Section III. STREAMLINED REQUIREMENTS. At the end of each condition, the underlying requirements for that condition are listed.

As stated in EPA’s guidance, failure to meet the streamlined condition is a violation of the permit, but is not necessarily a violation of all of the underlying requirements. If a violation of a streamlined condition occurs, the underlying requirements must be reviewed to determine which, if any, have also been violated.

EPA’s guidance requires that the following must be considered when making stringency determinations, regarding applicable requirements.

- emission limit formats (emission limits in different forms must be converted to a common format and/or units of measure, or a correlation established between the different formats, prior to comparisons);
- effective dates of compliance;
- transfer or collection efficiencies;
- averaging times (however, in no event may requirements which are specifically designed to address a particular health concern be subsumed into a requirement that is any less protective); and
- test methods prescribed in the applicable requirements.

In the case of SRSWS’s facility, the issue of compliance dates need not be considered because there are no requirements that have a future compliance date. In addition, the issue of collection efficiencies is not relevant to any of the streamlining that is being proposed. The following discussion will focus on the remaining considerations that must be taken into account.
when developing streamlined conditions (i.e., limit formats, averaging times, and test methods, as applicable).

**Streamlined condition 1S – Operation and Maintenance**

This is a streamlined condition for underlying requirements addressing operation and maintenance at the facility. The condition reads as follows:

1S. **Operation and Maintenance.** The permittee shall meet the following operation and maintenance requirements:

a. The permittee shall follow the SRCAA approved site-specific operation manual, dated December 2011, or a subsequent SRCAA approved version. The operating manual shall include, at a minimum:

i. a summary of applicable requirements under this permit;
ii. a description of basic combustion theory applicable to a MWC;
iii. procedures for receiving, handling, and feeding municipal solid waste;
iv. procedures for MWC startup, shutdown, and malfunction, including procedures for responding to periodic upset or off-specification conditions. Startups shall be defined according to 40 CFR 60.58b(a)(1), as adopted in SRCAA Regulation I, Section 6.17.H. Shutdown procedures shall specify the conditions that will initiate MWC shutdown, the expected time for completion of the process and a step-by-step description of what will occur. The procedures shall be followed during all MWC operations and may provide an affirmative defense to excess emissions that occur during normal startup and shutdown events, provided the startup and shutdown procedures include the provisions given in WAC 173-400-107 (until the effective date of EPA’s incorporation of WAC 173-400-108 and 173-400-109 into the Washington state implementation plan) or WAC 173-400-108 and WAC 173-400-109 (on and after the effective date of EPA’s incorporation of WAC 173-400-108 and 173-400-109 into the Washington state implementation plan) and the notification requirements given in Condition 20 are met. In the case of malfunction or upset events, the permittee may request that excess emissions be excused under Condition 20;
v. procedures for maintaining proper combustion air supply levels;
vi. procedures for operating the MWC within the standards of this permit, including the carbon injection system operational indicator used to provide additional verification of carbon injection system operation under Condition 5M. The manual must describe the basis for selecting the indicator and operator response to the indicator alarm;
vii. procedures for minimizing particulate matter carryover;
viii. procedures for handling ash, including a summary of the requirements in Condition 2S below and procedures for ensuring that these requirements are
ix. procedures for monitoring MWC emissions, including proper data validation procedures for normal operations, startups, shutdowns, malfunctions, and/or upset conditions;
x. a program for keeping normally traveled roadways free of visible dust;
xi. procedures for recording and investigating complaints received;
ixii. procedures to ensure scheduling and completing of routine maintenance activities, required to keep air pollution control equipment, and other equipment that has the potential to affect emissions, in proper operating condition;
ixiii. a description of recordkeeping procedures for maintenance activities;
ixiv. a description of operation and maintenance activities performed on the carbon injection system (O&M plan dated April 2011); and
ixv. other reporting and recordkeeping procedures.

b. The permittee shall establish a training program to review the operating manual, with each person who has responsibilities affecting the operation of the MWCs, including chief facility operators, shift supervisors, control room operators, ash handlers, maintenance personnel, and crane/load handlers, according to the following schedule:

i. initial review shall occur prior to the day when the person assumes responsibilities affecting MWC operation; and

ii. additional reviews shall occur annually.

c. The operating manual shall be kept in a readily accessible location for all persons required to undergo training (see b. above). The operating manual and records shall be available for inspection by SRCAA upon request.

d. The operating manual shall be updated annually. The annual updates shall be submitted to SRCAA for approval within 7 days of completion.

Emissions that result from failure to follow the requirements of the plan may be considered proof that the equipment was not being properly operated and maintained.

[Streamlined condition for the following requirements: 40 CFR § 60.54b(e), (f) & (g) as in effect on 12/1/06 as adopted by reference with minor changes in SRCAA Regulation I, Section 6.17.F, 5/5/07; PSD-88-1B, Condition 18, 25, 26(a), & 31, 9/1/89 as revised on 2/9/96; NOC #170, Conditions D.3, D.6, & G.2, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12; WAC 173-434-090, 9/17/90; WAC 173-434-160(4)(the first sentence), 12/22/03; and 40 CFR § 60.11(d), 2006 as adopted by reference in WAC 173-400-115, 11/28/12]

The following is a discussion of the underlying requirements that are being streamlined and how
compliance with the streamlined condition should assure compliance with the underlying requirement (i.e., that the streamlined condition is at least as stringent as the underlying requirement):

1. 40 CFR § 60.54b(e), (f) & (g) as adopted by reference with minor changes in SRCAA Regulation I, Section 6.17.F, 1/13/99
   • All requirements are specifically included in the streamlined condition.

2. PSD-88-1B, Condition 18, 9/1/89 as revised on 2/9/96
   • This requirement is incorporated directly into the streamlined condition.

3. PSD-88-1B, Condition 25, 9/1/89 as revised on 2/9/96
   • The streamlined condition creates a hybrid requirement where the procedures, used to ensure that equipment affecting emissions is properly maintained, must be included in the operation and maintenance manual. Because the facility must also implement these procedures, it is at least as stringent as the underlying requirement.

4. PSD-88-1B, Condition 26(a), 9/1/89 as revised on 2/9/96
   • This requirement is not enforceable as a practical matter. In addition, it removes any kind of flexibility for the permittee to improve operations (or even make small, minor changes), if such improvements would be contrary to information that was contained in the PSD application, without first receiving approval from Ecology. The proposed streamlined condition is believed to be at least as stringent and more enforceable, as a practical matter, than the underlying condition. The streamlined condition assures that employees are aware of the requirements of the air operating permit and emphasizes those portions of the PSD application that were important enough to include as conditions of approval in the PSD permit.

5. PSD-88-1B, Condition 31, 9/1/89 as revised on 2/9/96
   • This requirement prohibits any activity that is inconsistent with the PSD application and approval. In and of itself, Condition 31 is not enforceable as a practical matter. If the facility is complying with the terms of the air operating permit, and specifically with its operation and maintenance manual, it should be meeting this condition. The streamlined condition is enforceable as a practical matter and is therefore at least as stringent as Condition 31 of the PSD approval.

   • This requirement is incorporated into the streamlined condition.

7. NOC #170, Condition D.6, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12
   • This requirement is incorporated into the streamlined condition except that the same comments for PSD Condition 25 (4. above) apply to the portion that requires O&M
manuals for equipment affecting emissions.

8. NOC #170, Condition G.2, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12;
   - This is a general duty requirement. By implementing the O&M manual and meeting the
     requirements of the operating permit, the permittee will be meeting the general duty
     obligation.

9. WAC 173-434-090, 9/17/90;
   - The streamlined condition incorporates the requirements of WAC 173-434-090. The
     streamlined condition is more stringent, in that it requires annual updates of the manual,
     versus the biennial updates required in WAC 173-434-090.

10. WAC 173-434-160(4) (the first sentence), 12/22/03
    - The streamlined condition is a practical method by which the general obligation to
      maintain and operate the facility properly is achieved. If the permittee complies with the
      streamlined O&M requirement, it should comply with this underlying requirement.

11. 40 CFR § 60.11(d), 1996 as adopted by reference in WAC 173-400-115, 11/28/12 and in
    WAC 173-434-110, 9/17/90
    - The streamlined condition is a practical method by which the general obligation to
      maintain and operate the facility properly can be achieved. If the permittee complies
      with the streamlined O&M requirement, it should comply with this underlying
      requirement.

**Streamlined condition 2S – Ash Handling and Transport**
This is a streamlined condition for underlying requirements, addressing ash handling and
transport at the facility. The condition reads as follows:

**2S. Ash Handling and Transport.** The permittee shall meet the following ash handling and
transport requirements:

a. Residue from the grates, grate siftings, ash from the combustors, economizers,
   superheaters, flyash from the spray dry absorber, and fabric filter hoppers shall be
   transported in closed containers or thoroughly wetted or treated to prevent fugitive
   emissions, prior to further handling;

b. Solid material shall not leave the quench tanks in a dry condition that creates dust;

c. The ash/residue in the storage building must remain sufficiently moist to prevent dust
   during storage and handling operations;

d. Ash and residue, transported from the ash residue storage building, shall be
   transported only in covered trucks or containers. The covers must be in place for the
return trip to the facility. The exterior of the trucks and containers, used to transport the ash, must be inspected and, if necessary, cleaned before leaving the ash storage facility. Cleaning must be done by water spray or an alternative method, approved by Ecology;

e. Excess water from the covered ash trucks shall be controlled, using a method submitted to and approved by Ecology, prior to leaving the site to prevent spillage of excess water onto the public right of way;

f. The ash truck loading area shall be enclosed at all times, except when a person or vehicle is entering or leaving. Time necessary to untarp and/or tarp the containers and time to position the ash containers shall be considered part of the entering and leaving process. During tarping/untarping and placement of ash containers the portion of the ash transport system that delivers ash to the container (i.e., the grizzly feedbelt) shall be turned off;

g. All conveyors and chutes for dry fly ash and dry bottom ash shall be totally enclosed and dust-tight. Dry ash shall be stored inside buildings or other enclosures to prevent entrainment into the outside air; and

h. Except as otherwise allowed in i. and ii. below, emissions of combustion ash from an ash conveying system (including conveyor transfer points) shall not be visible in excess of 5 percent of the observation period (e.g., 9 minutes per 3-hour period), as determined by RM 22 observations.

i. This limit does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems; however, the emissions limit specified does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems.

ii. This limit does not apply during maintenance and repair of ash conveying systems.


The following is a discussion of the underlying requirements that are being streamlined and how compliance with the streamlined condition should assure compliance with the underlying requirement (i.e., that the streamlined condition is at least as stringent as the underlying requirement):

1. PSD-88-1B, Conditions 19, 9/1/89 as revised on 2/9/96
This requirement is incorporated into the streamlined condition.

2. PSD-88-1B, Condition 20, 9/1/89 as revised on 2/9/96
   • This requirement is incorporated into the streamlined condition.

3. NOC #170, Condition C.2, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12
   • This requirement is incorporated into the streamlined condition.

   • This requirement is incorporated into the streamlined condition.

5. NOC #170, Condition C.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12
   • This requirement is incorporated into the streamlined condition.

   • This requirement is incorporated into the streamlined condition.

7. NOC #170, Condition C.7, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12
   • This requirement is incorporated into the streamlined condition.

8. NOC #170, Condition C.9, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12
   • This requirement is incorporated into the streamlined condition.

   • This requirement is incorporated into the streamlined condition.

Streamlined condition 3S – General Opacity Limit
This is a streamlined condition for underlying requirements, addressing opacity limits for those units other than the MWCs. The streamlined condition reads as follows:

3S. General Opacity Limit. Visible emissions from any emission unit, except for the MWCs, shall not exceed 20% for an aggregate of more than three minutes, in any one hour, except as otherwise allowed in WAC 173-400-040(2), as determined using ECOLOGY Method 9A (September 20, 2004). In addition, except for the MWCs, visible emissions from any emission unit shall not be greater than 0% for more than six minutes in any one-hour period, as determined using RM 22. (See Condition 5S for the opacity limit that applies to the MWCs.)
The following is a discussion of the underlying requirements that are being streamlined and how compliance with the streamlined condition should assure compliance with the underlying requirement (i.e., that the streamlined condition is at least as stringent as the underlying requirement):

1. WAC 173-400-040(2), 173-400-040(2)(a), & 173-400-040(2)(b), 3/1/11(8/20/93)
   - This requirement is incorporated into the streamlined condition.

2. WAC 173-434-130(4)(c), 12/22/03
   - This requirement is very difficult to interpret and enforce. It reads, “The opacity as measured visually shall not exceed an average of zero percent from any emissions unit except incinerator stacks for more than six consecutive minutes in any sixty minute period.” The best interpretation of this requirement seems to be that visible emissions are allowed, as long as the emissions do not persist for more than six consecutive minutes. The streamlined condition is more stringent, in that the total time in any one-hour period that visible emissions are observed cannot exceed six minutes. For example, if visible emissions are observed for 5 minutes, then no visible emissions for 2 minutes, and then visible emissions for another 4 minutes. This would not be a violation of WAC 173-434-130(4)(c). It would be a violation of the streamlined condition.

Streamlined condition 4S – MWC Particulate Matter Limit
This is a streamlined condition for underlying requirements, addressing particulate matter emission limits for the two MWCs. The streamlined condition reads as follows:

4S. MWC Particulate Matter Limit. Emissions from each MWC shall not exceed the following:

a. Total particulate matter emissions, as measured using EPA Method 5, including front and back half analysis, but excluding sulfates, chlorides, and ammonium salts, shall not exceed 34 tons per year;

b. Total particulate matter emissions, as measured using EPA Method 5, including front and back half analysis, but excluding sulfates, chlorides, and ammonium salts, shall not exceed 0.020 gr/dscf, corrected to 7% oxygen;

c. Total PM10 emissions, as measured using Ecology Method 19 or EPA Method 5, shall not exceed 0.015 gr/dscf, corrected to 7% oxygen; and

d. Total PM10 emissions, as measured using Ecology Method 19 or EPA Method 5, shall not exceed 23 tons per year.
The streamlined condition is a hybrid of the underlying requirements. The following is a discussion of how compliance with the streamlined condition should assure compliance with each underlying requirement (i.e., that the streamlined condition is at least as stringent as the underlying requirement):

1. PSD-88-1B, Condition 1, 9/1/89 as revised on 2/9/96
   - This requirement, particulate emissions from each MWC shall not exceed 0.020 gr/dscf, corrected to 7% O2 or 34 tons per year, as measured by EPA Method 5, is incorporated into the streamlined condition.

2. PSD-88-1B, Condition 2, 9/1/89 as revised on 2/9/96
   - PSD-88-1B, Condition 2 establishes a PM10 limit with PM10 measured using ECOLOGY Method 19. The standard consists of a concentration of 0.015 gr/dscf PM10, corrected to 7% O2 and an annual limit of 23 tons PM10 per year. State Method 19 measures front half emissions only (i.e., it does not measure condensibles). The PM10 standards of 0.015 gr/dscf, corrected to 7% O2 and 23 tons per year are incorporated into the streamlined condition.

3. NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12
   - NOC #170, Condition A.1 contains a particulate limit of 0.020 gr/dscf, corrected to 7% O2, as measured by EPA Method 5, including back half catch, excluding sulfates, chlorides, and ammonium salts. This particulate limit is incorporated into the streamlined condition.

   Condition A.1 also contains a PM10 limit of 0.015 gr/dscf, corrected to 7% O2, as measured by Ecology Method 19 or EPA Method 5. This is the same as the PSD limit discussed in 2. above which is incorporated into the streamlined condition.

4. 40 CFR § 60.43b(d)(1) as adopted by reference in WAC 173-400-115, 11/28/12 and in WAC 173-434-110, 9/17/90
   - This requirement, 0.1 pounds particulate per MMBTU, except during periods of startup, shutdown, or malfunction, given in 40 CFR 60, Subpart Db, “Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units,” uses the same test method as the particulate matter emission limit in 4S.c above. The 0.1 pounds particulate per MMBTU limit corresponds to 0.073 gr/dscf, so the emission limit of 0.020...
gr/dscf given in the streamlined condition is clearly more stringent.

5. 40 CFR § 60.52(a) as adopted by reference in WAC 173-400-115, 11/28/12 and in WAC 173-434-110, 9/17/90
   - This requirement, 0.18 g/dscm (0.08 gr/dscf), corrected to 12% CO2, given in 40 CFR 60, Subpart E, “Standards of Performance for Incinerators,” uses the same test method as the particulate matter emission limit in 4S.c above. The 0.020 gr/dscf limit given in the streamlined condition is clearly more stringent.

6. WAC 173-434-130(1)(a), 9/17/90
   - This requirement, 0.020 gr/dscf particulate, corrected to 7% O2, is incorporated into the streamlined condition.

7. WAC 173-400-050(1) & (3), 11/28/12
   - WAC 173-400-050(1) states that the test method is EPA Method 5 or an approved procedure contained in the state of Washington test manual. The emission limit contained in the streamlined condition of 0.020 gr/dscf is clearly more stringent.

Streamlined condition 5S – MWC Opacity Limit
This is a streamlined condition for underlying requirements addressing the opacity limit for the two MWCs. The streamlined condition reads as follows:

5S. MWC Opacity Limit. Opacity from each MWC shall:

a. Be less than or equal to 10%, six-minute average, as measured using a continuous opacity monitor, meeting the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1, and operated according to 40 CFR § 60.11;

b. Be less than or equal to 5%, based on either a six-minute average or a six-minute aggregate, whichever is more stringent, as determined using RM 9 for the six-minute average, and Ecology Method 9B for the six-minute aggregate; and

c. Be less than 20%, based on a three-minute aggregate, as determined using Ecology Method 9A.

[Streamlined condition for MWCs for the following requirements as they apply to these units:
PSD-88-1B, Conditions 8 & 9, 9/1/89 as revised on 2/9/96; opacity limit in NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12; WAC 173-400-040(2), 3/1/11; WAC 173-434-130(4), 12/22/03; and SRCAA Regulation I, Section 6.02, 3/4/04 – STATE/LOCAL ONLY]

The streamlined condition is a hybrid of the underlying requirements. The table below lists each underlying requirement that is being streamlined so that all the limits can be compared.
As can be seen from the table above, the proposed streamlined condition, limiting opacity from the MWCs, is at least as stringent as all of the underlying opacity standards.

**Streamlined condition 6S – MWC Sulfur Dioxide Limit**
This is a streamlined condition for underlying requirements, addressing the MWC sulfur dioxide (SO2) emissions. The streamlined condition reads as follows:

**6S. MWC Sulfur Dioxide Limit.** Based on a 24-hour geometric mean determined using RM 19:

- During 95% of the operating time per month, controlled sulfur dioxide emissions from each MWC shall not exceed 25 ppm, corrected to 7% oxygen, or uncontrolled sulfur dioxide emissions from each MWC shall be reduced by at least 85% by weight, whichever is less stringent. Operating time is calculated in accordance with SRCAA Order 93-06, (i.e., based on 24-hour blocks from midnight to midnight); and

- At all times, controlled sulfur dioxide emissions from each MWC shall not exceed 30 ppm, corrected to 7% oxygen, or uncontrolled sulfur dioxide emissions from each MWC shall be reduced by at least 80% by weight, whichever is less stringent.

The above limits are based on 24-hour geometric mean determined using RM19. SO2 emissions shall be measured, using a continuous emissions monitor system designed,
installed, and operated to meet the requirements in 40 CFR Part 60, Appendix B (Performance Specification 2) and Appendix F.

[Streamlined condition for MWCs for the following requirements, as they apply to these units: PSD-88-1B, Condition 3, 9/1/89 as revised on 2/9/96; the sulfur dioxide emission limit in NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12; SRCAA Order #93-06, 8/27/93; WAC 173-400-040(7), 3/1/11(8/20/93)* - see note on page 5; and WAC 173-434-130(3), 12/22/03]

The following is a discussion of the underlying requirements that are being streamlined and how compliance with the streamlined condition should assure compliance with the underlying requirement (i.e., that the streamlined condition is at least as stringent as the underlying requirement):

1. PSD-88-1B, Condition 3, 9/1/89 as revised on 2/9/96
   - The numerical limit in the sulfur dioxide streamlined condition (i.e., 30 ppm, corrected to 7% O2) is more stringent than the limit in Condition 3 of the PSD permit. The PSD limit is 50 ppm, corrected to 7% oxygen, or 80% reduction. The PSD condition does not specify an averaging time when determining compliance using a continuous emission monitor. Historically, compliance with the limit has been determined on a 24-hour geometric mean, which is the same averaging time used in the streamlined condition.

2. The sulfur dioxide emission limit in NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12
   - The numerical limit in the sulfur dioxide streamlined condition (i.e., 30 ppm, corrected to 7% O2) is more stringent than the limit in Condition A.1 of the NOC approval. The NOC limit is 50 ppm, corrected to 7% oxygen, or 80% reduction. The NOC condition specifies a 1-hour average, which was meant to represent best available control technology (BACT). However, after the facility began operating, SRCAA reviewed the BACT requirement and made a determination in SRCAA Order #93-06. In this order, which went through the same public process as for a NOC approval, a new SO2 BACT limit was set. The limit reduced the numerical limit, but increased the averaging time. The order’s limit uses a 24-hour geometric limit, consistent with requirements under federal rules regulating MWCs. As a BACT determination, the limit in the order has been determined to be equivalent to the BACT limit in the NOC. As such, the proposed streamlined limit, which is more stringent than the limit in SRCAA Order #93-06 (see the discussion in 3 below), should be at least as stringent as the SO2 limit in NOC #170.

3. SRCAA Order #93-06, 8/27/93
   - Both the proposed streamlined condition for SO2 and the SRCAA Order limit are two-tiered (i.e., there is a limit that must be met at least 95% of the operating time in any month and a second limit that must never be exceeded). The limit that must be met for at least 95% of the operating time (i.e., 25 ppm or 85% reduction) is the same for both the streamlined condition and the order. The streamlined “never to exceed” limit is 30
ppm (or 80% reduction), corrected to 7% oxygen, which is the limit contained in Order #93-06.

4. WAC 173-400-040(7), 8/20/93
   • The emission limit in WAC 173-400-040(7) is 1000 ppm (1-hour average). While it can be demonstrated, using theoretical information, that the 1000 ppm limit can be exceeded for one hour without exceeding the streamlined condition, even uncontrolled emissions from the MWC are less than the 1000 ppm limit. Compliance with the streamlined condition, in conjunction with compliance with 1S – Operation and Maintenance, which requires proper operation and maintenance of the air pollution control equipment, will be at least as stringent as the SO2 emission limit in WAC 173-400-040(7).

5. WAC 173-434-130(3), 12/22/03
   • The numerical limit in the sulfur dioxide streamlined condition (30 ppm) is more stringent than the limit in WAC 173-434-130(3). The alternate reduction limits are the same, 80% removal. The WAC 173-434 numerical limit is 50 ppm corrected to 7% oxygen. WAC 173-434-130(3) specifies a 1-hour average for the concentration limit. No averaging time is specified for the reduction limit and the rule allows for approval of a method to determine the percent reduction. After the facility began operating, SRCAA reviewed the BACT requirement and the percent reduction requirement and made a determination in SRCAA Order #93-06. In this order, a new SO2 limit was set. The new limit reduced the allowable concentration, but increased the averaging time. The order’s limit uses a 24-hour geometric limit, consistent with requirements under federal rules regulating MWC. As a BACT determination, the limit in the order has been determined to be equivalent to the limit in WAC 173-434-130(3) (see introductory language in Order #93-06). As such, the proposed streamlined condition, which is more stringent than the limit in SRCAA Order #93-06 (see the discussion in 3. above), is at least as stringent as the limit in WAC 173-434-130(3) as well.

Streamlined condition 7S – MWC Hydrogen Chloride Limit
This is a streamlined condition for underlying requirements, addressing the MWC hydrogen chloride (HCl) emissions. The streamlined condition reads as follows:

7S. MWC Hydrogen Chloride Limit. Hydrogen chloride (HCl) emissions from each MWC shall not exceed 29 ppm, corrected to 7% oxygen, or uncontrolled emissions shall be reduced by at least 95% by weight, whichever is less stringent, as measured by RM 26 or 26A.

[Streamlined condition for MWCs for the following requirements as they apply to these units: the hydrogen chloride emission limits (see Condition 4M for continuous emission monitoring requirement) in PSD-88-1B, Condition 4 (the first sentence), 9/1/89 as revised on 2/9/96; the hydrogen chloride emission limit in NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12; and WAC 173-434-130(2), 12/22/03]
The following is a discussion of the underlying requirements that are being streamlined and how compliance with the streamlined condition should assure compliance with the underlying requirement (i.e., that the streamlined condition is at least as stringent as the underlying requirement):

1. The hydrogen chloride emission limit in PSD-88-1B, Condition 4 (the first sentence), 9/1/89 as revised on 2/9/96
   - The streamlined limit for HCl is clearly more stringent than the limit in Condition 4 of the PSD permit. The PSD limit is 50 ppm or 80% reduction, whereas the streamlined limit is 29 ppm or 95% reduction. The test method in the PSD is not established, but requires Ecology approval. Historically, testing for HCl has been done, using the same methods as specified in the streamlined condition (i.e., RM 26 or 26A).

2. The hydrogen chloride emission limit in NOC #170, Condition A.1, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12
   - The streamlined limit for HCl is the same as the HCl limit in Condition A.1 of the NOC approval. The NOC limit is 29 ppm or 95% reduction.

3. WAC 173-434-130(2), 12/22/03
   - The streamlined limit for HCl is more stringent than the limit in WAC 173-434-130(2). The 173-434 limit is 50 ppm or 80% reduction, whereas the streamlined limit is 29 ppm or 95% reduction. The test method in WAC 173-434-130(2) is the same as the streamlined condition (i.e., the test method(s) found in 40 CFR Part 60, Appendix A).

**Streamlined condition 8S – MWC Combustion Temperature & Residence Time Limits**

This is a streamlined condition for underlying requirements, addressing the MWC baghouse combustion temperature and residence time. The streamlined condition reads as follows:

**8S. MWC Combustion Temperature & Residence Time Limits.** Whenever solid waste is burned,

   a. A combustion gas retention time of at least one second shall be maintained in the combustion zone at a minimum temperature of 1800°F; and

   b. The final combustion zone temperature of the MWC shall not be below 1800°F for any 15-minute average, nor below 1600°F for any individual reading.

The superheater outlet temperature may be used as a surrogate measure of the final combustion zone temperature. In such case, except during periods of start-up, the superheater outlet temperature shall not be less than 900°F, based on a 15-minute average. Periods of startup are limited to 24 hours per occurrence, provided that SRCAA approved operating procedures are followed. See Condition 1S.a.iv for startup, shutdown, malfunction, and/or upset conditions provisions.
An alternate temperature may be used as a surrogate measure of the final combustion temperature, provided that the following are met: the temperature is measured by a permanently installed thermocouple(s) or equivalent temperature sensing device; the method for determining the correlation between the proposed temperature and the final combustion temperature is approved by SRCAA; a correlation with the final combustion temperature is established; and design specifications, showing the location of the sensing device, are submitted to and approved by SRCAA prior to installation.

[Streamlined condition for MWCs for the following requirements as they apply to these units: letter to P. Williams from SRCAA, dated 4/27/94 and WAC 173-434-160(1)(a) & (b), 12/22/03]

The following is a discussion of the underlying requirements that are being streamlined and how compliance with the streamlined condition should assure compliance with the underlying requirement (i.e., that the streamlined condition is at least as stringent as the underlying requirement):

1. Letter to P. Williams from SRCAA, dated 4/27/94
   • This requirement is incorporated into the streamlined condition. In this letter, SRCAA has approved the use of the superheater outlet temperature as a surrogate measure of the combustion temperature and established that at a superheater outlet temperature of 900°F, the minimum required combustion temperature of 1800°F is being met.

2. WAC 173-434-160(1) & (2), 12/22/03
   • This requirement is incorporated into the streamlined condition.

Streamlined condition 9S – MWC Baghouse Temperature Limit
This is a streamlined condition for underlying requirements, addressing the MWC baghouse inlet temperature. The streamlined condition reads as follows:

**9S. MWC Baghouse Temperature Limit.** The inlet temperature to each MWC baghouse shall not exceed the following:

a. Except as otherwise allowed in SRCAA Regulation I, Section 6.17.E, 17°C above the maximum demonstrated particulate matter control device temperature as determined by the procedures in SRCAA Regulation I, Section 6.17.H, based on a 4-hour block average. The maximum demonstrated particulate matter control device temperature shall be the highest 4-hour arithmetic average temperature achieved at the particulate matter control device inlet during four consecutive hours during the most recent test during which compliance with the dioxin/furan limit was achieved. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the MWC plant, as allowed in Condition 3M.g.ii, the owner or operator may elect to apply the same maximum particulate matter control device temperature from the tested municipal waste combustor unit to the other municipal waste combustor unit at the plant; and
b. 300°F, based on a 1-hour block average, unless approved under Condition D.2 of NOC #170 and Condition 15 of PSD-88-1B.

[Streamlined condition for MWCs for the following requirements as they apply to these units: PSD-88-1B, Condition 15, 9/1/89 as revised on 2/9/96; NOC #170, Condition D.2, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12; 40 CFR § 60.53b(c) as adopted by reference in SRCAA Regulation I, Section 6.17.E, 5/5/07; and WAC 173-434-160(3), 12/22/03]

The following is a discussion of the underlying requirements that are being streamlined and how compliance with the streamlined condition should assure compliance with the underlying requirement (i.e., that the streamlined condition is at least as stringent as the underlying requirement):

1. PSD-88-1B, Condition 15, 9/1/89 as revised on 2/9/96
   • This requirement is incorporated into the streamlined condition.

   • This requirement is incorporated into the streamlined condition.

3. 40 CFR § 60.53b(c) as adopted by reference in SRCAA Regulation I, Section 6.17.E, 5/5/07; and WAC 173-434-160(6), 12/22/03
   • This requirement is incorporated into the streamlined condition.

**Streamlined condition 10S – MWC Firing Rate & Load Level Limit**

This is a streamlined condition for underlying requirements, addressing the MWC firing rate and load level. The streamlined condition reads as follows:

**10S. MWC Firing Rate & Load Limit.** The maximum load level or allowable firing rate of each MWC, as measured by steam flow, using a 4-hour block arithmetic average, shall not exceed the following:

a. Except as otherwise allowed in SRCAA Regulation I, Section 6.17.E, 110% of the maximum demonstrated MWC unit load level, as determined using procedures in SRCAA Regulation I, Section 6.17.H, during the last dioxins/furans performance test. The maximum demonstrated MWC unit load shall be the highest 4-hour arithmetic average load achieved during four consecutive hours during the most recent test during which compliance with the dioxin/furan emission limit was achieved. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the MWC plant, as allowed under Condition 3M.g.ii, the owner or operator may elect to apply the same maximum MWC unit load from the tested municipal waste combustor unit to the other municipal waste combustor unit at the plant; and

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b. The highest level at which compliance has been demonstrated during any source test performed on the MWC.

[Streamlined condition for MWCs for the following requirements as they apply to these units: NOC #170, Condition B.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12 and 40 CFR § 60.53b(b) as adopted by reference in SRCAA Regulation I, Section 6.17.E, 5/5/07]

The following is a discussion of the underlying requirements that are being streamlined and how compliance with the streamlined condition should assure compliance with the underlying requirement (i.e., that the streamlined condition is at least as stringent as the underlying requirement):

1. NOC #170, Condition B.4, 3/3/88 as revised on 8/31/89, 11/19/97, 4/23/98, 8/8/06, 2/8/11 & 11/28/12
   - This requirement is incorporated into the streamlined condition. NOC Condition B.4 states “The maximum allowable firing rate of the equipment shall be the highest capacity at which compliance has been demonstrated by source testing.” It should be noted that SRCAA added clarification to the streamlined condition that the maximum allowable firing rate shall not exceed the highest level at which compliance has been demonstrated during any source test performed on the MWC (emphasis added). Condition B.4 also does not contain an averaging time for the maximum firing rate. SRCAA applied the steam flow averaging time consistent with the requirements under federal rules regulating MWCs (adopted in SRCAA Regulation I, Section 6.17) to the NOC firing rate limit (i.e., 4 hour block average).

2. 40 CFR § 60.53b(b) as adopted by reference in SRCAA Regulation I, Section 6.17.E, 5/5/07
   - This requirement is incorporated into the streamlined condition.

PERMIT SHIELD FINDINGS
This final section of the permit lists regulations for which the facility has requested, and SRCAA proposes to grant, a permit shield per WAC 173-401-640(2). The findings on which this shield is based are given below. These findings are summarized in the permit.

Requirements For Which a Shield Will Be Granted

1PS. New Source Performance Standard Municipal Waste Combustors. Because 40 CFR Part 60, Subpart Ea applies to MWCs for which construction began after December 20, 1989 and before September 20, 1994, and construction for the two units designated in TABLE II.B-1 began before December 20, 1989, this standard does not apply to the two MWC units at the facility. [40 CFR Part 60, Subpart Ea, 2006]
2PS. SRCAA Regulation I, Section 6.14, Standards for Control of Particulate Matter on Paved Surfaces. The requirements given in SRCAA Regulation I, Section 6.14 were written to cover emissions from paved public roadways maintained by government agencies, not paved surfaces at facilities owned by government agencies. There are other rules and requirements that apply to the facility which require control of fugitive emissions from paved surfaces at this facility, including Conditions 59 and 65. As a result, SRCAA Regulation I, Section 6.14 does not apply to this facility. [SRCAA Regulation I, Section 6.14, 10/7/04(1/7/99)]

3PS. 40 CFR Part 60, Subpart III. The requirements given in 40 CFR Part 60, Subpart III do not apply to the back-up diesel generator (a.k.a. turning gear engine) rated at 92 hp and the diesel fired fire pump engine rated at 235 hp because both engines were manufactured prior to April 1, 2006. Since they were manufactured before April 1, 2006, 40 CFR Part 60, Subpart III does not apply. [40 CFR 60, Subpart III, 7/11/06]

4PS. 40 CFR Part 63, Subpart ZZZZ. The requirements given in 40 CFR Part 63, Subpart ZZZZ do not apply to the back-up diesel generator (a.k.a. turning gear engine) rated at 92 hp. The turning gear engine is considered a new emergency stationary RICE (compression ignition) with a rating < 500 hp at a major source for HAP emissions under Subpart ZZZZ. The engine was manufactured prior to 2006, but was never installed at a location (and therefore never “constructed’) prior to the Waste-to-Energy facility purchasing the engine in 2008. The engine was installed permanently (i.e., constructed) at the Waste-to-Energy facility in the fall of 2008. According to 40 CFR Part 63, Subpart ZZZZ a new emergency stationary RICE with a site rating of < 500 hp at a major source of HAP emissions meets the requirements of Part 63 by meeting the requirements of 40 CFR 60, Subpart III. Subpart III does not have any requirements that apply to the back-up diesel generator based on the manufacture date (see 3PS). As a result, there are no applicable requirements from 40 CFR 63, Subpart ZZZZ for the back-up diesel generator (a.k.a. turning gear engine). [40 CFR 63, Subpart ZZZZ, 6/15/04]

Requirements For Which a Shield Will Not Be Granted

1. Lime Silo Baghouse Emission Standard, PSD-88-1B, Condition 10

Findings: Ecology has determined that the grain loading particulate standard included as Condition 10 applies, even through the unit exhausts inside. As such, the requirement must be included in the air operating permit. Therefore, SRCAA cannot grant a permit shield for this requirement.

2. PSD Annual NOx Tonnage, PSD-88-1B, Condition 5

Findings: The annual NOx tonnage limit contained in the PSD permit is an applicable requirement, even if the annual NOx tonnage is inconsistent with the concentration limit. Ecology has not rescinded or revised the annual NOx tonnage limit of 184 tons per combustor, given in Condition 5 of PSD-88-1B. The annual NOx tonnage limit is included as part of the
streamlined NOx emission limit. Therefore, SRCAA cannot grant a permit shield for this requirement.

PREPARED BY: __________________________

April L. Westby

DATE: __________________________

REVIEWED BY: __________________________

Joe Southwell, PE

DATE: __________________________

APPROVED BY: __________________________

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