Under the South Dakota Air Pollution Control Regulations

Pursuant to Chapter 34A-1-21 of the South Dakota Codified Laws and the Air Pollution Control Regulations of the State of South Dakota and in reliance on statements made by the owner designated below, a permit to operate is hereby issued by the Secretary of the Department of Environment and Natural Resources. This permit authorizes such owner to operate the unit(s) at the location designated below and under the listed conditions:

A. Owner

1. Company Name and Address

   City/School Common Energy Plant
   434 North Mt. Rushmore Rd.
   Rapid City, SD 57701

2. Actual Source Location and Mailing Address if Different from Above

   Same as above

3. Permit Contact

   Gunar Dzintars, Energy Plant Manager
   (605)394-2660

4. Facility Contact

   Gunar Dzintars, Energy Plant Manager
   (605)394-2660

5. Responsible Official

   Gunar Dzintars, Energy Plant Manager
   (605)394-2660

B. Permit Revisions or Modifications

   Not Applicable

C. Type of Operation

   Provides hot and chilled water for space conditioning for the Rushmore Plaza Civic Center and Central High School.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 Standard Conditions</td>
<td>1</td>
</tr>
<tr>
<td>1.1 Operation of source</td>
<td>1</td>
</tr>
<tr>
<td>1.2 Duty to comply</td>
<td>1</td>
</tr>
<tr>
<td>1.3 Property rights or exclusive privileges</td>
<td>1</td>
</tr>
<tr>
<td>1.4 Penalty for violating a permit condition</td>
<td>2</td>
</tr>
<tr>
<td>1.5 Inspection and entry</td>
<td>2</td>
</tr>
<tr>
<td>1.6 Severability</td>
<td>2</td>
</tr>
<tr>
<td>1.7 Permit termination, modification, or revocation</td>
<td>2</td>
</tr>
<tr>
<td>1.8 Credible evidence</td>
<td>2</td>
</tr>
<tr>
<td>2.0 Permit Fees</td>
<td>3</td>
</tr>
<tr>
<td>2.1 Annual air fee required</td>
<td>3</td>
</tr>
<tr>
<td>2.2 Annual operational report</td>
<td>3</td>
</tr>
<tr>
<td>2.3 Annual air fee</td>
<td>3</td>
</tr>
<tr>
<td>3.0 Permit Amendments and Modifications</td>
<td>3</td>
</tr>
<tr>
<td>3.1 Permit flexibility</td>
<td>3</td>
</tr>
<tr>
<td>3.2 Administrative permit amendment</td>
<td>4</td>
</tr>
<tr>
<td>3.3 Minor permit amendment</td>
<td>4</td>
</tr>
<tr>
<td>3.4 Permit modification</td>
<td>5</td>
</tr>
<tr>
<td>3.5 Permit revision</td>
<td>5</td>
</tr>
<tr>
<td>3.6 Testing new fuels or raw materials</td>
<td>5</td>
</tr>
<tr>
<td>4.0 Permit Renewal</td>
<td>6</td>
</tr>
<tr>
<td>4.1 Permit effective</td>
<td>6</td>
</tr>
<tr>
<td>4.2 Permit renewal</td>
<td>6</td>
</tr>
<tr>
<td>4.3 Permit expiration</td>
<td>6</td>
</tr>
<tr>
<td>5.0 Recordkeeping and Reporting</td>
<td>6</td>
</tr>
<tr>
<td>5.1 Recordkeeping and reporting</td>
<td>6</td>
</tr>
<tr>
<td>5.2 Signatory requirements</td>
<td>7</td>
</tr>
<tr>
<td>5.3 Certification statement</td>
<td>7</td>
</tr>
<tr>
<td>5.4 Monitoring log</td>
<td>7</td>
</tr>
<tr>
<td>5.5 Annual records</td>
<td>8</td>
</tr>
<tr>
<td>5.6 Annual compliance certification</td>
<td>8</td>
</tr>
<tr>
<td>5.7 Reporting permit violations</td>
<td>8</td>
</tr>
<tr>
<td>6.0 Control of Regulated Air Pollutants</td>
<td>9</td>
</tr>
<tr>
<td>6.1 Visibility limit</td>
<td>9</td>
</tr>
<tr>
<td>6.2 Visibility exceedances</td>
<td>9</td>
</tr>
<tr>
<td>6.3 Total suspended particulate matter limits</td>
<td>9</td>
</tr>
<tr>
<td>6.4 Sulfur dioxide limits</td>
<td>9</td>
</tr>
<tr>
<td>6.5 Air emission exceedances – emergency conditions</td>
<td>10</td>
</tr>
<tr>
<td>Section</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>6.6</td>
<td>Circumvention not allowed</td>
</tr>
<tr>
<td>6.7</td>
<td>Minimizing emissions</td>
</tr>
<tr>
<td>7.0</td>
<td>Performance Tests</td>
</tr>
<tr>
<td>7.1</td>
<td>Performance test may be required</td>
</tr>
<tr>
<td>7.2</td>
<td>Test methods and procedures</td>
</tr>
<tr>
<td>7.3</td>
<td>Representative performance test</td>
</tr>
<tr>
<td>7.4</td>
<td>Submittal of test plan</td>
</tr>
<tr>
<td>7.5</td>
<td>Notification of test</td>
</tr>
<tr>
<td>7.6</td>
<td>Performance test report</td>
</tr>
<tr>
<td>8.0</td>
<td>Boiler (Unit #2 and #3) NSPS Requirements</td>
</tr>
<tr>
<td>8.1</td>
<td>Sulfur limit for diesel</td>
</tr>
<tr>
<td>8.2</td>
<td>Date of initial startup notification</td>
</tr>
<tr>
<td>8.3</td>
<td>Initial fuel oil sulfur performance test</td>
</tr>
<tr>
<td>8.4</td>
<td>Diesel supplier certification</td>
</tr>
<tr>
<td>8.5</td>
<td>Natural gas supplier certification</td>
</tr>
<tr>
<td>8.6</td>
<td>Recordkeeping requirements for boiler</td>
</tr>
<tr>
<td>8.7</td>
<td>Semiannual reporting for boiler</td>
</tr>
<tr>
<td>8.8</td>
<td>Changing boiler fuel</td>
</tr>
<tr>
<td>9.0</td>
<td>Emergency Generator NSPS Requirements</td>
</tr>
<tr>
<td>9.1</td>
<td>Emergency generator emission limits</td>
</tr>
<tr>
<td>9.2</td>
<td>Fuel requirements for emergency generator</td>
</tr>
<tr>
<td>9.3</td>
<td>Operating requirements for emergency generators</td>
</tr>
<tr>
<td>9.4</td>
<td>Compliance with emergency generator emission limits</td>
</tr>
<tr>
<td>9.5</td>
<td>Annual operation of emergency generator</td>
</tr>
<tr>
<td>9.6</td>
<td>Alternative requirements for emergency generators</td>
</tr>
<tr>
<td>9.7</td>
<td>Performance test requirements for emergency generators</td>
</tr>
<tr>
<td>10.0</td>
<td>MACT Subpart JJJJJJJ for Boilers Exemption</td>
</tr>
<tr>
<td>10.1</td>
<td>Residual oil and distillate oil restrictions</td>
</tr>
<tr>
<td>10.2</td>
<td>Boiler recordkeeping requirements</td>
</tr>
<tr>
<td>10.3</td>
<td>Changing boiler fuel</td>
</tr>
</tbody>
</table>
1.0 Standard Conditions

1.1 Operation of source
In accordance with Administrative Rules of South Dakota (ARSD) 74:36:05:16.01(8), the owner or operator shall operate the units, controls, and processes as described in Table 1-1 in accordance with the statements, representations, and supporting data contained in the complete permit application received September 16, 2013, unless modified by the conditions of this permit. Except as otherwise provided herein, the control equipment shall be operated at all times in accordance with the manufacturer’s specification and in a manner that achieves compliance with the conditions of this permit. The application consists of the application forms, supporting data, and supplementary correspondence. If the owner or operator becomes aware it failed to submit any relevant facts in a permit application or submitted incorrect information in an application, such information shall be promptly submitted.

Table 1-1 – Description of Permitted Units, Operations, and Processes

<table>
<thead>
<tr>
<th>Identification</th>
<th>Description</th>
<th>Maximum Operating Rate</th>
<th>Control Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit # 1</td>
<td>Emergency Generator, 2012, 8.7L, Generac Power Systems, Model #14270950100</td>
<td>250 kW (335 H.P.)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Operating on #2 Distillate Oil.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit # 2</td>
<td>Boiler #1, Fire Tube Boiler, 2012 Hurst Boiler and Welding Company, Model #S5-G0-400-125W, Primary Fuel: Natural Gas, Secondary Fuel:#2 Distillate Oil.</td>
<td>16.8 Million Btus (MMBtus) Per hour (heat input)</td>
<td>None</td>
</tr>
<tr>
<td>Unit # 3</td>
<td>Boiler #2, Fire Tube Boiler, 2012 Hurst Boiler and Welding Company, Model #S5-G0-400-125W, Primary Fuel: Natural Gas, Secondary Fuel:#2 Distillate Oil.</td>
<td>16.8 MMBtus Per hour (heat input)</td>
<td>None</td>
</tr>
</tbody>
</table>

1.2 Duty to comply
In accordance with ARSD 74:36:05:16.01(12), the owner or operator shall comply with the conditions of this permit. An owner or operator who knowingly makes a false statement in any record or report or who falsifies, tampers with, or renders inaccurate, any monitoring device or method is in violation of this permit. A violation of any condition in this permit is grounds for enforcement, reopening this permit, permit termination, or denial of a permit renewal application. The owner or operator, in an enforcement action, cannot use the defense that it would have been necessary to cease or reduce the permitted activity to maintain compliance. The owner or operator shall provide any information requested by the Secretary to determine compliance or whether cause exists for reopening or terminating this permit.

1.3 Property rights or exclusive privileges
In accordance with ARSD 74:36:05:16.01(12), the State’s issuance of this permit, adoption of design criteria, and approval of plans and specifications does not convey any property rights of any sort, any exclusive privileges, any authorization to damage, injure or use any private
property, any authority to invade personal rights, any authority to violate federal, state or local laws or regulations, or any taking, condemnation or use of eminent domain against any property owned by third parties. The State does not warrant the owner’s or operator’s compliance with this permit, design criteria, approved plans and specifications, and operation under this permit, will not cause damage, injury or use of private property, an invasion of personal rights, or violation of federal, state or local laws or regulations. The owner or operator is solely and severally liable for all damage, injury or use of private property, invasion of personal rights, infringement of federal, state or local laws and regulations, or taking or condemnation of property owned by third parties, which may result from actions taken under the permit.

1.4 Penalty for violating a permit condition
In accordance with South Dakota Codified Laws (SDCL) 34A-1-39 and 34A-1-47, a violation of a permit condition may subject the owner or operator to civil or criminal prosecution, a state penalty of not more than $10,000 per day per violation, injunctive action, administrative permit action, and other remedies as provided by law.

1.5 Inspection and entry
In accordance with SDCL 34A-1-41, the owner or operator shall allow the Secretary, upon presentation of credentials, to:

1. Enter the premises where a regulated activity is located or where pertinent records are stored;
2. Have access to and copy any records required under this permit;
3. Inspect operations regulated under this permit; and/or
4. Sample or monitor any substances or parameters for the purpose of assuring compliance.

1.6 Severability
In accordance with ARSD 74:36:05:16.01(11), any portion of this permit that is void or challenged shall not affect the validity of the remaining permit requirements.

1.7 Permit termination, modification, or revocation
In accordance with ARSD 74:36:05:46, the Secretary may recommend the Board of Minerals and Environment terminate, modify, or revoke this permit for violations of SDCL 34A-1 or the federal Clean Air Act or for nonpayment of any outstanding fee or enforcement penalty.

1.8 Credible evidence
In accordance with ARSD 74:36:13:07, credible evidence may be used for the purpose of establishing whether the owner or operator has violated or is in violation of this permit. Credible evidence may consist of the following:

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred:
   a. A monitoring method approved pursuant to 40 CFR § 70.6(a)(3) and incorporated in this permit; or
   b. Compliance methods specified in an applicable plan;
2. The following testing, monitoring, or information gathering methods are presumptively credible testing, monitoring, or information-gathering methods:
   a. Any monitoring or testing methods approved in this permit, including those in 40 CFR Parts 51, 60, 61, and 75; or
   b. Other testing, monitoring, or information-gathering methods that produce information comparable to that produced by any method in paragraph (1) or (2)(a).

2.0 Permit Fees

2.1 Annual air fee required
In accordance with ARSD 74:36:05:06.01, the owner or operator shall submit an annual administrative fee and an annual fee. The fee is based on actual emissions in accordance with ARSD 74:37.

2.2 Annual operational report
In accordance with ARSD 74:37:01:06, the Secretary will supply the owner or operator with an annual operational report in January of each year. The owner or operator shall complete and submit the operational report to the Secretary by March 1 of each year. The responsible official shall sign the operational report in the presence of a notary public.

2.3 Annual air fee
In accordance with ARSD 74:37:01:08, the Secretary will notify the owner or operator of the required annual air emission fee and administrative fee by June 1 of each year. The fees shall accrue on July 1 and are payable to the Department of Revenue by July 31 of each year.

3.0 Permit Amendments and Modifications

3.1 Permit flexibility
In accordance with ARSD 74:36:05:30, the owner or operator shall have the flexibility to make changes to the source during the term of this permit. The owner or operator shall provide the Secretary written notice at least seven days in advance of the proposed change (NOTE: The Secretary will forward a copy of the written notice to EPA). The written notice shall include a brief description of the change, the date on which the change is to occur, any change in emissions, the proposed changes to the permit, and whether the requested revisions are for an administrative permit amendment, minor permit amendment, or permit modification.

The Secretary will notify the owner or operator whether the change is an administrative permit amendment, a minor permit amendment, or a permit modification. A proposed change that is considered an administrative permit amendment or a minor permit amendment can be completed immediately after the Secretary receives the written notification. The owner or operator must comply with both the applicable requirements governing the change and the proposed permit terms and conditions until the Secretary takes final action on the proposed change.
A proposed change that is considered a modification cannot be implemented until the Secretary takes final action on the proposed change or the owner or operator was issued an air quality construction permit. Permit modifications are subject to the same procedural requirements, including public comment, as the original permit issuance except that the required review shall cover only the proposed changes.

3.2 Administrative permit amendment
In accordance with ARSD 74:36:05:33, the Secretary has 60 days from receipt of a written notice to verify the proposed change is an administrative permit amendment. As provided in ARSD 74:36:01:03, the Secretary considers a proposed change an administrative permit amendment if the proposed change accomplishes one of the following:

1. Corrects typographical errors;
2. Changes the name, address, or phone number of any person identified in this permit or provides a similar minor administrative change;
3. Requires more frequent monitoring or reporting;
4. The ownership or operational control changes and the Secretary determines no other change in this permit is necessary. However, the new owner must submit a certification of applicant form and a written statement specifying the date for transfer of operating permit responsibility, coverage, and liability; or
5. Any other changes the Secretary and the administrator of EPA determines to be similar to those requirements in this condition.

3.3 Minor permit amendment
In accordance with ARSD 74:36:05:38, the Secretary has 90 days from receipt of a written notice or 15 days after the end of EPA's 45-day review period, whichever is later, to take final action on a minor permit amendment. Final action consists of issuing or denying a minor permit amendment or determining the proposed change is a permit modification. As provided in ARSD 74:36:05:35, the Secretary considers a proposed change to be a minor permit amendment if the proposed change:

1. Does not violate any applicable requirements;
2. Does not involve significant changes to existing monitoring, reporting, or recordkeeping requirements;
3. Does not require or change a case-by-case determination of an emission limit or other standard, a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis; or
4. Does not seek to establish or change a permit term or condition for which the source has assumed to avoid an applicable requirement, a federally enforceable emission cap, or an alternative emission limit. An alternative emission limit is approved pursuant to regulations promulgated under section 112(i)(5) of the federal Clean Air Act.
3.4 Permit modification
In accordance with ARSD 74:36:05:39, an owner or operator may apply for a permit modification. A permit modification is defined in ARSD 74:36:01:10 as a physical change in or change in the operation of a source that results in at least one of the following:

1. An increase in the amount of an air pollutant emitted by the source or results in the emission of an air pollutant not previously emitted;
2. A significant change to existing monitoring, reporting, or recordkeeping requirements in the permit;
3. The change requires or changes a case-by-case determination of an emission limit or other standard, a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis; or
4. The change seeks to establish or change a permit term or condition for which there is a corresponding underlying applicable requirement that the source has assumed to avoid an applicable requirement, a federally enforceable emissions cap assumed to avoid classification as a modification under a provision of the Title I of the Clean Air Act, or an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Clean Air Act.

Permit modifications are subject to the same procedural requirements, including public comment, as the original permit issuance except the required review shall cover only the proposed changes.

3.5 Permit revision
In accordance with ARSD 74:36:05:40, the Secretary may reopen and revise this permit to meet requirements of SDCL 34A-1 or the federal Clean Air Act. In accordance with ARSD 74:36:05:41, the Secretary shall notify the owner or operator at least 30 days before reopening this permit. The 30-day period may be less in the case of an emergency.

3.6 Testing new fuels or raw materials
In accordance with ARSD 74:36:11:04, an owner or operator may request permission to test a new fuel or raw material to determine if it is compatible with existing equipment before requesting a permit amendment or modification. A complete test proposal shall consist of the following:

1. A written proposal describing the new fuel or raw material, operating parameters, and parameters that will be monitored and any testing associated with air pollutant emissions during the test;
2. An estimate of the type and amount of regulated air pollutant emissions resulting from the proposed change; and
3. The proposed schedule for conducting the test. In most cases the owner or operator will be allowed to test for a maximum of one week. A request for a test period longer than one week will need additional justification. A test period shall not exceed 180 days.
The Secretary shall approve, conditionally approve, or deny in writing the test proposal within 45 days after receiving a complete proposal. Approval conditions may include changing the test schedule or pollutant sampling and analysis methods. Pollutant sampling and analysis methods may include, but are not limited to performance testing, visible emission evaluation, fuel analysis, dispersion modeling, and monitoring of raw material or fuel rates.

If the Secretary determines the proposed change will result in an increase in the emission of a regulated air pollutant or result in the emission of an additional regulated air pollutant, the Secretary shall give public notice of the proposed test for 30 days. The Secretary shall consider all comments received during the 30-day public comment period before making a final decision on the test.

The Secretary will not approve a test if the test would cause or contribute to a violation of a national ambient air quality standard.

4.0 Permit Renewal

4.1 Permit effective
In accordance with ARSD 74:36:05:07, this permit shall expire five years from date of issuance unless reopened or terminated for cause.

4.2 Permit renewal
In accordance with ARSD 74:36:05:08, the owner or operator shall submit an application for a permit renewal at least 180 days before the date of permit expiration if the owner or operator wishes to continue to operate an activity regulated by this permit. The current permit shall not expire and shall remain in effect until the Secretary takes final action on the timely permit renewal application.

4.3 Permit expiration
In accordance with ARSD 74:36:05:28, permit expiration terminates the owner’s or operator’s right to operate any unit covered by this permit.

5.0 Recordkeeping and Reporting

5.1 Recordkeeping and reporting
In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall maintain all monitoring data, records, reports, and pertinent information specified by this permit for five years from the date of sample, measurement, report, or application unless otherwise specified in this permit. The records shall be maintained on site for the first two years and may be maintained off site for the last three years. All records must be made available to the Secretary for inspection. All notifications and reports shall be submitted to the following address:
5.2 Signatory requirements
In accordance with ARSD 74:36:05:12 and 74:36:05:16.01, all applications, reports, or other information submitted to the Secretary shall be signed and certified by a responsible official or a duly authorized representative. A responsible official for a corporation is a responsible corporate officer and for a partnership or sole proprietorship is a general partner or the proprietor, respectively. A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above and submitted to the Secretary; and
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.

The duly authorized representative must be designated prior to or together with any reports or information to be signed by a duly authorized representative. The responsible official shall notify the Secretary if an authorization is no longer accurate.

5.3 Certification statement
In accordance with ARSD 74:36:05:16.01(14)(a), all documents required by this permit, including application forms, reports, and compliance certification, must be certified by a responsible official or a duly authorized representative. The certification shall include the following statement:

“I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document and all attachments are true, accurate, and complete.”

5.4 Monitoring log
In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall maintain a monitoring log. The monitoring log shall contain the following information.

1. Maintenance schedule for each piece of control equipment listed in Table 1-1. At a minimum, the maintenance schedule shall meet the manufacturer’s recommended schedule for maintenance. The following information shall be recorded for maintenance:
   a. Identify the unit;
   b. The date and time maintenance was performed;
   c. Description of the type of maintenance;
   d. Reason for performing maintenance; and
   e. Signature of person performing maintenance;
2. The following information shall be recorded within two days of each emergency exceedance:
   a. The date of the emergency exceedance and the date the emergency exceedance was reported to the Secretary;
   b. The cause(s) of the emergency;
   c. The reasonable steps taken to minimize the emissions during the emergency; and
   d. A statement the permitted equipment was at the time being properly operated.

5.5 Annual records
In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall calculate and record the following amounts from January 1 to December 31 of each year:

1. The amount and sulfur content of diesel fuel burned by City/ School Common Energy Plant for both the generator and the boilers. Additionally the hours operated while burning diesel fuel should
2. Then amount of natural gas burned by City/School Common Energy Plant by the in Units #2 and #3. Additionally the hours operated while burning natural gas.

5.6 Annual compliance certification
In accordance with ARSD 74:36:05:16.01(14), the owner or operator shall submit an annual compliance certification letter to the Secretary by March 1 of each year this permit is in effect (NOTE: The Secretary will forward a copy of the certification letter to EPA). The certification shall contain the following information:

1. Methods used to determine compliance, including: monitoring, recordkeeping, performance testing and reporting requirements;
2. The source is in compliance and will continue to demonstrate compliance with all applicable requirements;
3. In the event the source is in noncompliance, a compliance plan that indicates how the source has or will be brought into compliance; and
4. Certification statement required in permit condition 5.3.

5.7 Reporting permit violations
In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall report all permit violations. A permit violation should be reported as soon as possible, but no later than the first business day following the day the violation was discovered. The permit violation may be reported by telephone to the South Dakota Department of Environment and Natural Resources at (605) 773-3151 or by FAX at (605) 773-4068.

A written report shall be submitted within five days of discovering the permit violation. Upon prior approval from the Secretary, the submittal deadline for the written report may be extended up to 30 days. The written report shall contain:

1. A description of the permit violation and its cause(s);
2. The duration of the permit violation, including exact dates and times; and
3. The steps taken or planned to reduce, eliminate, and prevent reoccurrence of the permit violation.

6.0 Control of Regulated Air Pollutants

6.1 Visibility limit
In accordance with ARSD 74:36:12:01, the owner or operator may not discharge into the ambient air an air contaminant of a density equal to or greater than that designated as 20 percent opacity from any permitted unit, operation, or process listed in Table 1-1, unless otherwise specified in this permit. This provision does not apply when the presence of uncombined water is the only reason for failure to meet the requirement.

6.2 Visibility exceedances
In accordance with ARSD 74:36:12:02, an exceedance of the opacity limit in permit condition 6.1 is not considered a violation during brief periods of soot blowing, start-up, shutdown, or malfunctions. Malfunction means any sudden and unavoidable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. A failure caused entirely or in part by poor maintenance, careless operation, preventable equipment breakdown, or any other cause within the control of the owner or operator is not a malfunction and is considered a violation.

6.3 Total suspended particulate matter limits
In accordance with ARSD 74:36:06:02(1), the owner or operator shall not allow the emission of total suspended particulate matter in excess of the emission limit specified in Table 6-1 for the appropriate permitted unit, operation, and process.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
<th>Emission Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>Emergency Generator</td>
<td>0.6</td>
</tr>
<tr>
<td>#2</td>
<td>16.8 MMBtu per hour Boiler</td>
<td>0.6</td>
</tr>
<tr>
<td>#3</td>
<td>16.8 MMBtu per hour Boiler</td>
<td>0.6</td>
</tr>
</tbody>
</table>

6.4 Sulfur dioxide limits
In accordance with ARSD 74:36:06:02(2), the owner or operator shall not allow the emission of sulfur dioxide in excess of the emission limit specified in Table 6-2 for the appropriate permitted unit, operations, and process.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
<th>Emission Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>Emergency Generator</td>
<td>3.0 pounds per million Btu heat input</td>
</tr>
<tr>
<td>#2</td>
<td>16.8 MMBtu per hour Boiler</td>
<td>3.0 pounds per million Btu heat input</td>
</tr>
<tr>
<td>#3</td>
<td>16.8 MMBtu per hour Boiler</td>
<td>3.0 pounds per million Btu heat input</td>
</tr>
</tbody>
</table>
Compliance with the sulfur dioxide emission limit is based on a three-hour rolling average, which is the arithmetic average of three contiguous one-hour periods.

6.5 Air emission exceedances – emergency conditions
In accordance with ARSD 74:36:05:16.01(18), the Secretary will allow for an unavoidable emission exceedance of a technology-based emission limit if the exceedance is caused by an emergency condition and immediate action is taken by the owner or operator to restore the operations back to normal. An emergency condition is a situation arising from a sudden and reasonably unforeseeable event beyond the control of the owner or operator, including acts of God. An emergency shall not include an emission exceedance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error. The owner or operator shall notify the Secretary within two working days of the incident and take all steps possible to eliminate the excess emissions. The notification must provide a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. If the notification is submitted orally, a written report summarizing the information required by the notification shall be submitted and postmarked within 30 days of the oral notification.

6.6 Circumvention not allowed
In accordance with ARSD 74:36:08:03, as referenced to 40 CFR § 63.4(b), no owner or operator shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to the use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere.

6.7 Minimizing emissions
In accordance with ARSD 74:36:08:03, as referenced to 40 CFR § 63.6(e)(1)(i), the owner or operator shall at all times, including periods of startup, shutdown, and malfunction, operate and maintain any permitted unit, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires the owner or operator to reduce emissions from the permitted unit to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the owner or operator to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the owner or operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Secretary which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including a startup, shutdown, and malfunction plan, if required), review of operation and maintenance records, and inspection of the operation.
7.0 Performance Tests

7.1 Performance test may be required
In accordance with ARSD 74:36:11:02, the Secretary may request a performance test during the term of this permit. A performance test shall be conducted while operating the unit at or greater than 90 percent of its maximum design capacity, unless otherwise specified by the Secretary. A performance test conducted while operating less than 90 percent of its maximum design capacity will result in the operation being limited to the percent achieved during the performance test. The Secretary has the discretion to extend the deadline for completion of performance test required by the Secretary if circumstances reasonably warrant but will not extend the deadline past a federally required performance test deadline.

7.2 Test methods and procedures
In accordance with ARSD 74:36:11:01, the owner or operator shall conduct the performance test in accordance with 40 CFR Part 60, Appendix A, 40 CFR Part 63, Appendix A, and 40 CFR Part 51, Appendix M. The Secretary may approve an alternative method if a performance test specified in 40 CFR Part 60, Appendix A, 40 CFR Part 63, Appendix A, and 40 CFR Part 51, Appendix M is not federally applicable or federally required.

7.3 Representative performance test
In accordance with ARSD 74:36:07:01, as referenced to 40 CFR § 60.8(c), performance tests shall be conducted under such conditions as the Secretary shall specify to the owner or operator based on the representative performance of the unit being tested. The owner or operator shall make available to the Secretary such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in this permit.

7.4 Submittal of test plan
In accordance with ARSD 74:36:11:01, the owner or operator shall submit the proposed testing procedures to the Secretary at least 30 days prior to any performance test. The Secretary will notify the owner or operator if the proposed test procedures are approved or denied. If the proposed test procedures are denied, the Secretary will provide written notification outlining what needs to be completed for approval.

7.5 Notification of test
In accordance with ARSD 74:36:07:01, as referenced to 40 CFR § 60.8(d), the owner or operator shall notify the Secretary at least 30 days prior to the start of a performance test to afford the Secretary the opportunity to have an observer present. If there is a delay in conducting the scheduled performance test, the owner or operator shall notify the Secretary as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Secretary by mutual agreement.
7.6 Performance test report
In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall submit a performance test report to the Secretary within 60 days after completing the performance test or by a date designated by the Secretary. The performance test report shall contain the following information:

1. A brief description of the process and the air pollution control system being tested;
2. Sampling location description(s);
3. A description of sampling and analytical procedures and any modifications to standard procedures;
4. Test results represented in the same terminology as the permit limits;
5. Quality assurance procedures and results;
6. Records of operating conditions during the test necessary for demonstrating compliance with the permit limits, preparation of standards, and calibration procedures;
7. Raw data sheets for field sampling and field and laboratory analyses;
8. Documentation of calculations;
9. All data recorded and used to establish parameters for compliance monitoring; and
10. Any other information required by the test method.

8.0 Boiler (Unit #2 and #3) NSPS Requirements

8.1 Sulfur limit for diesel
In accordance with ARSD 74:36:07:05, as referenced to 40 CFR § 60.42c(d), (h)(1), and (i), on or after the date on which the initial performance test in permit condition 8.3 is completed, the owner or operator shall not combust diesel in Unit #2 and #3 that contains greater than 0.5 weight percent sulfur. Compliance with the diesel sulfur limit shall be determined based on a certification from the fuel supplier that includes the information identified in permit condition 8.4. The diesel sulfur limit applies at all times, including periods of startup, shutdown, and malfunctions.

8.2 Date of initial startup notification
In accordance with ARSD 74:36:07:01 and 74:36:07:05, as referenced to 40 CFR §§ 60.7(a) and 60.48c(a), the owner or operator shall submit a notification of the date of initial startup of Unit 2 and 3. The notification shall include:

1. Name of facility, permit number, and reference to this permit condition;
2. Identify the date of initial startup. Initial startup is defined as the first time fuel is combusted in Unit 2 and 3; and
3. The design heat input capacity of the boiler and identification of fuels to be combusted in the unit.

The initial startup notification must be postmarked within 15 days after the date of actual startup.
8.3 **Initial fuel oil sulfur performance test**
In accordance with ARSD 74:36:07:05, as referenced to 40 CFR § 60.44c(h), the initial performance test for demonstrating compliance with the diesel sulfur limit shall consist of a certification from the fuel supplier, as described in permit condition 8.4. The certification shall be for the first load of diesel that will be combusted in Unit 2 and 3.

8.4 **Diesel supplier certification**
In accordance with ARSD 74:36:07:05, as referenced to 40 CFR § 60.48c(f)(1), the owner or operator shall obtain a fuel supplier certification for each load of diesel purchased or received. The fuel supplier certification shall include the following information:

1. The name of the fuel supplier;
2. A statement from the fuel supplier the diesel complies with the specifications under the definition of distillate oil given in permit condition 8.8; and
3. A statement that the sulfur content of the diesel does not exceed 0.5 weight percent sulfur.

8.5 **Natural gas supplier certification**
In accordance with ARSD 74:36:07:05, as referenced to 40 CFR § 60.48c(f)(4), the owner or operator shall maintain the following natural gas fuel supplier information:

1. The name of the fuel supplier;
2. The potential sulfur emissions rate or maximum potential sulfur emissions rate of the natural gas in nanogram per Joules heat input; and
3. The method used to determine the potential sulfur emissions rate of the natural gas.

8.6 **Recordkeeping requirements for boiler**
In accordance with ARSD 74:36:07:05, as referenced to 40 CFR § 60.48c(g) and (i), the owner or operator shall maintain the following records:

1. Each fuel supplier certification;
2. A copy of the initial startup notification;
3. A copy of each semiannual report; and
4. Records of the amount of each fuel combusted during each calendar month; or
5. Records of the total amount of each fuel delivered to the property during each calendar month.

All records shall be maintained for a period of two years following the date of such record.

8.7 **Semiannual reporting for boiler**
In accordance with ARSD 74:36:07:05, as referenced to 40 CFR § 60.48c(d), (e), and (j), the owner or operator shall submit a semiannual report to the Secretary. The semiannual reports shall contain the following information:
1. Name of facility, permit number, reference to this permit condition, identifying the submittal as a semiannual report, and the calendar dates covered in the reporting period;

2. Copies of the fuel supplier certification for each load of diesel purchased or received during the reporting period. If no diesel is purchased or received during the reporting period, a statement that no diesel was purchased or received shall be included;

1. A certified statement signed by the owner or operator that the records of fuel supplier certifications submitted represent all of the diesel combusted during the reporting period.

The semiannual reports must be postmarked no later than 30 days after the end of the reporting period (e.g., July 30th and January 30th).

8.8 Changing boiler fuel
In accordance with ARSD 74:36:07:05, as referenced to 40 CFR § 60.40c, Unit 2 and 3 shall be fired with natural gas or diesel. If Unit 2 and 3 is fueled with other fuels such as coal, other oil, or wood, additional standards and requirements in 40 CFR Part 60, Subpart Dc may apply. The owner or operator shall apply for and obtain approval from the Secretary before other fuels can be used as a fuel in Unit 2 and 3.

Distillate oil means diesel that complies with the specifications for fuel oil numbers 1 or 2. Residual oil means crude oil that does not comply with the specifications under the definition of distillate oil, and all fuel oil numbers 4, 5, and 6. Specifications for fuel oils are defined in the American Society for Testing and Materials in ASTM D396-78, "Standards Specifications for Fuel Oils".

9.0 Emergency Generator NSPS Requirements

9.1 Emergency generator emission limits
In accordance with ARSD 74:36:07:88, as referenced to 40 CFR §§ 60.4205(b) and 60.4206, the owner or operator shall operate and maintain the emergency generator that achieves the emission limits in Table 9-1 over the entire life of the emergency generator.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Nonmethane Hydrocarbon + Nitrogen Oxide</th>
<th>Carbon Monoxide</th>
<th>Particulate Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4.0</td>
<td>3.5</td>
<td>0.20</td>
</tr>
</tbody>
</table>

9.2 Fuel requirements for emergency generator
In accordance with ARSD 74:36:07:88, as referenced to 40 CFR § 60.4207(b), the owner or operator shall only combust diesel fuel in the emergency generator that meets the following per gallon standards:

1. Maximum sulfur content of 15 parts per million; and
2. Minimum cetane index of 40; or
3. Maximum aromatic content of 35 volume percent.
9.3 Operating requirements for emergency generators
In accordance with ARSD 74:36:07:88, as referenced to 40 CFR § 60.4211(a), the owner or operator shall comply with the following, except as specified in permit condition 9.6:

1. Operate and maintain the generators according to the manufacturer's emission-related written instructions;
2. Change only those emission-related settings that are permitted by the manufacturer; and
3. Meet the applicable requirements in 40 CFR Part 89, 94, and/or 1068.

9.4 Compliance with emergency generator emission limits
In accordance with ARSD 74:36:07:88, as referenced to 40 CFR § 60.4211(c), the owner or operator shall demonstrate compliance with the emission limits in permit condition 9.1 by purchasing an engine certified to meet the emission limits in permit condition 9.1. The engine must be installed and configured according to the manufacturer’s emission-related specifications, except as permitted in permit condition 9.6.

9.5 Annual operation of emergency generator
In accordance with ARSD 74:36:07:88, as referenced to 40 CFR § 60.4211(f), the owner or operator may operate the emergency generator for the purpose of maintenance checks and readiness testing, provided the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency generator in emergency situations. The owner or operator may petition the Secretary for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating Federal, State, or local standards require maintenance and testing of emergency generators beyond 100 hours per year. Emergency generators may operate 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 generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited.

9.6 Alternative requirements for emergency generators
In accordance with ARSD 74:36:07:88, as referenced to 40 CFR § 60.4211(g)(3), if the owner or operator does not install, configure, operate, and maintain the generators according to the manufacturer’s emission-related written instructions or changes the emission-related settings in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as follows:

1. Maintain a maintenance plan and records of conducted maintenance;
2. To the extent practicable, maintain and operate the generator in a manner consistent with good air pollution control practice for minimizing emissions;
3. Conduct an initial performance test to demonstrate compliance with the emission limits in permit condition 9.1 within 1 year of startup, within 1 year after the emergency generator is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the owner or operator changes emission-related settings in a way that is not permitted by the manufacturer.

9.7 Performance test requirements for emergency generators
In accordance with ARSD 74:36:07:88, as referenced to 40 CFR § 60.4212(a) and (c), if the owner or operator conducts a performance test to demonstrate compliance with permit condition 9.1, the following procedures shall be followed:

1. The performance test must be conducted according to the in-use testing procedures in 40 CFR Part 1039, Subpart F; and
2. Exhaust emissions from the emergency generator must not exceed the “NTE” numerical requirements, rounded to the same number of decimal places as the applicable emission limit in permit condition 9.1 and determined by Equation 9-1.

Equation 9-1 – NTE formula

\[
NTE = 1.25 \times STD
\]

Where:
- NTE = Numerical requirement for each pollutant identified in Table 9-1; and
- STD = Emission limit for each pollutant identified in Table 9-1

9.8 Non-resettable clock
In accordance with ARSD 74:36:05:16.01(9), the owner or operator shall install, maintain, and operate a non-resettable hour meter on the emergency generator prior to initial startup.

10.0 MACT Subpart JJJJJJJ for Boilers Exemption

10.1 Residual oil and distillate oil restrictions
In accordance with 40 CFR § 63.11237, the owner or operator shall not use distillate oil as a fuel in Units #2 and/or #3, except during periods of natural gas curtailment, natural gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of residual oil and distillate oil shall not exceed a combined total of 48 hours during any calendar year per boiler.

10.2 Boiler recordkeeping requirements
In accordance with 40 CFR § 63.11237, the owner or operator shall maintain records of the number of hours Units #2 and/or #3 operated per day while being fueled with distillate oil. The reason Units #2 and/or #3 was operated with distillate oil (i.e., natural gas curtailment, natural gas supply interruption, or periodic testing) shall be identified. The total number of hours per calendar year for each reason shall be calculated and recorded at the end of the calendar year.
10.3 Changing boiler fuel
In accordance with 40 CFR § 63.11195(e), Units #2 and/or #3 shall be fueled only with natural gas and distillate oil during periods of gas curtailment, gas supply interruption, or periodic testing on liquid fuel. If Units #2 and/or #3 is fueled with other fuels such as coal or wood or residual oil or distillate oil outside the limitations identified in permit condition 10.1, requirements in 40 CFR Part 63 Subpart JJJJJJ may apply. The owner or operator shall apply for and obtain approval from the Secretary before other fuels can be used as a fuel in Units #2 and/or #3 or distillate oil can be used for other reasons besides natural gas curtailment, natural gas supply interruption, or periodic testing.