

Appendix K: Air Quality Construction Permit

MS 1/10/18



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

January 8, 2018

Mark Thoma, Manager/Environmental Services
Otter Tail – Astoria Station
PO Box 496
Fergus Falls, MN 56538-0496

Dear Mr. Thoma:

Enclosed is Otter Tail – Astoria Station construction permit to construct and operate a simple-cycle combustion turbine and associated equipment at your facility in Deuel County, South Dakota.

Please review the permit and contact Ashley Brakke at 605-773-3151, if you have any questions.

Thank you for your cooperation during the review process.

Sincerely,

A handwritten signature in cursive script that reads 'Teresa Williams'.


Teresa Williams
Senior Secretary
Air Quality Program

Enclosure

Permit #: 28.000017-01C

Effective Date: January 8, 2018




Steven M Pirner, Secretary
Department of Environment and Natural Resources

**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 construct and operate is hereby issued by the Secretary of the Department of Environment and Natural Resources. This permit authorizes such owner to construct and operate the permitted unit(s) at the location designated below and under the listed conditions.

A. Owner

1. Company Name and Mailing Address

Otter Tail – Astoria Station
P.O. Box 496
Fergus Falls, MN 56538-0496

2. Actual Source Location if Different from Above

SE ¼ NE ¼, Sec. 22-T113N-R48W Deuel County

3. Permit Contact

Mark Thoma, Manager/Environmental Services
(218) 739-8526

4. Facility Contact

Mark Thoma, Manager/Environmental Services
(218) 739-8526

5. Responsible Official

Mark Thoma, Manager/Environmental Services
(218) 739-8526

B. Permit Revisions

Not Applicable

C. Description of Construction Activity

Simple-cycle 250 Megawatt Combustion Turbine

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1.0 Standard Conditions

1.1 Construction and operation of source

In accordance with Administrative Rules of South Dakota (ARSD) 74:36:20:15(9), the owner or operator shall construct and 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 18, 2017, unless modified by the conditions of this permit. Except as otherwise provided herein, the control equipment in Table 1-1 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 that 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

Unit	Description	Operating Rate ¹	Control Equipment
#1	Simple-cycle combustion turbine fired on natural gas equipped with dry-low NOx burner	2,788 million Btus per hour	Not Applicable
#2	Natural gas dewpoint heater equipped with dry-low NOx burner	15 million Btus per hour	Not Applicable
#3	Compression ignition diesel fired pump	150 horsepower	Not Applicable
#4	Natural gas space heater(s)	3.5 million Btus per hour	Not Applicable

¹ – The operating rate is the nominal or manufacturer listed operating rate noted in the application and are descriptive only.

1.2 Duty to comply

In accordance with ARSD 74:36:20:15(12)(a) and (c), the owner or operator shall construct and operate in compliance 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 an application to operate. 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 74:36:20:15(12)(b), the 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 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 that are required under this permit;
3. Inspect the construction and 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 74:36:20:15(11), any portion of this permit that is void or challenged shall not affect the validity of the remaining permit requirements.

1.7 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 is as follows:

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at the source:
 - a. A monitoring method approved for the source 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 section (1) or (2)(a).

2.0 Construction and Operating Permit Deadlines

2.1 Commence construction

In accordance with ARSD 74:36:20:21, this permit becomes invalid if the owner or operator has not commenced construction within 18 months of the effective date of this permit; discontinued construction for a period of 18 months or more; or construction is not completed within 10 years of the effective date of this permit.

2.2 Submit operating permit application

In accordance with ARSD 74:36:20:20, the owner or operator shall submit a complete permit application for an operating permit pursuant to ARSD 74:36:05. A complete permit application for a Title V air quality operating permit shall be submitted within 12 months after the initial startup of combustion turbine. For the purpose of this permit condition, initial startup means the first time fuel is fired in the combustion turbine.

2.3 Operating in accordance with acid rain permit application

In accordance with 40 CFR § 72.30, the owner or operator must submit an acid rain permit application at least 24 months before the date of initial operation of the proposed facility.

3.0 Permit Revisions

3.1 Administrative permit amendment

In accordance with ARSD 74:36:20:16 and 74:36:20:17, the Secretary shall determine whether an administrative permit amendment is applicable to a proposed revision within 15 days from receiving a request for a permit revision. The Secretary shall issue an administrative permit amendment without the procedural requirements applicable to obtaining this construction permit. As provided in ASRD 74:36:01:03, the Secretary considers a proposed revision an administrative permit amendment if the proposed revision 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 at the source;
3. Requires more frequent monitoring or reporting by the source;
4. The ownership or operational control of a source changes and the Secretary determines that 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 change that the Secretary determines to be similar to those requirements in this condition.

3.2 Reopening permit

In accordance with ARSD 74:36:20:18 and 74:36:20:19, the Secretary may reopen this permit for further review if the Secretary determines the permit contains a material mistake in establishing the emissions standard or limits or other requirements of the construction permit or the Secretary determines the construction permit must be revised to ensure compliance with the applicable requirements of ARSD 74:36 and the federal Clean Air Act. The Secretary shall notify the owner or operator 30 days prior to reopening a construction permit or in a shorter time period in an emergency. The reopening of this construction permit shall follow the same procedural requirements to issue a construction permit and shall affect only those parts of the permit for which cause to reopen exist.

4.0 Recordkeeping and Reporting

4.1 Recordkeeping and reporting

In accordance with ARSD 74:36:20:15(10), 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. 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:

South Dakota Department of Environment and Natural Resources
PMB 2020, Air Quality Program
523 E. Capitol, Joe Foss Building
Pierre, SD 57501-3181

4.2 Construction date notification

In accordance with ARSD 74:36:07:01, as referenced to 40 CFR § 60.7(a)(1), the owner or operator shall notify the Secretary of the date construction commenced on the combustion turbine. The notification shall be postmarked no later than 30 days after such date.

4.3 Initial startup notification

In accordance with ARSD 74:36:07:01, as referenced to 40 CFR § 60.7(a)(3), the owner or operator shall notify the Secretary of the actual date of initial startup of the combustion turbine. The notification shall be postmarked no later than 15 days after such date. For the purpose of this permit condition, initial startup means the first time fuel is fired in the combustion turbine.

4.4 Certification statement

In accordance with ARSD 74:36:20:15(10), 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.”

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.

4.5 Reporting permit violations

In accordance with ARSD 74:36:20:15(10), 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) 773-5286.

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.

5.0 Control of Regulated Air Pollutants

5.1 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.

5.2 Visibility exceedances

In accordance with ARSD 74:36:12:02, an exceedance of the opacity limit in permit condition 5.1 is not considered a violation during brief periods of soot blowing, start-up, shutdown, or malfunctions. A malfunction is described as 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 of the source is not a malfunction and is considered a violation.

5.3 Total suspended particulate matter limits

In accordance with ARSD 74:36:06:02(1) and/or ARSD 74:36:06:03(1), the owner or operator shall not allow the emission of total suspended particulate matter in excess of the emission limit specified in Table 5-1 for the appropriate permitted unit, operations, and process.

Table 5-1 – Total Suspended Particulate Emission Limit

Unit	Description	Emission Limit
#1	Combustion Turbine	0.3 pounds per million Btus
#2	Dewpoint Heater	0.5 pounds per million Btus heat input

5.4 Sulfur dioxide limits

In accordance with ARSD 74:36:06:02(2) and/or ARSD 74:36:06:03(2), the owner or operator shall not allow the emission of sulfur dioxide in excess of the emission limit specified in Table 5-2 for the appropriate permitted unit, operations, and process.

Table 5-2 – Sulfur Dioxide Emission Limit

Unit	Description	Emission Limit
#2	Dewpoint Heater	3.0 pounds per million Btu heat input

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.

5.5 Circumvention not allowed

In accordance with ARSD 74:36:07:01, as referenced to 40 CFR § 60.12, the owner or operator may not install, use a device, or use a means that conceals or dilutes an air emission that would

otherwise violate this permit. This includes operating a unit or control device that emits air pollutants from an opening other than the designed stack, vent, or equivalent opening.

5.6 Minimizing emissions

In accordance with ARSD 74:36:07:01, as referenced to 40 CFR § 60.11(d), the owner or operator shall at all times, when practicable, maintain and operate all permitted units in a manner that minimizes air pollution emissions

6.0 PSD and Case-by-Case MACT Exemption

6.1 Nitrogen oxides limit for Unit #1

In accordance with ARSD 74:36:20:15(9), the owner or operator shall not emit into the ambient air greater than or equal to limits in Table 6-1 per 12-month rolling period.

Table 6-1: Nitrogen oxides 12- month Rolling Limit

Unit	Description	Limit
#1	Combustion Turbine	240 tons per 12-month rolling total

Compliance with the limit will be based on the continuous emission monitoring data.

6.2 Nitrogen oxides limit for Unit #2

In accordance with ARSD 74:36:20:15(9), the owner or operator shall not emit into the ambient air greater than or equal to limit in Table 6-2 per 12-month rolling period. The short term limit in Table 6-2 is established to ensure the long term facility limit of 245 tons per 12-month rolling period is not exceeded.

Table 6-2: Nitrogen oxides Short Term Limit

Unit	Description	Short Term Limit
#2	Dewpoint Heater	0.05 pounds per million Btu

Compliance with the limit will be based on the stack testing requirements in Chapter 7.0.

6.3 Carbon monoxide limits

In accordance with ARSD 74:36:20:15(9), the owner or operator shall not emit into the ambient air greater than or equal to limits in Table 6-3 per 12-month rolling period.

Table 6-3: Carbon Monoxide Short Term Limits

Unit	Description	Limit
#1	Combustion Turbine	238 tons per 12-month rolling total

Compliance with the limit will be based on the continuous emission monitoring data.

6.4 Operational limit on Unit #2

In accordance with ARSD 74:36:20:15(9), the owner or operator shall not combust more than 125 million cubic feet of natural gas per 12-month rolling period.

6.5 Heat input limit on natural gas heaters

In accordance with ARSD 74:36:20:15(9), the owner or operator shall not install and operate natural gas space heaters (Unit #4) with a combined maximum operating capacity in excess of a total 3.5 million Btus per hour heat input.

6.6 Monthly records

In accordance with ARSD 74:36:20:15(10), the owner or operator shall calculate and record the following amounts each month:

1. The amount of nitrogen oxides, in tons, emitted into the ambient air from Unit #1 during the month. A 12-month rolling total shall be calculated every month using that month's value and the previous 11 months' values. The amount of nitrogen oxides emitted to the ambient air from permitted units shall be calculated using the continuous emission monitoring system(s), the most recent performance test, or based on emission factors approved by the Secretary;
2. The amount of carbon monoxide, in tons, emitted into the ambient air from Unit #1 during the month. A 12-month rolling total shall be calculated every month using that month's value and the previous 11 months' values. The amount of carbon monoxide emitted to the ambient air from permitted units shall be calculated using the continuous emission monitoring system(s) or the most recent performance test; and
3. The volume of natural gas used in Unit #2 during the month and the 12-month rolling total for each month in the reporting period.

6.7 Quarterly reporting

In accordance with ARSD 74:36:20:15(10), the owner or operator shall submit a quarterly report to the Secretary by the end of each calendar quarter. The quarterly report shall contain the following information:

1. Name of facility, permit number, reference to this permit condition, identifying the submittal as a quarterly report, and calendar dates covered in the reporting period; and
2. The quantity of nitrogen oxides and carbon monoxide emitted, in tons, in each month and the 12-month rolling total for each month in the reporting period and supporting documentation.

6.8 Prevention of significant deterioration review exemption

The owner or operator is exempt from a prevention of significant deterioration review for nitrogen oxides and carbon monoxide. Any relaxation in a permit condition that increases applicable facility emissions equal to or greater than 250 tons per 12-month rolling period of nitrogen oxides and/or

carbon monoxide will require a full prevention of significant deterioration review as though construction had not commenced on the source.

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. 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 that is conducted while operating at less than 90 percent capacity 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 the 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 applicable or 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 that outlines 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 74:36:20:15(10), 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. 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 expressed in units consistent with the applicable emission limit;
5. Quality assurance procedures and results;
6. Records of unit's operating conditions during the test (e.g., operating rate, fuel type);
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.

7.7 Initial test of sulfur content of distillate oil and natural gas

In accordance with ARSD 74:36:11:02, the owner or operator shall obtain an initial fuel supplier certification for the first load of ultra-low sulfur distillate oil purchased or received. The fuel supplier certification shall include the following information:

1. The name of the oil supplier;
2. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil. Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2. Residual oil means crude oil, fuel 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"; and
3. A statement that the sulfur content of the oil does not exceed 0.0015 weight percent sulfur.

In the case where a fuel supplier certification is not obtained, the owner or operator shall collect a grab sample from the distillate oil storage tank. The grab sample shall be analyzed to determine the sulfur content of the distillate oil in the storage tank prior to burning the distillate oil.

The owner or operator shall obtain an initial fuel supplier certification certifying that the natural gas purchased or received is classified as pipeline quality natural gas as defined in the Acid Rain Program. In the case where a fuel supplier certification is not obtained, the owner or operator shall collect a sample that is representative of the natural gas that will be combusted in Unit #1.

7.8 Initial nitrogen oxides performance test

In accordance with ARSD 74:36:11:02, the owner or operator shall conduct an initial performance test on Unit #2. The initial performance test shall be conducted to determine emission rates of nitrogen oxides in pounds per hour and pounds per million Btus heat input. The initial performance test shall be conducted within 180 days after initial startup of the unit.

8.0 New Source Performance Standards

8.1 New source performance standard – Subpart Dc

In accordance with ARSD 74:36:07:05, as referenced to 40 CFR Part 60, Subpart Dc, the owner or operator shall comply with all applicable standards, fuel requirements, monitoring, compliance, testing, notification, reporting, and recordkeeping requirements in the standards of performance for small industrial-commercial-intuitional steam generating units (dewpoint heaters). This permit condition is applicable to Unit #2.

8.2 New source performance standard – Subpart IIII

In accordance with ARSD 74:36:07:88, as referenced to 40 CFR Part 60, Subpart IIII, the owner or operator shall comply with all applicable standards, fuel requirements, monitoring, compliance, testing, notification, reporting, and recordkeeping requirements in the standards of performance for stationary compression ignition internal combustion engines (fire pump). This permit condition is applicable to Unit #3.

8.3 New source performance standard – Subpart KKKK

In accordance with ARSD 74:36:07:89, as referenced to 40 CFR Part 60, Subpart KKKK, the owner or operator shall comply with all applicable notification, recordkeeping, performance testing, compliance with standards and maintenance requirements, monitoring, general control device requirements, general notice and reporting requirements, and standards of performance applicable to combustion turbines. This permit condition is applicable to Unit #1.

8.4 New source performance standard – Subpart TTTT

In accordance with 40 CFR Part 60, Subpart TTTT, the owner or operator shall comply with all applicable standards, fuel requirements, monitoring, compliance, testing, notification, reporting, and recordkeeping requirements in the standards of performance for greenhouse gas emissions

for electric generating units (combustion turbine). This permit condition is applicable to Unit #1.

9.0 Continuous Emission Monitoring Systems

9.1 Nitrogen oxides continuous emission monitoring system

In accordance with ARSD 74:36:07, ARSD 74:36:13 and ARSD 74:36:20, the owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring system for nitrogen oxides on Unit #1. The continuous emission monitoring system shall report the emission rates in pounds per million Btu heat input, pounds per hour, and tons. The continuous emission monitoring system shall measure and record the emissions at all times, including periods of startup, shutdown, malfunctions or emergency conditions. Monitor downtime is allowed for system breakdowns, repairs, calibration checks, zero and span adjustments, and when the unit is not in operation. The continuous emission monitoring system shall meet the performance specifications in 40 CFR Part 75, Appendix A, and the quality assurance requirements in 40 CFR Part 75, Appendix B.

9.2 Carbon monoxide continuous emission monitoring system

In accordance with ARSD 74:36:07, ARSD 74:36:13 and ARSD 74:36:20, the owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring system for carbon monoxide on Unit #1. The continuous emission monitoring system shall report the emission rates in pounds per million Btu heat input, pounds per hour, and tons. The continuous emission monitoring system shall measure and record the emissions at all times, including periods of startup, shutdown, malfunctions or emergency conditions. Monitor downtime is allowed for system breakdowns, repairs, calibration checks, zero and span adjustments, and when the unit is not in operation. The continuous emission monitoring system shall meet the performance specifications in 40 CFR Part 60, Appendix B and the quality assurance requirements in 40 CFR Part 60, Appendix F.

9.3 Initial certification of continuous emission monitoring system

In accordance with ARSD 74:36:11:02, the owner or operator shall conduct the initial certification of each continuous emission monitoring system within 60 days of achieving maximum production or within 180 days after initial startup of Unit #1, whichever comes first.