

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AIR QUALITY CONTROL MINOR PERMIT

Minor Permit: AQ0315MSS02 Revision 1 **Preliminary Date – September 20, 2024**
Rescinds Permit: AQ0315MSS02

The Alaska Department of Environmental Conservation (Department), under the authority of AS 46.14 and 18 AAC 50, issues Air Quality Control Minor Permit AQ0315MSS02 Revision 1 to the Permittee listed below.

Permittee: Aurora Energy, LLC
100 Cushman Street, Suite 210
Fairbanks, AK 99701

Stationary Source: Chena Power Plant

Location: 1206 1st Avenue
Fairbanks, Alaska 99701

Project: PM_{2.5} Serious Nonattainment State Implementation Plan (SIP)

Permit Contact: Dave Fish
907-452-8767
dfish@usibelli.com

The Permittee submitted an application for Minor Permit AQ0315MSS02 under AS 46.14.130(c)(2) because the Department found that public health or air quality effects provided a reasonable basis to regulate the stationary source. This minor permit was issued to make the Fairbanks PM_{2.5} State Implementation Plan's control strategies for the Aurora Energy, LLC's Chena Power Plant enforceable, as required under the State Air Quality Control Plan adopted on November 19, 2019.

With the issuance of Minor Permit AQ0315MSS02 Revision 1, the Department finds that public health or air quality effects still provide a reasonable basis to regulate the stationary source. This minor permit is issued to make the Fairbanks PM_{2.5} State Implementation Plan's control strategies for the Aurora Energy, LLC's Chena Power Plant enforceable, as required under the State Air Quality Control Plan adopted on November 19, 2019.

This permit satisfies the obligation of the Permittee to obtain a minor permit under 18 AAC 50. As required by AS 46.14.120(c), the Permittee shall comply with the terms and conditions of this permit.

The Department's Standard Permit Condition XIII – Coal Fired Boilers (as adopted July 22, 2020) and the Department's Default COMs Audit Procedures (as adopted August 20, 2008), have both been adopted into this minor permit.

James R. Plosay, Manager
Air Permits Program

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Abbreviations and Acronyms

AAC.....	Alaska Administrative Code	NESHAPs.....	National Emission Standards for Hazardous Air Pollutants [as contained in 40 C.F.R. 61 and 63]
ADEC.....	Alaska Department of Environmental Conservation	NOx.....	nitrogen oxides
AOS.....	Air Online Services	NRE.....	nonroad engine
AS.....	Alaska Statutes	NSPS.....	New Source Performance Standards [as contained in 40 C.F.R. 60]
ASTM.....	American Society for Testing and Materials	O & M.....	operation and maintenance
BACT.....	best available control technology	O ₂	oxygen
bhp.....	brake horsepower	PAL.....	plantwide applicability limitation
CDX.....	Central Data Exchange	PM-10.....	particulate matter less than or equal to a nominal 10 microns in diameter
CEDRI.....	Compliance and Emissions Data Reporting Interface	PM-2.5.....	particulate matter less than or equal to a nominal 2.5 microns in diameter
C.F.R.	Code of Federal Regulations	ppm.....	parts per million
CAA.....	Clean Air Act	ppmv, ppmvd.....	parts per million by volume on a dry basis
CO.....	carbon monoxide	ppmw.....	parts per million by weight
Department.....	Alaska Department of Environmental Conservation	psia.....	pounds per square inch (absolute)
dscf.....	dry standard cubic foot	PSD.....	prevention of significant deterioration
EPA.....	US Environmental Protection Agency	PTE.....	potential to emit
EU.....	emissions unit	SIC.....	Standard Industrial Classification
gr/dscf.....	grain per dry standard cubic foot (1 pound = 7000 grains)	SIP.....	State Implementation Plan
gph.....	gallons per hour	SPC.....	Standard Permit Condition or Standard Operating Permit Condition
HAPs.....	hazardous air pollutants [as defined in AS 46.14.990]	SO ₂	sulfur dioxide
hp.....	horsepower	The Act.....	Clean Air Act
ID.....	emissions unit identification number	TPH.....	tons per hour
kPa.....	kiloPascals	tpy.....	tons per year
LAER.....	lowest achievable emission rate	VOC.....	volatile organic compound [as defined in 40 C.F.R. 51.100(s)]
MACT.....	maximum achievable control technology [as defined in 40 C.F.R. 63]	VOL.....	volatile organic liquid [as defined in 40 C.F.R. 60.111b, Subpart Kb]
MMBtu/hr.....	million British thermal units per hour	vol%.....	volume percent
MMscf.....	million standard cubic feet	wt%.....	weight percent
MR&R.....	monitoring, recordkeeping, and reporting	wt% _{Fuel}	weight percent of sulfur in fuel

Section 1 Emissions Unit Inventory

Emissions Unit (EU) Authorization. The Permittee is authorized to install and operate the EUs listed in Table A and B in accordance with this minor permit terms and conditions and the applicable operating permit issued to the stationary source under AS 46.14 and 18 AAC 50. The information in Table A is for identification purposes only, unless otherwise noted in the permit.

Table A – Emission Unit Inventory

EU ID	Emissions Unit Name	Emissions Unit Description	Rating/Size	Installation or Construction Date
1	Coal Preparation Plant	Exhaust and Fugitive Emissions	75 tons/hour	1950 ¹
2	Coal Stockpile	Fugitive Emissions	0.59 acre	1950 ²
3	Ash Vacuum Pump Exhaust	Ash System Baghouse Exhaust	24,187 tons/yr (of ash)	1997
4	Chena 1 Coal-Fired Boiler	Full Stream Baghouse Exhaust	76.8 MMBtu/hr	1952
5	Chena 2 Coal-Fired Boiler	Full Stream Baghouse Exhaust	76.8 MMBtu/hr	1952
6	Chena 3 Coal-Fired Boiler	Full Stream Baghouse Exhaust	76.8 MMBtu/hr	1954
7	Chena 5 Coal-Fired Boiler	Full Stream Baghouse Exhaust	254.7 MMBtu/hr	1970

1. EU ID 1 was modified in 1990.
2. EU ID 2 was modified in 2013.

Table B – Fugitive Emission Unit Inventory

EU ID	Emissions Unit Name	Emissions Unit Description	Rating/Size	Installation or Construction Date
8	Truck Bay Ash Loadout	Bottom of silo – Fugitive Emissions	N/A	1952
9	Paved Roadways	Fugitive Emissions	N/A	1950

1. The Permittee shall comply with all applicable provisions of AS 46.14 and 18 AAC 50 when installing a replacement EU, including any applicable minor or construction permit requirements.

Section 2 Fee Requirements

2. **Fee Requirements.** The Permittee shall pay to the Department all assessed permit administration fees. Fee rates are set out in 18 AAC 50.400 through 499.
3. **Assessable Emissions.** For each period from July 1 through the following June 30, the Permittee shall pay to the Department an annual emission fee based on the stationary source's assessable emissions, as determined by the Department under 18 AAC 50.410. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit. The quantity for which fees will be assessed is the lesser of the stationary source's
 - 3.1 potential to emit of 3,602.2 TPY,¹ or
 - 3.2 projected annual rate of emissions, in TPY, based upon actual annual emissions for the most recent calendar year, or another 12-month period approved in writing by the Department, when demonstrated by credible evidence of actual emissions, based upon the most representative information available from one or more of the following methods:
 - a. an enforceable test method described in 18 AAC 50.220;
 - b. material balance calculations;
 - c. emission factors from EPA's publication AP-42, Vol. I, adopted by reference in 18 AAC 50.035; or
 - d. other methods and calculations approved by the Department, including appropriate vendor-provided emissions factors when sufficient documentation is provided.
4. **Assessable Emission Estimates.** The Permittee shall comply with the following:
 - 4.1 No later than March 31 of each year, the Permittee may submit an estimate of the stationary source's assessable emissions as determined in Condition 3.2. Submit actual emissions estimates in accordance with the submission instructions on the Department's Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-condition-i-submission-instructions/>.
 - 4.2 The Permittee shall include with the assessable emissions report all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates.
 - 4.3 If no estimate or waiver letter is submitted on or before March 31 of each year, emission fees for the next fiscal year will be based on the potential to emit set forth in Condition 3.1.

¹ The assessable PTE shown is the PTE for the stationary source as of the date of submittal of application for this permit. The stationary source's PTE will change upon the effective dates of the limits in Conditions 5 and 6. See TAR Table A for details.

Section 3 State Implementation Plan (SIP) Requirements

Fairbanks PM_{2.5} Serious Nonattainment Area SIP Requirements

5. **Coal-Fired Boiler Emissions Limits.** The Permittee shall limit the emissions from the coal-fired boilers EU IDs 4 through 7 as specified in Table C.

Table C – EU IDs 4 through 7 SIP BACT Limits

Pollutant	BACT Control	BACT Emissions Limit
PM _{2.5}	Good Combustion Practices	0.045 lb/MMBtu (3-hour average)
	Full Stream Baghouse System	State Visible Emissions Standard 18 AAC 50.055(a)(9)

- 5.1 For EU IDs 4 through 7 the Permittee shall:
- a. Conduct a one-time source test on the common stack of EU IDs 4 through 7 after the control device, in accordance with Section 6, within 180 days of permit issuance, or by June of the year following the date of permit issuance, whichever comes later, to demonstrate compliance with the PM_{2.5} emissions limit listed in Table C.
 - (i) Conduct the source test at the maximum achievable load of EU IDs 4 through 7 using EPA Methods 201A and 202.
 - (ii) Emission results shall be reported as the arithmetic 3-hour average of all valid test runs and shall be written in units of lb/MMBtu.
 - (iii) The Permittee shall report the results of the source test in accordance with Condition 29.
 - (iv) Include a summary of the source test results in the next operating report that is due after the submittal date of the source test report in accordance with Condition 14.
 - b. Report the compliance status with the PM_{2.5} emissions limit in Table C in accordance with each annual compliance certification described in Condition 15.
 - c. Operate the EU with fabric filters and maintain good combustion practices at all times of operation.
 - (i) Keep records of the date and time identifying each time-period that an EU is operated without a fabric filter.
 - (ii) Perform regular maintenance according to the manufacturer’s and the operator’s maintenance requirements and procedures.
 - (iii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept in electronic format.
 - (iv) Keep a copy of the manufacturer’s and the operator’s maintenance procedures.
 - (v) Operate the EU consistent with manufacturer’s recommended combustion settings (e.g., maximum CO, excess air in flue gas, and other relevant parameters) or those

established during the source test conducted to demonstrate compliance with the BACT emissions limit in Table C.

- d. Monitor visible emissions to ensure compliance with the State Visible Emissions Standard in Table C using a Continuous Opacity Monitoring System (COMS).
 - (i) The Permittee shall demonstrate compliance with Condition 5.1d by following the Department’s Standard Permit Condition XIII – Coal Fired Boilers (as adopted July 22, 2020), as well as the Department’s Default COMs Audit Procedures (as adopted August 20, 2008), both of which are available on the following website: <https://dec.alaska.gov/air/air-permit/standard-conditions/>.
- e. Report in accordance with Condition 14
 - (i) a summary of the maintenance records collected under Condition 5.1c(iii); and
 - (ii) highest 6-minute average opacity measured by the COMs during the reporting period under Condition 5.1d.
- f. Report in accordance with Condition 13, whenever
 - (i) an emissions rate determined by the source test required by Condition 5.1a exceeds the limit in Table C;
 - (ii) a boiler is operated without a fabric filter as recorded in Condition 5.1c(i); or
 - (iii) any of Conditions 5.1a through 5.1e are not met.

6. **Material Handling Emissions Limits.** The Permittee shall limit the emission from the material handling EU IDs 1 and 3 as specified in Table D.

Table D – EU IDs 1, 2, 3, and 8 SIP BACT Limits

Pollutant	EU ID	BACT Control	BACT Emissions Limit
PM _{2.5}	1	Partial Enclosure	0.34 tpy
	3	Full Enclosure Fabric Filter	0.23 tpy

- 6.1 For EU IDs 1 and 3, the Permittee shall demonstrate compliance with the PM_{2.5} requirements in Table D as follows:
- a. For each of the EUs, the Permittee shall within six months of issuance of this permit either:
 - (i) Provide vendor data documenting that EU IDs, 1 and 3 meet the emissions limits of Table D; or
 - (ii) Perform an initial Method 9 observation. For all Method 9 observations, observe emissions unit exhaust for 18 consecutive minutes to obtain a minimum of 72 consecutive 15-second opacity observations in accordance with Method 9 of 40 C.F.R. 60, Appendix A-4; or

- (iii) Provide documentation of the previous submittal where the obligations of Conditions 6.1a(i) or 6.1a(ii) were met.
 - b. If the 18 consecutive minutes of the initial Method 9 observations conducted under Condition 6.1a(ii) result in an 18-minute average opacity greater than 20 percent, the Permittee shall conduct a PM_{2.5} source test in accordance with the methods and procedures specified in 40 C.F.R. 60 Appendix A and Section 6 to determine the PM_{2.5} emission rate.
 - (i) If required under Condition 6.1b, the Permittee shall report the results of the source test(s) in accordance with Condition 29.
 - (ii) If required under Condition 6.1a(ii), include copies of the results of initial Method 9 observations conducted under Condition 6.1a(ii) in the first operating report required under Condition 14.
 - c. Report the compliance status with the PM_{2.5} emissions limits in Table D in accordance with each annual compliance certification described in Condition 15.
- 6.2 For EU ID 1, the Permittee shall:
- a. Operate the EU in a partial enclosure.
 - (i) Keep records of the date and time identifying each time period the EU is operated outside of a partial enclosure.
- 6.3 For EU ID 3, the Permittee shall:
- a. Operate the EU with fabric filters at all times of operation.
 - (i) Keep records of the date and time identifying each time period that the EU is operated without a fabric filter.
 - (ii) Perform regular maintenance according to the manufacturer's and the operator's maintenance requirements and procedures.
 - (iii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept in electronic format.
 - (iv) Keep a copy of the manufacturer's and the operator's maintenance procedures.
 - b. Operate the EU in a full enclosure.
 - (i) Keep records of the date and time identifying each time period the EU is operated outside of a full enclosure.
- 6.4 Report in accordance with Condition 14 a summary of the records collected under Condition 6.3a(iii).
- 6.5 Report in accordance with Condition 13, whenever
- a. an emissions rate exceeds a limit in Table D;
 - b. EU ID 1 is operated outside of a partial enclosure as recorded in Condition 6.2a(i);
 - c. EU ID 3 is operated without a fabric filter as recorded in Condition 6.3a(i);

- d. EU ID 3 is operated outside of a full enclosure as recorded in Condition 6.3b(i); or
- e. any of Conditions 6.1 through 6.4 are not met.

7. **Coal Stockpile.** The Permittee shall limit the PM_{2.5} emissions from the coal stockpile EU ID 2 as specified in Table E.

Table E – EU ID 2 SIP BACT Limits

Pollutant	BACT Control	BACT Emissions Limit
PM _{2.5}	Best Management Practices	0.14 tpy

7.1 For EU ID 8, the Permittee shall demonstrate compliance with the PM_{2.5} requirements in Table E as follows:

- a. Perform best management practices to minimize fugitive emissions from the coal stockpile EU ID 8.
 - (i) Keep records of the date and time identifying each time that fugitive emissions were observed from EU ID 8 and what measures were taken to minimize the emissions.
- b. Report the compliance status with the PM_{2.5} emissions limit in Table E in accordance with each annual compliance certification described in Condition 15.
- c. Report in accordance with Condition 13, whenever
 - (i) a limit in Table E is exceeded; or
 - (ii) whenever any of the requirements in Conditions 7.1a through 7.1b are not met.

8. **Truck Bay Ash Loadout.** The Permittee shall limit the PM_{2.5} emissions from the truck bay ash loadout EU ID 8 as specified in Table F.

Table F – EU ID 8 SIP BACT Limits

Pollutant	BACT Control	BACT Emissions Limit
PM _{2.5}	Full Enclosure	0.0004 tpy

8.1 For EU ID 8, the Permittee shall demonstrate compliance with the PM_{2.5} requirements in Table F as follows:

- a. Operate EU ID 8 in an enclosure during all ash loadout operations.
 - (i) Monitor that overhead door(s) at truck bay ash loadout building are closed while loading the trucks. Monitor that ash truck bodies are free of ash before they leave the building, and that their loads are tarped before they leave the building area. Minimize fugitive dust from coal ash handling operations.
 - (ii) Keep records of the date and time identifying each time period that EU ID 8 was not enclosed during ash loadout operations.

- b. Report the compliance status with the PM_{2.5} emissions limit in Table F in accordance with each annual compliance certification described in Condition 15.
- c. Report in accordance with Condition 13, whenever
 - (i) a limit in Table F is exceeded; or
 - (ii) whenever any of the requirements in Conditions 8.1a through 8.1b are not met.

Section 4 Recordkeeping, Reporting, and Certification Requirements

Recordkeeping Requirements

9. The Permittee shall keep all records required by this permit for at least five years after the date of collection, including:
 - 9.1 Copies of all reports and certifications submitted pursuant to this section of the permit; and
 - 9.2 Records of all monitoring required by this permit, and information about the monitoring including:
 - a. the date, place, and time of sampling or measurements;
 - b. the date(s) analyses were performed;
 - c. the company or entity that performed the analyses;
 - d. the analytical techniques or methods used;
 - e. the results of such analyses; and
 - f. the operating conditions as existing at the time of sampling or measurement.

Reporting Requirements

10. **Certification.** The Permittee shall certify any permit application, report, affirmation, or compliance certification submitted to the Department and required under the permit by including the signature of a responsible official for the permitted stationary source following the statement: *“Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.”* Excess emission reports must be certified either upon submittal or with an operating report required for the same reporting period. All other reports and other documents must be certified upon submittal.
 - 10.1 The Department may accept an electronic signature on an electronic application or other electronic record required by the Department if the person providing the electronic signature
 - a. uses a security procedure, as defined in AS 09.80.190, that the Department has approved; and
 - b. accepts or agrees to be bound by an electronic record executed or adopted with that signature.
11. **Submittals.** Unless otherwise directed by the Department or this permit, the Permittee shall submit to the Department one certified copy of reports, compliance certifications, and/or other submittals required by this permit. The Permittee may submit the documents electronically or by hard copy.
 - 11.1 Submit the certified copy of reports, compliance certifications, and/or other submittals in accordance with the submission instructions on the Department’s Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-condition-xvii-submission-instructions/>.
12. **Information Requests.** The Permittee shall furnish to the Department, within a reasonable time, any information the Department requests in writing to determine whether cause exists to modify, revoke, reissue, or terminate the permit or to determine compliance with the permit. Upon request, the Permittee shall furnish to the Department copies of records required to be kept by the permit. The Department may require the Permittee to furnish copies of those records directly to the federal administrator.

13. **Excess Emissions and Permit Deviation Reports.** The Permittee shall report excess emissions and permit deviations as follows:
- 13.1 **Excess Emissions Reporting.** The Permittee shall report all emissions or operations that exceed emissions standards or limits of this permit as follows:
- a. In accordance with 18 AAC 50.240(c), as soon as possible, report
 - (i) excess emissions that present a potential threat to human health or safety; and
 - (ii) excess emissions that the Permittee believes to be unavoidable.
 - b. In accordance with 18 AAC 50.235(a), within two working days after the event commenced or was discovered, report an unavoidable emergency, malfunction, or nonroutine repair that causes emissions in excess of a technology-based emission standard.
 - c. If a continuous or recurring excess emissions is not corrected within 48 hours of discovery, report within 72 hours of discovery unless the Department provides written permission to report under Condition 13.1d.
 - d. Report all other excess emissions not described in Conditions 13.1a, 13.1b, and 13.1c within 30 days after the end of the month during which the excess emissions occurred or as part of the next routine operating report in Condition 14 for excess emissions that occurred during the period covered by the report, whichever is sooner.
 - e. If requested by the Department, the Permittee shall provide a more detailed written report to follow up on an excess emissions report.
- 13.2 **Permit Deviations Reporting.** For permit deviations that are not “excess emissions,” as defined under 18 AAC 50.990:
- a. Report all other permit deviations within 30 days after the end of the month during which the deviation occurred or as part of the next routine operating report in Condition 14 for permit deviations that occurred during the period covered by the report, whichever is sooner.
- 13.3 **Reporting Instructions.** When reporting either excess emissions or permit deviations, the Permittee shall report using the Department’s online form for all such submittals, beginning no later than September 7, 2023. The form can be found at the Division of Air Quality’s Air Online Services (AOS) system webpage <http://dec.alaska.gov/applications/air/airtoolsweb> using the Permittee Portal option. Alternatively, upon written Department approval, the Permittee may submit the form contained in Section 7 of this permit. The Permittee must provide all information called for by the form that is used. Submit the report in accordance with the submission instructions on the Department’s Standard Permit Conditions webpage found at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.
14. **Operating Reports.** During the life of this permit², the Permittee shall submit to the Department an operating report in accordance with Conditions 10 and 11 by August 1 for the period January 1 to

² *Life of this permit* is defined as the permit effective dates, including any periods of reporting obligations that extend beyond the permit effective dates. For example if a permit expires prior to the end of a calendar year, there is still a reporting obligation to provide operating reports for the periods when the permit was in effect.

June 30 of the current year and by February 1 for the period July 1 to December 31 of the previous year.

14.1 The operating report must include all information required to be in operating reports by other conditions of this permit, for the period covered by the report.

14.2 When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 14.1, the Permittee shall identify

- a. the date of the excess emissions or permit deviation;
- b. the equipment involved;
- c. the permit condition affected;
- d. a description of the excess emissions or permit deviation; and
- e. any corrective action or preventive measures taken and the date(s) of such actions; or

14.3 when excess emissions or permit deviation reports have already been reported under Condition 13 during the period covered by the operating report, the Permittee shall either

- a. include a copy of those excess emissions or permit deviation reports with the operating report; or
- b. cite the date(s) of those reports.

15. **Annual Compliance Certification.** Each year by March 31, the Permittee shall compile and submit to the Department an annual compliance certification report according to Condition 10.

15.1 Certify the compliance status of the stationary source over the preceding calendar year consistent with the monitoring required by this permit, as follows:

- a. Identify each term or condition set forth in Section 2 through Section 6, that is the basis of the certification;
- b. Briefly describe each method used to determine the compliance status;
- c. state whether compliance is intermittent or continuous; and
- d. identify each deviation and take it into account in the compliance certification.

15.2 In addition, submit a copy of the report directly to the Clean Air Act Compliance Manager, US EPA Region 10, ATTN: Air Toxics and Enforcement Section, Mail Stop: 20-C04, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188.

Section 5 *Standard Permit Conditions*

16. The Permittee must comply with each permit term and condition. Noncompliance with a permit term or condition constitutes a violation of AS 46.14, 18 AAC 50, and, except for those terms or conditions designated in the permit as not federally enforceable, the Clean Air Act, and is grounds for
 - 16.1 an enforcement action; or
 - 16.2 permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280.
17. It is not a defense in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with a permit term or condition.
18. Each permit term and condition is independent of the permit as a whole and remains valid regardless of a challenge to any other part of the permit.
19. The permit may be modified, reopened, revoked and reissued, or terminated for cause. A request by the Permittee for modification, revocation and reissuance, or termination or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
20. The permit does not convey any property rights of any sort, nor any exclusive privilege.
21. The Permittee shall allow the Department or an inspector authorized by the Department, upon presentation of credentials and at reasonable times with the consent of the owner or operator to
 - 21.1 enter upon the premises where an emissions unit subject to this permit is located or where records required by the permit are kept;
 - 21.2 have access to and copy any records required by this permit;
 - 21.3 inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
 - 21.4 sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.

Section 6 General Source Test Requirements

22. **Requested Source Tests.** In addition to any source testing explicitly required by this permit, the Permittee shall conduct source testing as requested by the Department to determine compliance with applicable permit requirements.
23. **Operating Conditions.** Unless otherwise specified by an applicable requirement or test method, the Permittee shall conduct source testing
 - 23.1 at a point or points that characterize the actual discharge into the ambient air; and
 - 23.2 at the maximum rated burning or operating capacity of the emissions unit or another rate determined by the Department to characterize the actual discharge into the ambient air.
24. **Reference Test Methods.** The Permittee shall use the following references for test methods when conducting source testing for compliance with this permit:
 - 24.1 Source testing for the reduction in visibility through the exhaust effluent must be conducted in accordance with the procedures set out in 40 C.F.R. 60, Appendix A, Reference Method 9. The Permittee may use the form in Attachment 1 of this permit to record data.
 - 24.2 Source testing for emissions of total particulate matter, sulfur compounds, nitrogen compounds, carbon monoxide, lead, volatile organic compounds, fluorides, sulfuric acid mist, municipal waste combustor organics, metals and acid gases must be conducted in accordance with the methods and procedures specified in 40 C.F.R. 60, Appendix A.
 - 24.3 Source testing for emissions of PM₁₀ and PM_{2.5} must be conducted in accordance with the procedures specified in 40 C.F.R. 51, Appendix M, Methods 201 or 201A and 202.
 - 24.4 Source testing for emissions of any contaminant may be determined using an alternative method approved by the Department in accordance with 40 C.F.R. 63 Appendix A, Method 301.
25. **Excess Air Requirements.** To determine compliance with this permit, standard exhaust gas volumes must include only the volume of gases formed from the theoretical combustion of the fuel, plus the excess air volume normal for the specific emissions unit type, corrected to standard conditions (dry gas at 68° F and an absolute pressure of 760 millimeters of mercury).
26. **Test Deadline Extension.** The Permittee may request an extension to a source test deadline established by the Department. The Permittee may delay a source test beyond the original deadline only if the extension is approved in writing by the Department's appropriate division director or designee.
27. **Test Plans.** Before conducting any source tests, the Permittee shall submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance and must specify how the emissions unit will operate during the test and how the Permittee will document that operation. The Permittee shall submit a complete plan within 60 days after receiving a request under Condition 22 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be done without resubmitting the plan.
28. **Test Notification.** At least 10 days before conducting a source test, the Permittee shall give the Department written notice of the date and time the source test will begin.
29. **Test Reports.** Within 60 days after completing a source test, the Permittee shall submit one certified copy of the results in the format set out in the *Source Test Report Outline*, adopted by

reference in 18 AAC 50.030. The Permittee shall certify the results in the manner set out in Condition 10. If requested in writing by the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.

Section 7 Notification Form³

Chena Power Plant

Stationary Source Name

Aurora Energy, LLC

Company Name

AQ0315MSS02 Revision 1

Air Quality Permit Number.

When did you discover the Excess Emissions/Permit Deviation?

Date: ____ / ____ / ____

Time: ____ : ____

When did the event/deviation occur?

Begin: Date: ____ / ____ / ____ Time: ____ : ____ (please use 24-hr clock)

End: Date: ____ / ____ / ____ Time: ____ : ____ (please use 24-hr clock)

What was the duration of the event/deviation? ____ : ____ (hrs:min) or ____ days

(total # of hrs, min, or days, if intermittent then include only the duration of the actual emissions/deviation)

Reason for Notification (Please check only 1 box and go to the corresponding section.):

Excess Emissions - Complete Section 1 and Certify

Note: All "excess emissions" are also "permit deviations." However, use only Section 1 for events that involve excess emissions.

Deviation from Permit Conditions - Complete Section 2 and Certify

Note: Use only Section 2 for permit deviations that do not involve excess emissions.

Deviation from COBC⁴, CO⁵, or Settlement Agreement - Complete Section 2 and Certify

³ Revised as of November 7, 2020.

⁴ Compliance Order By Consent

⁵ Compliance Order

Section 1. Excess Emissions

(a) **Was the exceedance** Intermittent or Continuous

(b) **Cause of Event** (Check one that applies. Complete a separate form for each event, as applicable.):

- Start Up/Shut Down
- Control Equipment Failure
- Bad fuel/coal/gas
- Other _____
- Natural Cause (weather/earthquake/flood)
- Scheduled Maintenance/Equipment Adjustments
- Upset Condition

(c) **Description**

Describe briefly what happened and the cause. Include the parameters/operating conditions exceeded, limits, monitoring data and exceedance. Attach supporting information if necessary.

(d) **Emissions Units (EU) Involved:**

Identify the emissions units involved in the event, using the same identification number and name as in the permit. Identify each emission standard potentially exceeded during the event and the exceedance.

EU ID	EU Name	Permit Condition Exceeded/Limit/Potential Exceedance

(e) **Type of Incident:** (Please check all that apply and provide the value requested, if any):

- Opacity _____%
- Control Equipment Down
- Venting _____(gas/scf)
- Fugitive Emissions

Emission Limit Exceeded

Marine Vessel Opacity

Flaring

Other: _____

(f) Corrective Actions:

Describe actions taken to restore the system to normal operation and to minimize or eliminate chances of a recurrence. Attach supporting information if necessary.

(g) Unavoidable Emissions:

Do you intend to assert that these excess emissions were unavoidable? YES NO

Do you intend to assert the affirmative defense of 18 AAC 50.235? YES NO

Certify Report (go to end of form)

Section 2. Permit Deviations

(a) **Permit Deviation Type:** (Check all boxes that apply per event. Complete a separate form for each event, as applicable.)

- Emissions Unit-Specific Requirements
- Stationary Source-Wide Specific Requirements
- Monitoring/Recordkeeping/Reporting Requirements
- General Source Test Requirements
- Compliance Certification Requirements
- Standard/Generally Applicable Requirements
- Insignificant Emissions Unit Requirements
- Other: _____

(b) **Emissions Units (EU) Involved:**

Identify the emissions units involved in the event, using the same identification number and name as in the permit. List the corresponding permit condition and the deviation.

EU ID	EU Name	Permit Condition /Potential Deviation

(c) **Description of Potential Deviation:**

Describe briefly what happened and the cause. Include the parameters/operating conditions and the potential deviation. Attach supporting information if necessary.

(d) **Corrective Actions:**

Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence. Attach supporting information if necessary.

Certification:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name: _____ Title _____ Date _____
Signature: _____ Phone number _____

***NOTE:** This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 10.)*

Beginning September 7, 2023, Excess Emissions and Permit Deviations must be submitted through the AOS Permittee Portal at <http://dec.alaska.gov/applications/air/airtoolsweb/>.

This Notification Form may only be used to satisfy the reporting requirements if the Department has approved alternative reporting options in writing prior to submittal.

Section 8 *Permit Documentation*

Date

July 30, 2024

Document Details

The Department sent Aurora Energy, LLC a Notice of Intent to Revoke and Reissue Minor Permit AQ0315MSS02 and Title V Operating Permit AQ0315TVP04 Revision 2 for the Chena Power Plant under AS 46.14.280(a)(2).