DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AIR QUALITY CONTROL MINOR PERMIT

Minor Permit: AQ0110MSS01 Revision 1 Preliminary Date – September 20, 2024
Rescinds Permit: AQ0110MSS01

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

Permittee:	**Golden Valley Electric Association** PO Box 71249 Fairbanks, AK 99707
Stationary Source:	**North Pole Power Plant**
Location:	North Pole, Alaska Latitude: 64.7344° North; Longitude: 147.3453° West
Project:	$PM_{2.5}$ Serious Nonattainment State Implemtation Plan (SIP)
Permit Contact:	Naomi Morton Knight, P.E. 907-458-4557 NMKnight@gvea.com

The Permittee submitted an application for Minor Permit AQ0110MSS01 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 finding is contained in the State Air Quality Control Plan adopted on November 19, 2019.

With the issuance of AQ0110MSS01 Revision 1, The Department finds that public health or air quality effects still provide a reasonable basis to regulate the stationary source under AS 46.14.130(c)(2). This finding is contained in the State Air Quality Control Plan adopted on November 19, 2019, for the $PM_{2.5}$ Serious Nonattainment area.

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.

Conditions 16 through 16.4b of Construction Permit AQ0110CPT01 Rev. 1 have been adopted into this minor permit.

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James R. Plosay, Manager
Air Permits Program

Table of Contents

Abbreviations and Acronyms

AAC.....Alaska Administrative Code
AAAQS .....Alaska Ambient Air Quality Standards
ADEC .....Alaska Department of Environmental Conservation
AOS .....Air Online Services
AS .....Alaska Statutes
ASTM .....American Society for Testing and Materials
BACM .....Best Available Control Measures
BACT .....Best Available Control Technology
bhp .....Brake Horsepower
CAA.....Clean Air Act
CDX.....Central Data Exchange
CEDRI .....Compliance and Emissions Data Reporting Interface
CEMS .....Continuous Emissions Monitoring System
CFR. .....Code of Federal Regulations
CMS.....Continuous Monitoring System
CO .....Carbon Monoxide
CO_2e .....CO_2-equivalent
dscf .....Dry Standard Cubic Foot
EPA .....US Environmental Protection Agency
EU.....Emissions Unit
EU ID(s) .....Emissions Unit Identification Number(s)
GHG .....Greenhouse Gas
gph .....Gallons Per Hour
gr/dscf.....Grain per Dry Standard Cubic Foot (1 pound = 7000 grains)
GVEA .....Golden Valley Electric Association
HAPs .....Hazardous Air Pollutants [as defined in AS 46.14.990]
hp .....Horsepower
kW .....Kilowatt
LAER.....Lowest Achievable Emission Rate
MACT .....Maximum Achievable Control Technology [as defined in 40 C.F.R. 63]
MMBtu/hr.....Million British Thermal Units per Hour
MMscf .....Million Standard Cubic Feet
MR&R.....Monitoring, Recordkeeping, and Reporting
NA .....Not Applicable
NAICS.....North American Industrial Classification System
NESHAPs.....National Emission Standards for Hazardous Air Pollutants [as contained in 40 C.F.R. 61 and 63]
NH_3.....Ammonia
NOx .....Nitrogen Oxides
NSPS .....New Source Performance Standards [as contained in 40 C.F.R. 60]
O_2.....Oxygen
ORL.....Owner Requested Limit
PAL .....Plantwide Applicability Limitation
Pb.....Lead
$PM_{2.5}$.....Particulate Matter [2.5 nominal microns or less in diameter]
PM_{10} .....Particulate Matter [10 nominal microns or less in diameter]
ppm .....Parts Per Million
ppmv, ppmvd.....Parts Per Million by Volume on a Dry Basis
ppmw ……Parts Per Million by Weight
psia .....Pounds per Square Inch (Absolute)
PSD .....Prevention of Significant Deterioration
PTE.....Potential To Emit
SIC.....Standard Industrial Classification
SIP .....State Implementation Plan
SO_2 .....Sulfur Dioxide
SPC.....Standard Permit Condition or Standard Operating Permit Condition
TPY .....Tons Per Year
ULSD .....Ultra-Low Sulfur Diesel
VOC .....Volatile Organic Compound [as defined in 40 C.F.R. 51.100(s)]
VOL.....Volatile Organic Liquid [as defined in 40 C.F.R. 60.111b, Subpart Kb]
vol% .....Volume Percent
wt% .....Weight Percent
wt%S_{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 1 in accordance with the minor permit application and the terms and conditions of this permit. The information in Table 1 is for identification purposes only, unless otherwise noted in the permit. The specific EU descriptions do not restrict the Permittee from replacing an EU identified in Table 1.

Table 1 – EU Inventory

EU ID	Emissions Unit Name	Emissions Unit Description	Fuel	Rating/Size	Installation or Construction Date
1	GT#1	GE Frame 7, Series 7001 Regenerative Gas Turbine	Fuel Oil	672 MMBtu/hr (60.5 MW)	1976
2	GT#2	GE Frame 7, Series 7001 Regenerative Gas Turbine	Fuel Oil	672 MMBtu/hr (60.5 MW)	1977
5	GT#3	GE LM6000PC Gas Turbine (water injection for NO_x control) (oxidation catalyst for CO control)	Naphtha/LSR Jet A	455 MMBtu/hr (43 MW, nominal)	2005
6	GT#4	GE LM6000PC Gas Turbine (water injection for NO_x control) (oxidation catalyst for CO control)	Naphtha/LSR Jet A	455 MMBtu/hr (43 MW, nominal)	Not Installed
7	Emergency Generator	Mitsubishi Engine #0A8829 (Generac Gen Set #5231150100)	Fuel Oil	565 hp	2005
11	Building Boiler	Bryan Steam RV500 Boiler	Propane	5.0 MMBtu/hr	2005
12	Building Boiler	Bryan Steam RV500 Boiler	Propane	5.0 MMBtu/hr	2005

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 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 annual emission fees 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 6,663.8 TPY; 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 as follows:

   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 out in Condition 3.1.

Section 3 State Implementation Plan (SIP) Requirements

Fairbanks $PM_{2.5}$ Serious Nonattainment Area SIP Requirements

5. **Simple Cycle Turbine Emissions Limit.** The Permittee shall limit the emissions form the simple cycle gas tubrine EU IDs 1 and 2 as specified in Table 2.

Table 2 - EU IDs 1 and 2 SIP BACT Limits

Pollutant	BACT Control	Fuel Type	BACT Emissions Limit
$PM_{2.5}$	Good Combustion Practices and Limited Operation	Low Ash (Distillate) Fuel	0.012 lb/MMBtu (3-hour average)

5.1 For EU IDs 1 and 2, the Permittee shall:

a. Conduct an initial source test on EU IDs 1 and/or 2 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 2.

(i) Conduct the source test for at least three loads representative of the normal operating range of the EU. The Permittee may perform testing at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice.

(ii) Emission results shall be reported as the arithmetic 3-hour average of all valid test runs and shall be in units of lb/MMBtu.

(iii) The Permittee shall report the results of the source test in accordance with Condition 27.

(iv) Include the following in the next operating report in accordance with Condition 12, that is due after the submittal date of the source test report:

(A) a summary of the source test results; and

(B) relevant combustion settings (including but not limited to average CO and O_2 concentrations in the flue gas) established during the source test that demonstrates compliance with the BACT $PM_{2.5}$ emissions limit in Table 2.

b. Report the compliance status with the $PM_{2.5}$ emissions limit in Table 2 in accordance with each annual compliance certification described in Condition 13.

c. Combust only low ash (distillate) fuel.

(i) For each shipment of fuel, keep receipts that specify the fuel grade and amount.

(ii) Include copies of the records required by Condition 5.1c(i) for the reporting period, in each operating report required by Condition 12.

d. Maintain good combustion practices at all times the EUs are in operation.

(i) Perform regular maintenance according to the manufacturer's and the operator's maintenance requirements and procedures.

(ii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept in electronic format.

(iii) Keep a copy of the manufacturer's and the operator's maintenance procedures.

(iv) Report in accordance with Condition 12, a summary of the maintenance records collected under Condition 5.1d(ii).

(v) Operate the EUs 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 2.

(A) For each of EU IDs 1 and 2, measure and record the CO and O_2 concentrations in the exhaust stream using a portable handheld combustion analyzer during or within 30 days after the end of a calendar quarter that the EU operates.[1]

(B) Include copies of the records required by Condition 5.1d(v)(A) for the reporting period, in each operating report required by Condition 12.

e. Report in accordance with Condition 11, whenever

(i) an emissions rate determined by the source test required by Condition 5.1a exceeds the limit in Table 2; or

(ii) any of Conditions 5.1a through 5.1d are not met.

5.2 For EU ID 1, the Permittee shall comply with Condition 6.2.

6. **Combined Cycle Turbine Emissions Limit.** The Permittee shall limit the emissions from the gas tubrine EU IDs 5 and 6 as specified in Table 3.

Table 3 - EU IDs 5 and 6 SIP BACT Limits

Pollutant	BACT Contol	BACT Emissions Limit

[1] It is not the Department's intention to require the Permittee to start up an EU just to perform the CO and O_2 concentration measurements.

$PM_{2.5}$	Good Combustion Pratices and Limited Operation	0.012 lb/MMBTU (3-hour average)

6.1 For EU IDs 5 and 6, the Permittee shall:

a. Conduct an initial source test on EU IDs 5 and/or 6 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 3.

(i) Conduct the source test for at least three loads representative of the normal operating range of the EU. The Permittee may perform testing at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice.

(ii) Emission results shall be reported as the arithmetic 3-hour average of all valid test runs and shall be in units of lb/MMBtu.

(iii) The Permittee shall report the results of the source test in accordance with Condition 27.

(iv) Include the following in the next operating report in accordance with Condition 12, that is due after the submittal date of the source test report:

(A) a summary of the source test results; and

(B) relevant combustion settings (including but not limited to average CO and O_2 concentrations in the flue gas) established during the source test that demonstrates compliance with the BACT $PM_{2.5}$ emissions limit in Table 3.

b. Report the compliance status with the $PM_{2.5}$ emissions limit in Table 3 in accordance with each annual compliance certification described in Condition 13.

c. Maintain good combustion practices at all times the EUs are in operation.

(i) Perform regular maintenance according to the manufacturer's and the operator's maintenance requirements and procedures.

(ii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept in electronic format.

(iii) Keep a copy of the manufacturer's and the operator's maintenance procedures.

(iv) Report in accordance with Condition 12, a summary of the maintenance records collected under Condition 6.1c(ii).

(v) Operate the EUs 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 3.

(A) For each of EU IDs 5 and 6, measure and record the CO and O_2 concentrations in the exhaust stream using a portable handheld combustion analyzer during or within 30 days after the end of a calendar quarter that the EU operates.[2]

(B) Include copies of the records required by Condition 6.1c(v)(A) for the reporting period, in each operating report required by Condition 12.

d. Report in accordance with Condition 11, whenever

(i) an emissions rate determined by the source test required by Condition 6.1a exceeds the limit in Table 3; or

(ii) any of Conditions 6.1a through 6.1c are not met.

6.2 For EU IDs 1, 5, and 6, the Permittee shall comply with Conditions 16.1 through 16.4 of Construction Permit AQ0110CPT01 Rev. 1, issued March 3, 2006.

7. **Emergency Diesel Engine Emissions Limit.** The Permittee shall limit the emissions form the emergency diesel engine EU ID 7 as specified in Table 4.

Table 4 - EU ID 7 SIP BACT Limit

Pollutant	BACT Control	BACT Emissions Limit
$PM_{2.5}$	Good Combustion Practices Limited Operation Positive Crankcase Ventiliation	0.32 g/hp-hr (3-hour average)

7.1 For EU ID 7, the Permittee shall demonstrate compliance with the $PM_{2.5}$ BACT emissions limit contained in Table 4 as follows:

a. Maintain good combustion practices at all times the EU is in operation.

(i) Perform regular maintenance according to the manufacturer's and the operator's maintenance requirements and procedures.

(ii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept in electronic format.

(iii) Keep a copy of the manufacturer's and the operator's maintenance procedures.

[2] It is not the Department's intention to require the Permittee to start up an EU just to perform the CO and O_2 concentration measurements.

b. Limit the operation of the EU to 52 hours per 12-month rolling period.

(i) Monitor , record, and report as follows:

(A) Maintain and operate a non-resettable hour meter on each engine, capable of recording the total hours of operation.

(B) By the end of each calendar month, record the total operating hours of each EU

(1) for the previous calendar month; and

(2) for the previous 12 consecutive months, as calculated using the records obtained under Condition 7.1b(i)(B)(1).

c. Maintain a positive crankcase ventilation (PCV) system at all times the EU operates in accordance with the manufacturer's and operator's recommended operating and maintenance procedures.

(i) Submit an initial certification that the PCV system listed in Table 4 has been installed or is an inherent design to the EU, in the first operating report due after permit issuance, as required by Condition 12.

d. Report in accordance with Condition 12

(i) a summary of the maintenance records collected under Condition 7.1a(ii); and

(ii) the operating hour records collected under Condition 7.1b(i)(B)(2).

e. Report the compliance status with the $PM_{2.5}$ emissions limit in Table 4 in accordance with each annual compliance certification described in Condition 13.

f. Report in accordance with Condition 11, whenever

(i) an emissions rate exceeds the limit in Table 4; or

(ii) any of Conditions 7.1a through 7.1e are not met.

8. **Boiler Emissions Limit.** The Permittee shall limit the emissions form the boiler EU IDs 11 and 12 as specified in Table 5.

Table 5 - EU IDs 11 and 12 SIP BACT Limits

Pollutant	BACT Control	Fuel Type	BACT Emissons Limit
$PM_{2.5}$	Good Combustion Practices Combust only Propane	Propane	0.008 lb/MMBTU (3-hour average)

8.1 For EU IDs 11 and 12, the Permittee shall demonstrate compliance with the $PM_{2.5}$ BACT emissions limit contained in Table 5 as follows:

a. Maintain good combustion practices at all times the EUs are in operation.

(i) Perform regular maintenance according to the manufacturer's and the operator's maintenance requirements and procedures.

(ii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept in electronic format.

(iii) Keep a copy of the manufacturer's and the operator's maintenance procedures.

b. Combust only gas fuel (propane) with a total sulfur content of no more than 120 ppm by volume.

(i) For each shipment of fuel, keep receipts that specify the fuel sulfur conentration in ppm by volume.

c. Report in accordance with Condition 12

(i) a summary of the maintenance records collected under Condition 8.1a(ii); and

(ii) copies of the fuel receipts collected under Condition 8.1b(i).

d. Report the compliance status with the $PM_{2.5}$ emissions limit in Table 5 in accordance with each annual compliance certification described in Condition 13.

e. Report in accordance with Condition 11, whenever

(i) an emissions rate exceeds the limit in Table 5; or

(ii) any of Conditions 8.1a through 8.1d are not met.

Section 4 Recordkeeping, Reporting, and Certification Requirements

9. **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 emissions 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.

   9.1 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.

10. **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

   10.1 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/.

11. **Excess Emissions and Permit Deviation Reports.** The Permittee shall report excess emissions and permit deviations as follows:

   11.1 **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 after the event commenced or is discovered, 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 emissions 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 11.1d.

d. Report all other excess emissions not described in Conditions 11.1a, 11.1b, and 11.1c 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 12 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.

11.2 **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 12 for permit deviations that occurred during the period covered by the report, whichever is sooner.

11.3 **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 8 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/.

12. **Operating Reports.** During the life of this permit[3], the Permittee shall submit to the Department an operating report in accordance with Conditions 9 and 10 by August 1 for the period January 1 to June 30 of the current year and by February 1 for the period July 1 to December 31 of the previous year.

12.1 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.

12.2 When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 12.1, the Permittee shall identify

a. the date of the excess emissions or permit deviation;

[3] *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.

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

12.3 when excess emissions or permit deviation reports have already been reported under Condition 11 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.

13. **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 9.

13.1 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.

13.2 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

14. 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

    14.1 an enforcement action; or

    14.2 permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280.

15. 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.

16. 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.

17. 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.

18. The permit does not convey any property rights of any sort, nor any exclusive privilege.

19. 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

    19.1 enter upon the premises where an emissions unit subject to this permit is located or where records required by the permit are kept;

    19.2 have access to and copy any records required by this permit;

    19.3 inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and

    19.4 sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.

Section 6 General Source Test Requirements

20. **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.

21. **Operating Conditions.** Unless otherwise specified by an applicable requirement or test method, the Permittee shall conduct source testing

    21.1 at a point or points that characterize the actual discharge into the ambient air; and

    21.2 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.

22. **Reference Test Methods.** The Permittee shall use the following references for test methods when conducting source testing for compliance with this permit:

    22.1 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.

    22.2 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.

    22.3 Source testing for emissions of PM_{10} 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.

    22.4 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.

23. **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).

24. **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.

25. **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 20 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.

26. **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.

27. **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 9. 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 Permit Documentation

Date	Document Details
December 15, 2023	Department sent Golden Valley Electric Association a Notice of Intent to Revoke and Reissue Minor Permit AQ0110MSS01 and AQ0110TVP01 Revision 1.

Section 8 Notification Form[4]

North Pole Power Plant	**AQ0110MSS01 Rev. 1**
Stationary Source Name	**Air Quality Permit Number**

Golden Valley Electric Association (GVEA)
Company Name

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 COBC[5], CO[6], or Settlement Agreement - Complete Section 2 and Certify

[4] Revised as of July 22, 2020.
[5] Compliance Order By Consent
[6] 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
☐Natural Cause (weather/earthquake/flood)
☐Control Equipment Failure
☐Scheduled Maintenance/Equipment Adjustments
☐Bad fuel/coal/gas
☐Upset Condition
☐Other _____

(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
- ☐ Emission Limit Exceeded
- ☐ Flaring
- ☐ Other**:** _____
- ☐ Venting _____(gas/scf)
- ☐ Fugitive Emissions
- ☐ Marine Vessel Opacity

(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 (<u>go to end of form</u>)

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 9.)*

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.

[18 AAC 50.346(b)(3)]