

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AIR QUALITY OPERATING PERMIT

Permit No. AQ0287TVP03

Public Comment - August 13, 2010

Expiration Date: Five Years

The Department of Environmental Conservation, under the authority of AS 46.14 and 18 AAC 50, issues an operating permit to the Permittee, **Copper Valley Electric Association, Inc.**, for the operation of the **Glenallen Diesel Plant**.

This permit satisfies the obligation of the owner and operator to obtain an operating permit as set out in AS 46.14.130(b).

As set out in AS 46.14.120(c), the Permittee shall comply with the terms and conditions of this operating permit.

Citations listed herein are contained within 18 AAC 50 dated July 1, 2010, Register 194. All federal regulation citations are from those sections adopted by reference in this version of regulation in 18 AAC 50.040 unless otherwise specified.

Upon effective date of this permit, Operating Permit No. AQ0287TVP02 expires.

This Operating Permit becomes effective <insert date—30 days after issue date>.

John F. Kuterbach, Manager
Air Permits Program

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List of Abbreviations Used in this Permit

AAC.....	Alaska Administrative Code	NESHAPs.....	Federal National Emission Standards for Hazardous Air Pollutants [NESHAPs as contained in 40 C.F.R. 61 and 63]
ADEC	Alaska Department of Environmental Conservation	NOx.....	Nitrogen Oxides
AS.....	Alaska Statutes	NSPS	Federal New Source Performance Standards [NSPS 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	Boiler Horsepower	PAL	Plantwide Applicability Limitation
C.F.R.	Code of Federal Regulations	PM-10	Particulate Matter less than or equal to a nominal ten microns in diameter
The Act	Clean Air Act	ppm	Parts per million
CI.....	Compression Ignition	ppmv, ppmvd	Parts per million by volume on a dry basis
CO	Carbon Monoxide	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.....	Emission Unit	RICE	Reciprocating internal combustion engine
gr./dscf.....	grain per dry standard cubic foot (1 pound = 7000 grains)	SIC.	Standard Industrial Classification
GPH.....	gallons per hour	SO ₂	Sulfur dioxide
HAPs	Hazardous Air Pollutants [HAPs as defined in AS 46.14.990]	TPH.....	Tons per hour
ID.....	Emission Unit Identification Number	TPY	Tons per year
kPa	kiloPascals	VOC	volatile organic compound [VOC as defined in 40 C.F.R. 51.100(s)]
LAER.....	Lowest Achievable Emission Rate	VOL	volatile organic liquid [VOL as defined in 40 C.F.R. 60.111b, Subpart Kb]
MACT	Maximum Achievable Control Technology [MACT as defined in 40 C.F.R. 63]	vol%	volume percent
MMBtu/hr.....	Million British thermal units per hour	wt%	weight percent
MMSCF.....	Million standard cubic feet		
MR&R.....	Monitoring, Recordkeeping, and Reporting		

Section 1. Stationary Source Information

Identification

Permittee:	Copper Valley Electric Association, Inc. PO Box 45 Glenallen, Alaska, 99588
Stationary Source Name:	Glenallen Diesel Plant
Location:	62° 07' 07" North; 145° 31' 46" West
Physical Address:	Mile 187, Glenn Highway Glenallen, AK 99588
Owner:	Copper Valley Electric Association, Inc. P.O. Box 45 Glenallen, AK 99588
Operator:	Copper Valley Electric Association, Inc. P.O. Box 45 Glenallen, AK 99588
Permittee's Responsible Official:	Robert A. Wilkinson, Chief Executive Officer P.O. Box 45 Glenallen, AK 99588
Designated Agent:	Jamie Linxwiler 510 L Street, #700 Anchorage, AK 99501 (907) 793-2200
Stationary Source and Building Contact:	Aaron Remer, Manager of Power Designation P.O. Box 927 Valdez, AK 99686 (907) 835-7025 remer@cvea.org
Fee Contact:	Aaron Remer, Manager of Power Designation P.O. Box 927 Valdez, AK 99686 (907) 835-7025 remer@cvea.org
Permit Contact:	Aaron Remer, Manager of Power Designation P.O. Box 927 Valdez, AK 99686 (907) 835-7025 remer@cvea.org
Process Description SIC Code:	4911-Electrical Services

[18 AAC 50.040(j)(3) & 50.326(a)]
 [40 C.F.R. 71.5(c)(1 & 2)]

Section 2. Emission Unit Inventory and Description

Emission units listed in Table A have specific monitoring, recordkeeping, or reporting conditions in this permit. Emission unit descriptions and ratings are given for identification purposes only.

Table A - Emission Unit Inventory

EU ID	Emission Unit Name	Emission Unit Description	Rating/Size	Construction Date
3	Diesel Electric Generator Set	Fairbanks Morse Model 38D8 1/8	560 kW	1963
4	Diesel Electric Generator Set	Fairbanks Morse Model 38D8 1/8	600 kW	1966
5	Diesel Electric Generator Set	Fairbanks Morse Model 38D8 1/8	600 kW	1966
6	Diesel Electric Generator Set	DeLaval Enterprise Model DSR46	2620 kW	1976
7	Diesel Electric Generator Set	DeLaval Enterprise Model DSR46	2620 kW	1976
8	Diesel Electric Generator Set	Caterpillar Model 3516B	1285 kW	1999
9	Diesel Electric Generator Set	EMD Model 16-710G4D Engine	2865 kW	2008

[18 AAC 50.326(a)]
 [40 C.F.R. 71.5(c)(3)]

Section 3. State Requirements

Visible Emissions Standards

- 1. Industrial Process and Fuel-Burning Equipment Visible Emissions.** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 3 through 9 listed in Table A to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

[18 AAC 50.040(j), 50.055(a)(1), & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

- 1.1. For EU IDs 6 through 9, monitor, record, and report in accordance with Conditions 2 - 4.
- 1.2. For EU IDs 3 through 5, as long as any unit does not exceed 400 hours per year, monitoring shall consist of an annual compliance certification Condition 47 with the opacity standard.
 - a. If any of EU IDs 3 through 5 exceeds 400 hours per year, the Permittee shall monitor, record, and report for that source(s) in accordance with Conditions 2 through 4.
 - b. To determine if the 400 hour limit has been exceeded, monitor and record the annual operating hours for EU IDs 3 through 5.
 - c. Report the annual operating hours for EU IDs 3 through 5 using the operating report required under Condition 46.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a) (3)]
C.F.R. 71.6(a) (3) & (c) (6)]

Visible Emissions Monitoring, Recordkeeping and Reporting

Liquid Fuel-Fired Emission Units (EU IDs 6 through 9)

- 2. Visible Emissions Monitoring.** The Permittee shall observe the exhaust of EU IDs 6 through 9 for visible emissions using the Method 9 Plan under Condition 2.1.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a) (3) (i)]

- 2.1. **Method 9 Plan.** For all 18-minute observations in this plan, observe exhaust, following 40 C.F.R. 60, Appendix A-4, Method 9, adopted by reference in 18 AAC 50.040(a), for 18 minutes to obtain 72 consecutive 15-second opacity observations.
 - a. First Method 9 Observation. For any unit replaced during the term of this permit, observe exhaust for 18 minutes within 30 days of startup.
 - b. Monthly Method 9 Observations. After the first Method 9 observation, perform 18-minute observations at least once in each calendar month that an emission unit operates.
 - c. Semiannual Method 9 Observations. After observing emissions for three consecutive operating months under Condition 2.1.b, unless a six-minute average is greater than 15 percent and one or more observations are greater than 20 percent, perform 18-minute observations at least semiannually.

Semiannual observations must be taken between four and seven months after the previous set of observations.

- d. Annual Method 9 Observations. After at least two semiannual 18-minute observations, unless a six-minute average is greater than 15 percent and one or more individual observations are greater than 20 percent, perform 18-minute observations at least annually. Annual observations must be taken between 10 and 13 months after the previous observations.
- e. Increased Method 9 Frequency. If a six-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more observations are greater than 20 percent, then increase or maintain the 18-minute observation frequency for that emission unit to at least monthly intervals, until the criteria in Condition 2.1.c for semiannual monitoring are met.

3. Visible Emissions Recordkeeping. The Permittee shall keep records as follows:

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a) (3) (ii)]

3.1. When using the Method 9 Plan of Condition 2.1,

- a. the observer shall record
 - (i) the name of the stationary source, emission unit and location, emission unit type, observer's name and affiliation, and the date on the Visible Emissions Field Data Sheet in Section 12;
 - (ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating rate (load or fuel consumption rate) on the sheet at the time opacity observations are initiated and completed;
 - (iii) the presence or absence of an attached or detached plume and the approximate distance from the emissions outlet to the point in the plume at which the observations are made;
 - (iv) opacity observations to the nearest five percent at 15-second intervals on the Visible Emissions Observation record in Section 12, and
 - (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.
- b. To determine the six-minute average opacity, divide the observations recorded on the record sheet into sets of 24 consecutive observations; sets need not be consecutive in time and in no case shall two sets overlap; for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; record the average opacity on the sheet.
- c. Calculate and record the highest 18-consecutive-minute averages observed.

4. Visible Emissions Reporting. The Permittee shall report visible emissions as follows:

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a) (3) (iii)]

- 4.1. Include in each stationary source operating report under Condition 46, include for the period covered by the report:
- a. which visible-emissions plan of Condition 2 was used for each emission unit; if more than one plan was used, give the time periods covered by each plan;
 - b. for each emission unit under the Method 9 Plan,
 - (i) copies of the observation results (i.e. opacity observations) for each emission unit that used the Method 9 Plan, except for the observations the Permittee has already supplied to the Department; and
 - (ii) a summary to include:
 - (A) number of days observations were made;
 - (B) highest six-minute average observed; and
 - (C) dates when one or more observed six-minute averages were greater than 20 percent;
 - c. a summary of any monitoring or recordkeeping required under Conditions 2 and 3 that was not done;
- 4.2. Report under Condition 45:
- a. the results of Method 9 observations that exceed an average of 20 percent opacity for any six-minute period; and
 - b. if any monitoring under Condition 2 was not performed when required, report within three days of the date the monitoring was required.

Particulate Matter Emissions Standards

- 5. Fuel-Burning Equipment Particulate Matter.** The Permittee shall not cause or allow particulate matter emitted from EU IDs 3 through 9 listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

[18 AAC 50.040(j), 50.055(b) (1) & 50.326(j)]
[40 C.F.R. 71.6(a) (1)]

- 5.1. For EU IDs 6 through 9 monitor, record and report in accordance with Condition 6. For EU IDs 3 through 5 as long as they do not exceed 400 hours per year, monitoring shall consist of an annual compliance certification under Condition 47 with the particulate matter standard.
- a. If any of EU IDs 3 through 5 exceeds 400 hours per year, the Permittee shall monitor, record, and report for that source(s) in accordance with Conditions 6 and 7.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a) (3)]

PM Monitoring, Recordkeeping and Reporting

Liquid Fuel-Fired Engines and Turbines (EU IDs 6 through 9)

6. Particulate Matter Monitoring for Diesel Engines. The Permittee shall conduct source tests on diesel engines, EU IDs 6 through 9, to determine the concentration of particulate matter (PM) in the exhaust of an emission unit in accordance with this Condition 6.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a) (3) (i)]

- 6.1. Except as provided in Condition 6.4 within six months of exceeding the criteria of Conditions 6.2.a or 6.2.b, either
 - a. conduct a PM source test according to requirements set out in Section 6; or
 - b. make repairs so that emissions no longer exceed the criteria of Condition 6.2; to show that emissions are below those criteria, observe emissions as described in Condition 2.1 under load conditions comparable to those when the criteria were exceeded.
- 6.2. Conduct the PM test or make repairs according to Condition 6.1 if
 - a. 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity greater than 20 percent; or
 - b. for an emission unit with an exhaust stack diameter that is less than 18 inches, 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity that is greater than 15 percent and not more than 20 percent, unless the Department has waived this requirement in writing.
- 6.3. During each one-hour PM source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the highest average 6-minute opacity that was measured during each one-hour test run. Submit a copy of these observations with the source test report.
- 6.4. The automatic PM source test requirement in Conditions 6.1 and 6.2 is waived for an emissions unit if a PM source test on that unit has shown compliance with the PM standard during this permit term.

7. Particulate Matter Reporting for Diesel Engines. The Permittee shall report as follows:

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a) (3) (iii)]

- 7.1. Report under Condition 45
 - a. the results of any PM source test that exceeds the PM emissions limit; or
 - b. if one of the criteria of Condition 6.2 was exceeded and the Permittee did not comply with either Condition 6.1.a or 6.1.b, this must be reported by the day following the day compliance with Condition 6.1 was required;
- 7.2. Report observations in excess of the threshold of Condition 6.2.b within 30 days of the end of the month in which the observations occur;
- 7.3. In each operating report under Condition 46, include for the period covered by the report:

- a. the dates, EU ID(s), and results when an observed 18-minute average was greater than an applicable threshold in Condition 6.2;
- b. a summary of the results of any PM testing under Condition 6; and
- c. copies of any visible emissions observation results (opacity observations) greater than the thresholds of Condition 6.2, if they were not already submitted.

Sulfur Compound Emission Standards Requirements

8. Sulfur Compound Emissions. The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from EU IDs 3 through 9 to exceed 500 ppm averaged over three hours. The Permittee shall limit the sulfur content of fuel used at the stationary source to a maximum of 0.5 percent by weight.

[18 AAC 50.040(j), 50.055(c), & 50.326(j)]
[40 C.F.R. 71.6(a) (1)]
[AQC Permit 9822-AC012]

8.1. For EU ID 9, comply with Condition 11.2.

For Fuel Oil¹ (EU IDs 3 through 8)

- 8.2. Beginning May 3, 2013, the Permittee shall comply with these requirements by complying with Condition 13.3.
- 8.3. Until May 2, 2013, the Permittee shall do one of the following for each shipment of fuel:
 - a. If the fuel grade requires a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount; or
 - b. If the fuel grade does not require a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount and
 - (i) test the fuel for sulfur content; or
 - (ii) obtain test results showing the sulfur content of the fuel from the supplier or refinery; the test results must include a statement signed by the supplier or refinery of what fuel they represent.
- 8.4. Fuel testing under Condition 8.3.a must follow an appropriate method listed in 18 AAC 50.035(b)-(c) and 40 C.F.R. 60.17 incorporated by reference in 18 AAC 50.040(a) (1).
- 8.5. If a load of fuel contains greater than 0.75 percent sulfur by weight, the Permittee shall calculate SO₂ emissions in ppm using either Section 13 or Method 19 of 40 C.F.R. 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a).
- 8.6. The Permittee shall report as follows:

¹ *Oil* means crude oil or petroleum or a liquid fuel derived from crude oil or petroleum, including distillate and residual oil, as defined in 40 C.F.R. 60.41b, effective 7/1/07.

- a. If SO₂ emissions calculated under Condition 8.5 exceed 500 ppm, the Permittee shall report under Condition 45. When reporting under this condition, include the calculation under Section 13.
- b. If the fuel sulfur percent by weight exceeds 0.5 percent, the Permittee shall report as excess emissions under Condition
- c. The Permittee shall include in the report required by Condition 46
 - (i) a list of the fuel grades received at the stationary source during the reporting period;
 - (ii) for any grade with a maximum fuel sulfur greater than 0.5 percent sulfur, the fuel sulfur of each shipment; and
 - (iii) for fuel with a sulfur content greater than 0.75 percent, the calculated SO₂ emissions in ppm.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a) (3)]

8.7. Recordkeeping. Keep records of the semiannual statement from the fuel supplier or the sulfur content analysis required under Conditions 8.2 or 8.5.

8.8. Reporting

- a. Report as excess emissions, in accordance with Condition 45, whenever the fuel combusted causes sulfur compound emissions to exceed the standard of Condition 8.
- b. Include copies of the records required by Condition 8.7 with the stationary source operating report required by Condition 46 for the period covered by the report.

[18 AAC 50.040(j) & 50.326(j) (4)]
[40 C.F.R. 71.6(a) (3) & (c) (6)]
[18 AAC 50.040(j), 50.326(j) & 50.346(c)]
[40 C.F.R. 71.6(a) (3)]

Stationary Source-Wide Specific Requirements

Insignificant Emission Units

9. For emission units at the stationary source that are insignificant as defined in 18 AAC 50.326(d)-(i) that are not listed in this permit, the following apply:

9.1. The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from an industrial process, fuel-burning equipment, or an incinerator to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

[18 AAC 50.050(a) & 50.055(a) (1)]

9.2. The Permittee shall not cause or allow particulate matter emitted from an industrial process or fuel-burning equipment to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

[18 AAC 50.055(b)(1)]

9.3. The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

[18 AAC 50.055(c)]

9.4. General MR&R for Insignificant Emission Units

- a. The Permittee shall submit the compliance certifications of Condition 47 based on reasonable inquiry for Condition 9;
- b. The Permittee shall comply with the requirements of Condition 25;
- c. The Permittee shall report in the operating report required by Condition 46 if an emission unit is insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) and actual emissions become greater than any of those thresholds; and
- d. No other monitoring, recordkeeping or reporting is required.

[18 AAC 50.346(b)(4)]

Section 4. Federal Requirements

Compression Ignition CI ICE Subject to NSPS Subpart A

10. Applicability of General Provisions, NSPS Subpart A. The Permittee shall comply with the General Provisions of 40 CFR 60.1 through 60.19 as applicable in Table 8 of 40 CFR 60.4218.

[18 AAC 50.040(a)(1)]
 [40 C.F.R. 60.11, Subpart A]
 [40 C.F.R. 60.12, Subpart A]

Compression Ignition CI ICE Subject to NSPS Subpart III

11. NSPS Subpart III Requirements. For EU ID 9, the Permittee shall comply with the applicable requirements listed below for stationary compression ignition (CI) internal combustion engines (ICE) that commence construction² after July 11, 2005 and manufactured after April 1, 2006.

[18 AAC 50.040(a)(2)]
 [40 C.F.R. 60.42, Subpart III]

11.1. Emissions Standards. As an owner or operator of a 2007 year and later stationary CI internal combustion engine, the Permittee must comply with the emission standards in 40 CFR 60.4201(d) and 40 CFR 94.8 as applicable and listed in Table 2.

[18 AAC 50.040(a)(2)]
 [40 C.F.R. 60.4204(b), Subpart III]

Table 2- Emissions Standard for CI ICE³

Engine Size liters/cylinder, rated power	Emission standards for 2007 year and later engines with a displacement of less than 30 liters/cylinder in g/kW-hr		
	THC ⁴ + NO _x	CO	PM
5.0 ≤ disp. < 15.0 all power levels	7.8	5.0	0.27

11.2. Fuel Requirements. Comply with the diesel fuel requirements in 40 CFR 60.4207(a), effective beginning October 2007, and comply with 40 CFR 60. 4207(b), effective beginning October 1, 2010.

[18 AAC 50.040(a)(2)]
 [40 C.F.R. 60.4207(a) & (b), Subpart III]

11.3. Compliance Requirements.

- a. Operate and maintain the stationary CI ICE according to the manufacturer’s written instruction or procedures developed by the Permittee that are approved by the engine manufacturer and may change those settings only when permitted by the manufacturer.

² The date that construction commences is the date the engine is ordered by the Permittee.

³ From Table A-1 of 40 CFR 94.8

⁴ THC is the total hydrocarbons.

- b. Comply with 60.4211(c) by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
- c. Notification, Reporting, and Records, 40 CFR 60.4214: Keep records of the information as required under 40 CFR 60.4214(a)(2)(i)-(iv) and listed as follows:
 - (i) All notification submitted to comply with this subpart and all documentation supporting any notification;
 - (ii) Maintenance conducted on the engine;
 - (iii) If the stationary CI ICE engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emissions standards
 - (iv) If the stationary CI ICE is not a certified engine, documentation that the engine meets the emission standards.
- d. The Permittee shall include in the operating report required in Condition 46 for each shipment of fuel one of the following in order to show compliance with Condition 11.2:
 - (i) Supplier receipts including the fuel grades and specifications; or
 - (ii) An analysis of a fuel sample.

[18 AAC 50.040(a)(2)]
[40 CFR 60.4211(a), Subpart III]

Emission Units/Stationary Sources Subject to Federal National Emission Standards for Hazardous Air Pollutants (NESHAPs)

For Non-emergency, Non-black start CI RICE Engines, EU IDs 3 through 8

12. NESHAP Subpart A. The Permittee shall comply with the applicable requirements of 40 CFR Subpart A in accordance with the provisions for applicability of Subpart A in Subpart ZZZZ Table 8.

[18 AAC 50.040(c)(1)]
[40 C.F.R. 63.6665, Subpart ZZZZ]

13. NESHAP Subpart ZZZZ Stationary Reciprocating Internal Combustion Engines. The Permittee shall comply with the applicable emission limitations and operating limitations no later than May 13, 2013 as specified below

[18 AAC 50.040(c)(23)]
[40 C.F.R. 63.6595, Subpart ZZZZ]

13.1. Emissions Limitations:

- a. Except for during periods of startup, , EU IDs 3 through 8 must limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O₂; or
 - (i) Reduce CO emissions by 70 percent or more.
 - (ii) Monitor according to Condition 13.4.
- b. For EU ID 9, comply with Condition 11.

[18 AAC 50.040(c)(23)]

[40 C.F.R. 63.6603, Subpart ZZZZ]

13.2. Operating Limitations

a. For EU IDs with an oxidation catalyst:

- (i) Maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and
- (ii) Maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.

b. For EU IDs without an oxidation catalyst

- (i) Comply with any operating limitations approved by the Administrator.

[18 AAC 50.040(c)(23)]
[40 C.F.R. 63.6603, Subpart ZZZZ]

c. For EU IDs not equipped with a closed crankcase ventilation system, comply with either of the following:

- (i) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted into the atmosphere, or
- (ii) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.

d. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[18 AAC 50.040(c)(23)]
[40 C.F.R. 63.6625, Subpart ZZZZ]

e. At all times the Permittee shall operate and maintain EU IDs 3 through 8 including any associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

[18 AAC 50.040(c)(23)]
[40 C.F.R. 63.6605, Subpart ZZZZ]

13.3. Fuel Requirements

a. All diesel fuel burned in EU IDs 3 through 8 must meet the requirements of 40 C.F.R. 80.510(b) for nonroad diesel fuel⁵.

- (i) The Permittee shall not burn any diesel fuel with a fuel sulfur content greater than 15 ppm.

b. Keep records of the information in Condition 13.3.a in accordance with Condition 41.

c. Monitor, record, and report for Condition 13.3.a(i) according to Condition 8.

[18 AAC 50.040(c)(23) & 18 AAC 50.040(j) & 50.326(j)(4)]
[40 C.F.R. 80.510; and 40 C.F.R. 63.6604, Subpart ZZZZ]

⁵ The compliance date is June 1,2010, however the Subpart compliance date is May 3,2013.

13.4. Monitoring- Monitor compliance with the standards listed in Condition 13.1 as follows:

0[18 AAC 50.040(c)(23)]
[40 C.F.R. 63.6612, Subpart ZZZZ]

- a. Conduct initial performance tests according to procedures specified in 40 CFR 63.6620 on EU IDs 3 through 8 within 180 days after the compliance date of May 3, 2013.

[40 C.F.R. 63.6612, Subpart ZZZZ]

- b. Conduct subsequent performance tests on EU IDs 3 through 8 every 8,760 hours of operation or 3 years, whichever comes first.

[40 C.F.R. 63.6615, Subpart ZZZZ]

- c. Report the hours of operation since the most recent source test for each of EU IDs 3 through 8 in the operating report required by Condition 46.

[18 AAC 50.040(j) & 50.326(j)(4)]
[40 C.F.R. 71.6(a)(3)(i)(B)]

13.5. Recordkeeping - Keep records as required by §63.6655 for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

[18 AAC 50.040(c)(23)]
[40 C.F.R. 63.6655, Subpart ZZZZ]

13.6. Reporting- Submit semiannual compliance reports and annual operating reports to U.S. Environmental Protection Agency (EPA) Region 10 and the Department according to §63.6650:

[18 AAC 50.040(c)(23) & 50.326(j)]
[40 C.F.R. 63.6605, Subpart ZZZZ]

- a. Report under Condition 45 any deviation from any operating limitation during the reporting period in addition to reporting under 40 CFR 63.6650.

[18 AAC 50.040(c)(23) & 50.326(j)]
[40 C.F.R. 63.6605, Subpart ZZZZ]

Section 5. PSD Major Stationary Source Classification Avoidance Requirements

14. PSD Avoidance Limits. Limit NO_x emissions from EU IDs 3 through 9 listed in Table 1 to no greater than 240 tons per 12 consecutive months.

- 14.1. Continuously monitor the operation of EU IDs 3 through 9 using a kilowatt-hour (kW-hr) meter for each unit.
- 14.2. No later than the end of each calendar month calculate the total NO_x emissions from EU IDs 3 through 9 for the previous month, based on the operation of each unit (kW-hr) during that month and the following emission factors (lb/kW-hr):
 - a. EU IDs 3 through 8- 0.032 lb/kW-hr, and
 - b. EU ID 9- 0.0216 lb/kW-hr.
- 14.3. No later than the end of each calendar month, calculate the total NO_x emissions from EU IDs 3 through 9 for the 12 month rolling period ending with the previous month, based on the monthly emissions calculated under the Condition 14.2.
- 14.4. Include the records and calculations required under Conditions 14.2 and 14.3 in the operating report required by Condition 46.
- 14.5. If the 12 month rolling total NO_x emissions in Condition 14.3 exceeds 240 tons, report as excess emission as described in Condition 45.
- 14.6. If the 12 month rolling total NO_x emissions in Condition 14.3 exceed 225 tons, then within 180 days of discovery, conduct a source test to verify the NO_x emissions rate for EU ID 9.
 - a. Conduct the source test at four loads in the operating range of the units, including the minimum and maximum operating loads of the unit. Monitor and record the fuel consumption and average load during each test. List the average operating parameters for each run in the source test result.
 - b. From each test, determine the NO_x emission factor using exhaust properties determined by either Method 19 or method 1-4, for each load. If using method 19, then use the higher heating value throughout the analysis.
 - c. Within 45 days of the source test conducted in Condition 14.6.a, calculate the 12 month rolling NO_x emissions for the stationary source. Use the worst-case emission factor at worst case operation based on results of the source tests for EU ID 9.
 - d. Report in the first operating report due after the source test, the source test results and 12 month operating rolling NO_x emissions.
 - e. After completion of the NO_x emission source test for EU ID 9, determine stationary source PTE by summing the PTE for each emission unit. Attach the PTE calculations and results to the first stationary source operating report due after completion of NO_x emission source tests.

Section 6. General Conditions

Standard Terms and Conditions

15. 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.

[18 AAC 50.326(j)(3), 50.345(a) & (e)]

16. The permit may be modified, reopened, revoked and reissued, or terminated for cause. A request by the Permittee for modification, revocation and re-issuance, or termination or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[18 AAC 50.326(j)(3), 50.345(a) & (f)]

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

[18 AAC 50.326(j)(3), 50.345(a) & (g)]

18. Administration Fees. The Permittee shall pay to the Department all assessed permit administration fees. Administration fee rates are set out in 18 AAC 50.400-405.

[18 AAC 50.326(j)(1), 50.400, 50.403, & 50.405]
[AS 37.10.052(b), 11/04; AS 46.14.240, 6/7/03]

19. Assessable Emissions. 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 assessable emission fee rate is set out in 18 AAC 50.410(b). The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit in quantities greater than 10 tons per year. The quantity for which fees will be assessed is the lesser of

19.1. the stationary source's assessable potential to emit of 367 TPY; or

19.2. the stationary source's projected annual rate of emissions that will occur from July 1 to the following June 30, based upon actual annual emissions emitted during the most recent calendar year or another 12-month period approved in writing by the Department, when demonstrated by

- 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.

[18 AAC 50.040(j)(3), 50.035, 50.326(j)(1), 50.346(b)(1), 50.410, & 50.420]
[40 C.F.R. 71.5(c)(3)(ii)]

20. Assessable Emission Estimates. Emission fees will be assessed as follows:

20.1. no later than March 31 of each year, the Permittee may submit an estimate of the stationary source's assessable emissions to ADEC, Air Permits Program, ATTN: Assessable Emissions Estimate, 410 Willoughby Ave., Suite 303, Juneau, AK 99811-1800; the submittal must include all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates; or

20.2. if no estimate 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 19.1.

[18 AAC 50.040(j)(3), 50.326(j)(1), 50.346(b)(1), 50.410, & 50.420]
[40 C.F.R. 71.5(c)(3)(ii)]

21. Good Air Pollution Control Practice. Except as noted in Condition 21.4, the Permittee shall do the following for EU IDs 3 through 8:

21.1. perform regular maintenance considering the manufacturer's or the operator's maintenance procedures;

21.2. keep records of any maintenance that would have a significant effect on emissions; the records may be kept in electronic format; and

21.3. keep a copy of either the manufacturer's or the operator's maintenance procedures.

21.4. EU IDs 3 through 8 are subject to this condition only until the applicable compliance date as set forth in Condition 13.

[18 AAC 50.030, 50.326(j)(3), & 50.346(b)(5)]

22. Dilution. The Permittee shall not dilute emissions with air to comply with this permit. Monitoring shall consist of an annual certification that the Permittee does not dilute emissions to comply with this permit.

[18 AAC 50.045(a)]

23. Reasonable Precautions to Prevent Fugitive Dust. A person who causes or permits bulk materials to be handled, transported, or stored, or who engages in an industrial activity or construction project shall take reasonable precautions to prevent particulate matter from being emitted into the ambient air.

[18 AAC 50.045(d), 50.040(e), 50.326(j)(3), & 50.346(c)]

23.1. The Permittee shall keep records of

a. complaints received by the Permittee and complaints received by the Department and conveyed to the Permittee; and

b. any additional precautions that are taken

(i) to address complaints described in Condition 23.1 or to address the results of Department inspections that found potential problems; and

(ii) to prevent future dust problems.

23.2. The Permittee shall report according to Condition 25.

24. Stack Injection. The Permittee shall not release materials other than process emissions, products of combustion, or materials introduced to control pollutant emissions from a stack at a source constructed or modified after November 1, 1982, except as authorized by a construction permit, Title V permit, or air quality control permit issued before October 1, 2004.

[18 AAC 50.055(g)]

25. Air Pollution Prohibited. No person may permit any emission which is injurious to human health or welfare, animal or plant life, or property, or which would unreasonably interfere with the enjoyment of life or property.

[18 AAC 50.110, 50.040(e), 50.326(j)(3), & 50.346(a)]
[40 C.F.R. 71.6(a)(3)]

25.1. Monitoring, Recordkeeping, and Reporting for Air Pollution Prohibited

- a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 45.
- b. As soon as practicable after becoming aware of a complaint that is attributable to emissions from the stationary source, the Permittee shall investigate the complaint to identify emissions that the Permittee believes have caused or are causing a violation of Condition 25.

25.2. The Permittee shall initiate and complete corrective action necessary to eliminate any violation identified by a complaint or investigation as soon as practicable if

- a. after an investigation because of a complaint or other reason, the Permittee believes that emissions from the stationary source have caused or are causing a violation of Condition 25; or
- b. the Department notifies the Permittee that it has found a violation of Condition 25.

25.3. The Permittee shall keep records of

- a. the date, time, and nature of all emissions complaints received;
- b. the name of the person or persons that complained, if known;
- c. a summary of any investigation, including reasons the Permittee does or does not believe the emissions have caused a violation of Condition 25; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

25.4. With each stationary source operating report under Condition 46, the Permittee shall include a brief summary report which must include

- a. the number of complaints received;
- b. the number of times the Permittee or the Department found corrective action necessary;
- c. the number of times action was taken on a complaint within 24 hours; and
- d. the status of corrective actions the Permittee or Department found necessary that were not taken within 24 hours.

25.5. The Permittee shall notify the Department of a complaint that is attributable to emissions from the stationary source within 24 hours after receiving the complaint, unless the Permittee has initiated corrective action within 24 hours of receiving the complaint.

26. Technology-Based Emission Standard. If an unavoidable emergency, malfunction, or non-routine repair, as defined in 18 AAC 50.235(d), causes emissions in excess of a technology-based emission standard⁶ listed in Condition 28 the Permittee shall take all reasonable steps to minimize levels of emissions that exceed the standard. Excess emissions reporting under Condition 45 requires information on the steps taken to minimize emissions. Monitoring of compliance for this condition consists of the report required under Condition 45.

[18 AAC 50.235(a), 50.326(j)(4), & 50.040(j)(4)]
[40 C.F.R. 71.6(c)(6)]

27. Asbestos NESHAP. The Permittee shall comply with the requirements set forth in 40 C.F.R. 61.145, 61.150, and 61.152 of Subpart M, and the applicable sections set forth in 40 C.F.R. 61, Subpart A and Appendix A.

[18 AAC 50.040(b)(1) & (2)(F), & 50.326(j)]
[40 C.F.R. 61, Subparts A & M, and Appendix A]

28. Refrigerant Recycling and Disposal. The Permittee shall comply with the standards for recycling and emission reduction of refrigerants set forth in 40 C.F.R. 82, Subpart F.

[18 AAC 50.040(d) & 50.326(j)]
[40 C.F.R. 82, Subpart F]

NESHAPs Applicability Determinations

29. The Permittee shall determine rule applicability and designation of affected sources under National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Source Categories (40 C.F.R. 63) in accordance with the procedures described in 40 C.F.R. 63.1(b) and 63.10(b)(3). If a source becomes affected by an applicable subpart of 40 C.F.R. 63, the Permittee shall comply with such standard by the compliance date established by the Administrator in the applicable subpart, in accordance with 40 C.F.R. 63.6(c).

29.1. After the effective date of any relevant standard promulgated by the Administrator under this part, an owner or operator who constructs a new affected source that is not major-emitting or reconstructs an affected source that is not major-emitting that is subject to such standard, or reconstructs a source such that the source becomes an affected source subject to the standard, must notify the Administrator and the Department of the intended construction or reconstruction. The notification must be submitted in accordance with the procedures in §63.9(b).

[18 AAC 50.040(c)(1), 50.040(j), & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(ii)]
[40 C.F.R. 63.1(b), 63.5(b)(4), 63.6(c)(1), & 63.10(b)(3)]

Open Burning Requirements

30. Open Burning. If the Permittee conducts open burning at this stationary source, the Permittee shall comply with the requirements of 18 AAC 50.065.

⁶ *Technology-based emission standard* means a best available control technology standard (BACT); a lowest achievable emission rate standard (LAER); a maximum achievable control technology standard established under 40 C.F.R. 63, Subpart B, adopted by reference in 18 AAC 50.040(c); a standard adopted by reference in 18 AAC 50.040(a) or (c); and any other similar standard for which the stringency of the standard is based on determinations of what is technologically feasible, considering relevant factors.

- 30.1. The Permittee shall keep written records to demonstrate that the Permittee complies with the limitations in this condition and the requirements of 18 AAC 50.065. Upon request by the Department, submit copies of the records.
- 30.2. Compliance with this condition shall be an annual certification conducted under Condition 47.
[18 AAC 50.065, 50.040(j), & 50.326(j)]
[40 C.F.R. 71.6(a)(3)]

Section 7. General Source Testing And Monitoring Requirements

31. Requested Source Tests. In addition to any source testing explicitly required by the permit, the Permittee shall conduct source testing as requested by the Department to determine compliance with applicable permit requirements.

[18 AAC 50.220(a) & 50.345(a) & (k)]

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

[18 AAC 50.220(b)]

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

32.2. at the maximum rated burning or operating capacity of the emission unit or another rate determined by the Department to characterize the actual discharge into the ambient air.

33. Reference Test Methods. The Permittee shall use the following as reference test methods when conducting source testing for compliance with this permit:

33.1. Source testing for compliance with requirements adopted by reference in 18 AAC 50.040(a) must be conducted in accordance with the methods and procedures specified in 40 C.F.R. 60.

[18 AAC 50.220(c)(1)(A) & 50.040(a)]
[40 C.F.R. 60]

33.2. Source testing for the reduction in visibility through the exhaust effluent must be conducted in accordance with the procedures set out in Reference Method 9 and may use the form in Section 12 to record data.

[18 AAC 50.030 & 50.220(c)(1)(D)]

33.3. 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.

[18 AAC 50.040(a)(3) & 50.220(c)(1)(E)]
[40 C.F.R. 60, Appendix A]

33.4. Source testing for emissions of PM-10 must be conducted in accordance with the procedures specified in 40 C.F.R. 51, Appendix M, Methods 201 or 201A and 202.

[18 AAC 50.035(b)(2) & 50.220(c)(1)(F)]
[40 C.F.R. 51, Appendix M]

33.5. Source testing for emissions of any pollutant may be determined using an alternative method approved by the Department in accordance with 40 C.F.R. 63 Appendix A, Method 301.

[18 AAC 50.040(c)(24) & 50.220(c)(2)]
[40 C.F.R. 63, Appendix A, Method 301]

34. 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 emission unit type, corrected to standard conditions (dry gas at 68° F and an absolute pressure of 760 millimeters of mercury).

[18 AAC 50.220(c)(3) & 50.990(102)]

35. Test Exemption. The Permittee is not required to comply with Conditions 37, 38 and 39 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.1)

[18 AAC 50.345(a)]

36. 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.

[18 AAC 50.345(a) & (l)]

37. Test Plans. Except as provided in Condition 35, 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 emission 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 31 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 performed without resubmitting the plan.

[18 AAC 50.345(a) & (m)]

38. Test Notification. Except as provided in Condition 35, at least 10 days before conducting a source test, the Permittee shall give the Department written notice of the date and the time the source test will begin.

[18 AAC 50.345(a) & (n)]

39. Test Reports. Except as provided in Condition 35, within 60 days after completing a source test, the Permittee shall submit two copies 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 additionally certify the results in the manner set out in Condition 42. If requested in writing by the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.

[18 AAC 50.345(a) & (o)]

40. Particulate Matter Calculations. In source testing for compliance with the particulate matter standards in Conditions 5 and 9.2, the three-hour average is determined using the average of three one-hour test runs. The source testing must account for those emissions caused by soot blowing, grate cleaning, or other routine maintenance activities by ensuring that at least one test run includes the emissions caused by the routine maintenance activity and is conducted under conditions that lead to representative emissions from that activity. The emissions must be quantified using the following equation:

$$E = E_M \left[(A+B) \times \frac{S}{R \times A} \right] + E_{NM} \left[\frac{R-S}{R} - B \times \frac{S}{R \times S} \right]$$

Where:

E = the total PM emissions of the emission unit in grains per dry standard cubic foot ((gr.)/dscf)

E_M = the PM emissions in (gr.)/dscf measured during the test that included the routine maintenance activity

E_{NM} = the arithmetic average of PM emissions in (gr.)/dscf measured during the test runs that did not include the maintenance activity

- A = the period of routine maintenance activity occurring during the test run that included routine maintenance activity, expressed to the nearest hundredth of an hour
- B = the total period of the test run, less A
- R = the maximum period of emission unit operation per 24 hours, expressed to the nearest hundredth of an hour
- S = the maximum period of routine maintenance activity per 24 hours, expressed to the nearest hundredth of an hour

[18 AAC 50.220(f)]

Section 8. General Recordkeeping and Reporting Requirements

Recordkeeping Requirements

41. Recordkeeping Requirements. The Permittee shall keep all records required by this permit for at least five years after the date of collection, including:

[18 AAC 50.326(j)]
[40 C.F.R 60.7(f), Subpart A]
[40 C.F.R 71.6(a)(3)(ii)(B)]

- 41.1. copies of all reports and certifications submitted pursuant to this section of the permit; and
- 41.2. 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

42. 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.

- 42.1. The Department may accept an electronic signature on an electronic application or other electronic record required by the Department if
 - a. a certifying authority registered under AS 09.25.510 verifies that the electronic signature is authentic; and
 - b. the person providing the electronic signature has made an agreement, with the certifying authority described in Condition 42.1.a, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature.

[18 AAC 50.345(a) & (j), 50.205, & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(iii)(A)]

43. Submittals. Unless otherwise directed by the Department or this permit, the Permittee shall send an original and one copy of reports, compliance certifications, and other submittals required by this permit to ADEC, Air Permits Program, 610 University Ave., Fairbanks, AK 99709-3643, ATTN: Compliance Technician. The Permittee may, upon consultation with the Compliance Technician regarding software compatibility, provide electronic copies of data reports, emission source test reports, or other records under a cover letter certified in accordance with Condition 42.

[18 AAC 50.326(j)]
[40 C.F.R. 71.6(a)(3)(iii)(A)]

44. 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 and 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.

[18 AAC 50.345(a) & (i), 50.200, & 50.326(a) & (j)]
[40 C.F.R. 71.5(a)(2) & 71.6(a)(3)]

45. Excess Emissions and Permit Deviation Reports.

45.1. Except as provided in Condition 25, the Permittee shall report all emissions or operations that exceed or deviate from the requirements 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) 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. report all other excess emissions and permit deviations
 - (i) within 30 days of the end of the month in which the emissions or deviation occurs, except as provided in Conditions 45.1.c(ii) and 45.1.c(iii);
 - (ii) if a continuous or recurring excess emissions is not corrected within 48 hours of discovery, within 72 hours of discovery unless the Department provides written permission to report under Condition 45.1.c(i); and
 - (iii) for failure to monitor, as required in other applicable conditions of this permit.

45.2. When reporting excess emissions or permit deviations, the Permittee must report using either the Department's on-line form, which can be found at <http://www.dec.state.ak.us/air/ap/site.htm> or <https://myalaska.state.ak.us/deca/air/airtoolsweb/>, or if the Permittee prefers, the form contained in Section 14 of this permit. The Permittee must provide all information called for by the form that is used.

- 45.3. If requested by the Department, the Permittee shall provide a more detailed written report as requested to follow up an excess emissions report.

[18 AAC 50.235(a)(2), 50.240(c), 50.326(j)(3), & 50.346(b)(2) & (3)]

46. Operating Reports. During the life of this permit⁷, the Permittee shall submit to the Department an original and one copy of an operating report 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.

- 46.1. The operating report must include all information required to be in operating reports by other conditions of this permit.

- 46.2. If excess emissions or permit deviations that occurred during the reporting period are not reported under Condition 46.1, either

- a. The Permittee shall identify

(i) the date of the deviation;

(ii) the equipment involved;

(iii) the permit condition affected;

(iv) a description of the excess emissions or permit deviation; and

(v) any corrective action or preventive measures taken and the date of such actions; or

- b. When excess emissions or permit deviations have already been reported under Condition 45 the Permittee shall cite the date or dates of those reports.

- 46.3. The operating report must include a listing of emissions monitored under Conditions 2.1.e, which trigger additional testing or monitoring, whether or not the emissions monitored exceed an emission standard. The Permittee shall include in the report.

- a. the date of the emissions;

- b. the equipment involved;

- c. the permit condition affected; and

- d. the monitoring result which triggered the additional monitoring.

- 46.4. **Transition from expired to renewed permit.** For the first period of this renewed operating permit, also provide the previous permit's facility operating report elements covering that partial period immediately preceding the effective date of this renewed permit.

[18 AAC 50.346(a) & 50.326(j)]

[40 C.F.R. 71.6(a)(3)(iii)(A)]

47. Annual Compliance Certification. Each year by March 31, the Permittee shall compile and submit to the Department an original and one copy of an annual compliance certification report⁸.

⁷ *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.

⁸ See Condition 47.2 for clarification on the number of reports required.

- 47.1. 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 3 through Section 10, 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;
- 47.2. **Transition from expired to renewed permit.** For the first period of this renewed operating permit, also provide the previous permit's annual compliance certification report elements covering that partial period immediately preceding the effective date of this renewed permit.
- 47.3. In addition, submit a copy of the report directly to the EPA-Region 10, Office of Air Quality, M/S OAQ-107, 1200 Sixth Avenue, Seattle, WA 98101.

[18 AAC 50.205, 50.345(a) & (j), & 50.326(j)]
[40 C.F.R. 71.6(c)(5)]

48. NSPS and NESHAP Reports. The Permittee shall:

- 48.1. attach to the operating report required by Condition 46, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10; and
- 48.2. upon request by the Department, provide a written copy of any EPA-granted alternative monitoring requirement, custom monitoring schedule or waiver of the federal emission standards, recordkeeping, monitoring, performance testing, or reporting requirements.

[18 AAC 50.326(j)(4) & 50.040(j)]
[40 C.F.R. 60.13]
[40 C.F.R. 71.6(c)(6)]

Section 9. Permit Changes and Renewal

49. Permit Applications and Submittals. The Permittee shall comply with the following requirements for submitting application information to the EPA Region 10:

- 49.1. The Permittee shall provide a copy of each application for modification or renewal of this permit, including any compliance plan, or application addenda, at the time the application or addendum is submitted to the Department⁹;
- 49.2. The information shall be submitted to the same address as in Condition 47.3.
- 49.3. To the extent practicable, the Permittee shall provide to EPA applications in portable document format (PDF); MS Word format (.doc); or other computer-readable format compatible with EPA's national database management system; and
- 49.4. The Permittee shall maintain records as necessary to demonstrate compliance with this condition.

[18 AAC 50.040(j)(7) & 50.326(b)]
[40 C.F.R. 71.10(d)(1)]

50. Emissions Trading. No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in the permit.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(8)]

51. Off Permit Changes. The Permittee may make changes that are not addressed or prohibited by this permit other than those subject to the requirements of 40 C.F.R. Part 72 through 78 or those that are modifications under any provision of Title I of the Act to be made without a permit revision, provided that the following requirements are met:

- 51.1. Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;
- 51.2. Provide contemporaneous written notice to EPA and the Department of each such change, except for changes that qualify as insignificant under 18 AAC 50.326(d) – (i). Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change;
- 51.3. The change shall not qualify for the shield under 40 C.F.R. 71.6(f);
- 51.4. The Permittee shall keep a record describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(12)]

⁹ The documents required in Condition 49.1 are submitted to the Department's Anchorage office. The current address for the Anchorage office is: ADEC, 619 East Ship Creek, Suite 249, Anchorage, AK 99501.

52. Operational Flexibility. The Permittee may make changes within the permitted stationary source without requiring a permit revision if the changes are not modifications under any provision of Title I of the Act and the changes do not exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions):

- 52.1. The Permittee shall provide EPA and the Department with a notification no less than 7 days in advance of the proposed change.
- 52.2. For each such change, the written notification required above shall include a brief description of the change within the permitted stationary source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
- 52.3. The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 52.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(13)]

53. Permit Renewal. To renew this permit, the Permittee shall submit an application under 18 AAC 50.326 no sooner than [*18 months before*] and no later than [*6 months before*] the expiration date of this permit. The renewal application shall be complete before the permit expiration date listed on the cover page of this permit. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 40 C.F.R. 71.7(b) and 71.5(a)(1)(iii).

[18 AAC 50.040(j)(3), 50.326(c)(2) & (j)(2)]
[40 C.F.R. 71.5(a)(1)(iii) & 71.7(b) & (c)(1)(ii)]

Section 10. Compliance Requirements

General Compliance Requirements

54. Compliance with permit terms and conditions is considered to be compliance with those requirements that are

- 54.1. included and specifically identified in the permit; or
- 54.2. determined in writing in the permit to be inapplicable.

[18 AAC 50.326(j)(3) & 50.345(a) & (b)]

55. The Permittee must comply with each permit term and condition.

- 55.1. For applicable requirements with which the stationary source is in compliance, the Permittee will continue to comply with such requirements.
- 55.2. Noncompliance with a permit term or condition constitutes a violation of AS 46.14.120(c), 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:
 - a. an enforcement action;
 - b. permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or
 - c. denial of an operating permit renewal application.

[18 AAC 50.040(j), 326(j) & 50.345(a) & (c)]
[40 C.F.R. 71.6(c)(3) & 71.5(c)(8)(iii)(A)]

56. 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 AAC 50.326(j)(3) & 50.345(a) & (d)]

57. 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

- 57.1. enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;
- 57.2. have access to and copy any records required by the permit;
- 57.3. inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
- 57.4. sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.

[18 AAC 50.326(j)(3) & 50.345(a) & (h)]

Compliance Schedule

58. For applicable requirements that will become effective during the permit term, the Permittee shall meet such requirements on a timely basis.

[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(c)(3) & 71.5(c)(8)(iii)(B)]

Section 11. Permit As Shield from Inapplicable Requirements

In accordance with AS 46.14.290, and based on information supplied in the permit application, this section of the permit contains the requirements determined by the Department not to be applicable to the stationary source.

59. Nothing in this permit shall alter or affect the following:

- 59.1. The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section; or
- 59.2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.

[18 AAC 50.326(j)]
 [40 C.F.R. 71.6(f)(3)(i) & (ii)]

60. Table B identifies the emission units that are not subject to the specified requirements at the time of permit issuance. If any of the requirements listed in Table B becomes applicable during the permit term, the Permittee shall comply with such requirements on a timely basis including, but not limited to, providing appropriate notification to EPA, obtaining a construction permit and/or an operating permit revision.

[18 AAC 50.326(j)]
 [40 C.F.R. 71.6(f)(1)(ii)]

Table B - Permit Shields Granted

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
3-8	40 CFR 60 Subpart IIII	The RICE, EU IDs 3-8, were all manufactured before April 1, 2006 and have not been modified or reconstructed after July 11, 2005. This shield is applicable until a unit is modified, reconstructed or replaced.

[18 AAC 50.326(j)]
 [40 C.F.R. 71.6(f)(1)(ii)]

Section 12. Visible Emissions Forms

VISIBLE EMISSION OBSERVATION FORM

This form is designed to be used in conjunction with EPA Method 9, "Visual Determination of the Opacity of Emissions from Stationary Sources." Temporal changes in emission color, plume water droplet content, background color, sky conditions, observer position, etc. should be noted in the comments section adjacent to each minute of readings. Any information not dealt with elsewhere on the form should be noted under additional information. Following are brief descriptions of the type of information that needs to be entered on the form: for a more detailed discussion of each part of the form, refer to "Instructions for Use of Visible Emission Observation Form."

- Source Name: full company name, parent company or division or subsidiary information, if necessary.
- Address: street (not mailing or home office) address of facility where VE observation is being made.
Phone (Key Contact): number for appropriate contact.
Source ID Number: number from NEDS, agency file, etc.
- Process Equipment, Operating Mode: brief description of process equipment (include type of facility) and operating rate, % capacity, and/or mode (e.g. charging, tapping, shutdown).
- Control Equipment, Operating Mode: specify type of control device(s) and % utilization, control efficiency.
- Describe Emission Point: for identification purposes, stack or emission point appearance, location, and geometry; and whether emissions are confined (have a specifically designed outlet) or unconfined (fugitive).
- Height Above Ground Level: stack or emission point height relative to ground level; can use engineering drawings, Abney level, or clinometer.
- Height Relative to Observer: indicate height of emission point relative to the observation point.
- Distance from Observer: distance to emission point; can use rangefinder or map.
- Direction from Observer: direction plume is traveling from observer.
- Describe Emissions and Color: include physical characteristics, plume behavior (e.g., looping, lacy, condensing, fumigating, secondary particle formation, distance plume visible, etc.), and color of emissions (gray, brown, white, red, black, etc.). Note color changes in comments section.
- Visible Water Vapor Present?: check "yes" if visible water vapor is present.
- If Present, is Plume...: check "attached" if water droplet plume forms prior to exiting stack, and "detached" if water droplet plume forms after exiting stack.
- Point in Plume at Which Opacity was Determined: describe physical location in plume where readings were made (e.g., 1 ft above stack exit or 10 ft. after dissipation of water plume).
- Describe Plume Background: object plume is read against, include texture and atmospheric conditions (e.g., hazy).
- Background Color: sky blue, gray-white, new leaf green, etc.
- Sky Conditions: indicate cloud cover by percentage or by description (clear, scattered, broken, overcast).
- Wind Speed: record wind speed; can use Beaufort wind scale or hand-held anemometer to estimate.
- Wind Direction From: direction from which wind is blowing; can use compass to estimate to eight points.
- Ambient Temperature: in degrees Fahrenheit or Celsius.

Wet Bulb Temperature: can be measured using a sling psychrometer

RH Percent: relative humidity measured using a sling psychrometer; use local US Weather Bureau measurements only if nearby.

- Source Layout Sketch: include wind direction, sun position, associated stacks, roads, and other landmarks to fully identify location of emission point and observer position.

Draw North Arrow: to determine, point line of sight in direction of emission point, place compass beside circle, and draw in arrow parallel to compass needle.

Sun's Location: point line of sight in direction of emission point, move pen upright along sun location line, mark location of sun when pen's shadow crosses the observer's position.

- Observation Date: date observations conducted.
- Start Time, End Time: beginning and end times of observation period (e.g., 1635 or 4:35 p.m.).
- Data Set: percent opacity to nearest 5%; enter from left to right starting in left column. Use a second (third, etc.) form, if readings continue beyond 30 minutes. Use dash (-) for readings not made; explain in adjacent comments section.

Comments: note changing observation conditions, plume characteristics, and/or reasons for missed readings.

Range of Opacity: note highest and lowest opacity number.

- Observer's Name: print in full.

Observer's Signature, Date: sign and date after performing VE observation.

- Organization: observer's employer.
- Certified By, Date: name of "smoke school" certifying observer and date of most recent certification.

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION AIR QUALITY DIVISION - VISIBLE EMISSIONS OBSERVATION FORM									
Page No. _____									
Source Name		Type of Source		Observation Date		Start Time		End Time	
Address		City		State		Zip		Comments	
Phone # (Key Contact)		Source ID Number		Process Equipment		Operating Mode		Control Equipment	
Describe Emission Point		Height above ground level		Height relative to observer		Inclinometer Reading		Distance From Observer	
Direction From Observer		Start		End		Describe Emissions & Color		Start	
End		Visible Water Vapor Present? If yes, determine approximate distance from stack exit to where the plume was read		Point in Plume at Which Opacity Was Determined		Describe Plume Background		Background Color	
Start		End		Sky Conditions: Start		Wind Speed		Wind Direction From	
Start		End		Ambient Temperature		Wet Bulb Temp		RH percent	
End		NOTES: 1 Stack or Point Being Read 2 Wind Direction From		3 Observer Location 4 Sun Location 5 North Arrow 6 Other Stacks		Range of Opacity		Minimum	
End						Maximum		I have received a copy of these opacity observations	
End								Print Observer's Name	
End								Observer's Signature	
End								Date	
End								Signature:	
End								Title	
End								Date	
End								Organization	
End								Certified By:	
End								Date	

Section 13. Material Balance Calculation

If the sulfur content of a fuel shipment is greater than 0.75 percent by weight, calculate the three-hour exhaust concentration of SO₂ using the following equations:

$$\begin{aligned}
 \text{A.} &= 31,200 \times [\text{wt}\% \mathbf{S}_{\text{fuel}}] = 31,200 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{B.} &= 0.148 \times [\text{wt}\% \mathbf{S}_{\text{fuel}}] = 0.148 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{C.} &= 0.396 \times [\text{wt}\% \mathbf{C}_{\text{fuel}}] = 0.396 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{D.} &= 0.933 \times [\text{wt}\% \mathbf{H}_{\text{fuel}}] = 0.933 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{E.} &= \text{B} + \text{C} + \text{D} = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{F.} &= 21 - [\text{vol}\%_{\text{dry}} \mathbf{O}_2, \text{ exhaust}] = 21 - \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{G.} &= [\text{vol}\%_{\text{dry}} \mathbf{O}_2, \text{ exhaust}] \div \text{F} = \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{H.} &= 1 + \text{G} = 1 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{I.} &= \text{E} \times \text{H} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \mathbf{SO}_2 \text{ concentration} &= \text{A} \div \text{I} = \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ ppm}
 \end{aligned}$$

The wt% S_{fuel}, wt% C_{fuel}, and wt% H_{fuel} are equal to the weight percents of sulfur, carbon, and hydrogen in the fuel. These percentages should total 100%.

The fuel weight percent (wt%) of sulfur is obtained pursuant to Condition 8.2. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

The volume percent of oxygen in the exhaust (vol%_{dry} O₂, exhaust) is obtained from oxygen meters, manufacturer's data, or from the most recent ORSAT analysis at the same engine load used in the calculation.

Enter all of the data in percentages without dividing the percentages by 100. For example, if wt% S_{fuel} = 1.0%, then enter 1.0 into the equations not 0.01 and if vol%_{dry} O₂, exhaust = 3.00%, then enter 3.00, not 0.03.

[18 AAC 50.346(c)]

Section 14. ADEC Notification Form¹⁰

Glenallen Diesel Plant

AQ0287TVP03

Stationary Source Name

Air Quality Permit No.

Copper Valley Electric Association, Inc.

Company Name

Date

When did you discover the Excess Emissions/Permit Deviation?

Date: _____ / _____ / _____

Time: _____ :/ _____

When did the event/deviation occur?

Begin Date: _____ / _____ / _____

Time: _____ : _____ (Use 24-hr clock.)

End Date _____ / _____ / _____

Time: _____ : _____ (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
- Deviation from Permit Condition – Complete Section 2 and Certify
- Deviations from COBC, CO, or Settlement Agreement – Complete Section 2 and Certify

Section 1. Excess Emissions

(a) Was the exceedance: Intermittent or Continuous

(b) Cause of Event (Check one that applies):

- Start Up/Shut Down Natural Cause (weather/earthquake/flood)
- Control Equipment Failure Schedule Maintenance/Equipment Adjustment
- 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.

(d) Emissions Units Involved:
Identify the emission unit 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

¹⁰ Revised as of August 20, 2008.

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(e) Type of Incident (please check only one):

- Opacity _____ %
 Venting _____ gas/scf
 Control Equipment Down
 Fugitive Emissions
 Emission Limit Exceeded
 Other _____
 Marine Vessel Opacity
 Flaring _____

(f) 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 only one box, corresponding with the section in the permit):

- Emission Unit-Specific Generally Applicable Requirements
 Failure to Monitor/Report Reporting/Monitoring for Diesel Engines
 General Source Test/Monitoring Requirements Recordkeeping Failure
 Recording/Reporting/Compliance Certification Insignificant Emission Unit
 Standard Conditions Not Included in the Permit Stationary Source Wide
 Other Section: _____ (Title of section and section number of your permit).

(b) Emission Unit Involved:

Identify the emission unit involved in the event, using the same identification number and name as in the permit. List the corresponding permit conditions 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.

(d) Corrective Actions:

Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence.

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)*

To Submit this Report:

Fax to: 907-451-2187

Or

Email to: DEC.AQ.Airreports@alaska.gov

If faxed or emailed, the report must be certified within the Operating Report required for the same reporting period per Condition 46.

Or

Mail to: ADEC
Air Permits Program
610 University Avenue
Fairbanks, AK 99709-3643

Or

Phone Notification: 907-451-5173

Phone notifications require a written follow-up report.

Or

Submission of information contained in this report can be made electronically at the following website:

<https://myalaska.state.ak.us/deca/air/airtoolsweb/>

If submitted online, report must be submitted by an authorized E-Signer for the stationary source.

[18 AAC 50.346(b)(3)]