

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AIR QUALITY OPERATING PERMIT

Permit No. AQ0168TVP02

Issue Date: Public Comment Draft - date
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, **BP Exploration (Alaska) Inc.**, for the operation of the **Grind and Inject Facility**.

The Grind and Inject Facility is aggregated with the BPXA Flow Station #2 (AQ0268TVP01) and BPXA Transportable Drill Rigs (AQ0455TVP01) and are considered one stationary source for purposes of determining applicability with the modification requirements of 18 AAC 50.302 and operating permit requirements of AS 46.14.130(b). Emitting activities at this source have multiple operating permits under AS 46.14.190(b). This permit governs only Grind and Inject activities at the Grind and Inject stationary source.

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.

Upon effective date of this permit, Operating Permit No. AQ0168TVP01 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 [<i>NESHAPs</i> as contained in 40 C.F.R. 61 and 63]
ADEC	Alaska Department of Environmental Conservation	NO _x	Nitrogen Oxides
AS	Alaska Statutes	NSPS	Federal New Source Performance Standards [<i>NSPS</i> 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	PM-10	Particulate Matter less than or equal to a nominal ten microns in diameter
C.F.R.	Code of Federal Regulations	ppm	Parts per million
The Act	Clean Air Act	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	SIC.	Standard Industrial Classification
gr./dscf	grain per dry standard cubic foot (1 pound = 7000 grains)	SO ₂	Sulfur dioxide
GPH	gallons per hour	TDR	transportable drill rigs
HAPs	Hazardous Air Pollutants [<i>HAPs</i> as defined in AS 46.14.990(14)]	TPH	Tons per hour
ID	Emission Unit Identification Number	TPY	Tons per year
kPa	kilopascals	VOC	volatile organic compound [<i>VOC</i> as defined in 40 C.F.R. 51.100(s)]
LHV	Lower Heating Value	VOL	volatile organic liquid [<i>VOL</i> as defined in 40 C.F.R. 60.111b, Subpart Kb]
LAER	Lowest Achievable Emission Rate	vol%	volume percent
MACT	Maximum Achievable Control Technology as defined in 40 C.F.R. 63.	wt%	weight percent
MMBtu/hr	Million British thermal units per hour		
mmscf	million standard cubic feet		
MR&R	Monitoring, Recordkeeping, and Reporting		

Section 1. Stationary Source Information

Identification

Names and Addresses

Permittee:	BP Exploration (Alaska) Inc. 900 E. Benson Boulevard, P.O. Box 196612 Anchorage, AK 99508	
Stationary Source Name:	Grind and Inject Facility	
Location:	Section 11, Township 11N, Range 14E, Umiat Meridian, Prudhoe Bay, Alaska	
Physical Address:	Section 11, Township 11N, Range 14E, Umiat Meridian, Prudhoe Bay, Alaska	
Owner:	BP Exploration (Alaska) Inc. 900 E. Benson Blvd. (Zip 99508) P.O. Box 196612 Anchorage, AK 99519-6612	ConocoPhillips Alaska, Inc. 700 G Street (Zip 99501) P.O. Box 100360 Anchorage, AK 99510-0360
	Chevron USA Inc. P.O. Box 36366 Houston, TX 77236	ExxonMobil Alaska Production, Inc. 3301 C Street, Suite 400 (Zip 99503) P.O. Box 196601 Anchorage, AK 99519-6601
Operator:	BP Exploration (Alaska) Inc. 900 E. Benson Boulevard, P.O. Box 196612 Anchorage, Alaska 99508	
Permittee's Responsible Official	Arlene Chow, GPB Infrastructure Manager	
Designated Agent:	CT Corporation Systems 9360 Glacier Hwy, Suite 202 Juneau, AK 99801	
Stationary Source and Building Contact:	Henry Harrington / Lawrence Cantrell (907) 564-5734 Roads, Pads, and Remediation Team Lead henry.harrington@bp.com larry.cantrell0@bp.com	
Fee and Permit Contact:	Rachel Buckbee, Air Specialist (907) 564-5363 rachel.buckbee@bp.com	
Process Description SIC Code:	1311 Crude Oil Petroleum and Natural Gas	

[18 AAC 50.040(j)(3), 7/25/08 and 18 AAC 50.326(a), 12/1/04]
[40 C.F.R. 71.5(c)(1 & 2), 7/2/07]

Section 2. Emission Unit Inventory and Description

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

Table A - Emission Units Inventory

EU ID	Emission Unit Name	Emission Unit Description	Rating/size	Installation Date
1	Grind and Inject Facility (Module Numbers 09-4901 [Injection], 09-4902 [Ball Mill], 09-4903 [Auger Conveyor])	Crusher, grinding mill	149 tons/hr	1994
2	09-1401 [Seawater Heater]	Seawater Heater	32.9 MMBtu/hr [heat input LHV]	1994

[18 AAC 50.326(a), 12/1/04]
[40 C.F.R. 71.5(c)(3), 7/2/07]

Section 3. State Requirements

Visible Emissions Standards

1. Industrial Process and Fuel-Burning Equipment Visible Emissions. The Permittee shall comply with the following :

1.1 Do not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 1 or 2 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), 7/25/08; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]

1.2 For EU ID 1, compliance with condition 1.1 will be assumed based on compliance with condition 9 (NSPS Subpart OOO) for particulate matter. No other monitoring, reporting, or recordkeeping are required.

1.3 For EU ID 2, use only gas as fuel. Monitoring for this emission unit shall consist of a certification in each operating report required in condition 42 that the emission unit fired only gas.

a. If any fuel other than gas is burned for in EU ID 2 in excess of 14-days of continuous operation, then monitor in accordance with EPA Reference Method 9 once per 100 hours of operation on backup fuel. Report in the operating report required by condition 42 the hours of operation on backup liquid fuel and provide copies of VE observations.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

Particulate Matter Emissions Standards

2. Industrial Process and Fuel-Burning Equipment Particulate Matter. The Permittee shall not cause or allow particulate matter emitted from EU ID 1 or 2 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), 7/25/08; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]

2.1 For EU ID 1, monitor, record and report in accordance with conditions 9 through 12.

2.2 For EU ID 2, burn only gas as fuel. Monitoring for this emission unit shall consist of a certification in each operating report under condition 42 that this emission unit fired only gas. Report under condition 41 if any fuel is burned other than gas.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

Sulfur Compound Emission Standards Requirements

- 3. Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from EU ID 2 to exceed 500 ppm averaged over three hours.

[18 AAC 50.040(j) & 50.055(c), 7/25/08 and 18 AAC 50.326(j), 12/1/04;]
[40 C.F.R. 71.6(a)(1), 7/2/07]

For fuel gas¹, EU ID 2

3.1 Monitoring – The Permittee shall **either**

- a. obtain a semiannual statement from the fuel supplier of the fuel gas H₂S concentration in ppm; **or**
- b. analyze a representative sample of the fuel semiannually to determine the sulfur content using either ASTM D4084, D5504, D4810, D4913, D6228 or GPA Standard 2377, or a listed method approved in 18 AAC 50.035(b)-(c) and 40 CFR 60.17 incorporated by reference in 18 AAC 50.040(a)(1).

3.2 Recordkeeping - Keep records of the semiannual statements from the fuel supplier or the sulfur content analysis required under conditions 3.1a or 3.1b.

3.3 Reporting -

- a. Report as excess emissions, in accordance with condition 41, whenever the fuel combusted causes sulfur compound emissions to exceed the standard of condition 3.
- b. Include copies of the records required by condition 3.2 with the stationary source operating report required by condition 42.

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j)(4), 12/1/04]
[40 C.F.R. 71.6(a)(3) & (c)(6), 7/2/07]

Insignificant Emission Units

- 4.** 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:

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

[18 AAC 50.055(a)(1), 7/25/08]

¹ *Fuel gas* has the meaning taken as natural gas as defined in 40 C.F.R. 60.41b, effective 7/1/07.

- 4.2 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), 7/25/08]

- 4.3 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), 7/25/08]

4.4 General MR&R for Insignificant Emission Units

- a. The Permittee shall submit the compliance certifications of condition 43 based on reasonable inquiry;
- b. The Permittee shall comply with the requirements of condition 22;
- c. The Permittee shall report in the operating report required by condition 42 if an emission unit is insignificant because of historical actual emissions less than the thresholds of 18 AAC 50.326(e) and current actual emissions become greater than any of those thresholds;
- d. No other monitoring, recordkeeping or reporting is required.

[18 AAC 50.346(b)(4), 11/9/08]

Section 4. Federal Requirements

Emission Units Subject to Federal New Source Performance Standards (NSPS), Subpart A

5. **NSPS Subpart A Startup, Shutdown, & Malfunction Requirements.** The Permittee shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of EU ID 1, any malfunctions of associated air-pollution control equipment, or any periods during which a continuous monitoring system or monitoring device for EU ID 1 is inoperative.

[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.7(b), Subpart A, 7/1/07]

6. **NSPS Subpart A Good Air Pollution Control Practice.** At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate EU ID 1 including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The administrator will determine whether acceptable operating and maintenance procedures are being used based on information available to the Department which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance records, and inspections of EU ID 1.

[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.11(d), Subpart A, 7/1/07]

7. **NSPS Subpart A Credible Evidence.** For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of the standards set forth in condition 9, nothing in 40 C.F.R. Part 60 shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether EU ID 1 would have been in compliance with applicable requirements of 40 C.F.R. Part 60 if the appropriate performance or compliance test or procedure had been performed.

[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.11(g), Subpart A, 7/1/07]

8. **NSPS Subpart A Concealment of Emissions.** The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of a standard set forth in condition 9. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.12, Subpart A, 7/1/07]

Nonmetallic Mineral Processing Plants Subject to NSPS Subpart OOO, (EU ID 1)

9. **NSPS Subpart OOO Standards for Particulate Matter.** The Permittee shall not cause fugitive emissions from the building openings (except for vents as defined in §60.671) to exceed 7% opacity.

[18 AAC 50.040(a)(2)(FF), 7/25/08]
[40 C.F.R. 60.672(e)(1), Subpart OOO, 4/28/09]

- 10. Monitoring.** Demonstrate compliance monthly with condition 9 using 40 C.F.R. 60 Appendix A, Reference Method 22 as described in 40 C.F.R. 60.675(d).

[18 AAC 50.040(a)(2)(FF), 7/25/08]
[40 C.F.R. 60.675, Subpart OOO, 7/1/07]
[40 C.F.R. 60.8, Subpart A, 7/1/07]

- 11. Recordkeeping.** Record and keep all information required for monitoring under condition 10.

[18 AAC 50.045(d), 10/1/04; 18 AAC 50.040(e), 7/25/08; 18 AAC 50.326(j)(3), 12/1/04
and 18 AAC 50.346(c), 11/9/08]

- 12. Reporting.** Per condition 42, the Permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in condition 9 reports of observations under condition 10 using Method 22 to demonstrate compliance with §60.672(e).

12.1 The owner or operator of any wet material processing operation that processes saturated and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in §60.672(b) and the emission test requirements of §60.11

12.2 Report any excess emissions in accordance with condition 41, whenever the emission limit of conditions 9 is exceeded.

12.3 The Permittee shall report complaints according to condition 22.

[18 AAC 50.040(a)(2)(FF), 7/25/08]
[40 C.F.R. 60.676 Subpart OOO, 7/1/07]

Section 5. General Conditions

Standard Terms and Conditions

- 13.** 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), 12/1/04 and 18 AAC 50.345(a) & (e), 11/9/08]

- 14.** 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), 12/1/04 and 18 AAC 50.345(a) & (f), 11/9/08]

- 15.** The permit does not convey any property rights of any sort, nor any exclusive privilege.

[18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.345(a) & (g), 11/9/08]

- 16. 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), 12/1/04; 18 AAC 50.400, 7/25/2008; 18 AAC 50.403, 12/3/05 and 18 AAC 50.405, 1/29/05]
[AS 37.10.052(b), 11/04 and AS 46.14.240, 8/01/07]

- 17. 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

17.1 the portion of the stationary source's assessable potential to emit of 33.5 TPY (excluding contributions from BPXA FS-2, AQ0268TVP01 and BPXA drill rig activities—AQ0455TVP01) ; or

17.2 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) 7/25/08; 18 AAC 50.326(j)(1), 12/1/04; 18 AAC 50.035 and 18 AAC 50.346(b)(1), 11/9/08; 18 AAC 50.410, 6/18/09; and 18 AAC 50.420, 01/29/05]

[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]

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

18.1 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., Juneau, AK 99801-1795; 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

18.2 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 17.1.

[18 AAC 50.040(j)(3), 7/25/08; 18 AAC 50.326(j)(1), 12/1/04; 18AAC 50.346(b)(1), 11/9/08, 18 AAC 50.410, 6/18/09; and 18 AAC 50.420, 01/29/05]
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]

19. Good Air Pollution Control Practice. The Permittee shall do the following for EU ID 2:

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

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

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

[18 AAC 50.030, 11/09/08; 18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.346(b)(5), 11/9/08]

20. 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), 10/1/04]

21. 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), 7/25/08]

22. 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, 5/26/72; 18 AAC 50.040(e), 7/25/08; 18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.346(a), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

22.1 Monitoring, Record Keeping, 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 41.
 - 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 22.
- 22.2 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 22; or
 - b. the Department notifies the Permittee that it has found a violation of condition 22.
- 22.3 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 22; and
 - d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.
- 22.4 With each stationary source operating report under condition 42, 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.
- 22.5 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.

- 23. 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 standard² listed in condition(s) 9, or 25 (refrigerants), the Permittee shall take all reasonable steps to minimize levels of emissions that exceed the standard. Excess emissions reporting under condition 41 requires information on the steps taken to minimize emissions. Monitoring of compliance for this condition consists of the report required under condition 41.

[18 AAC 50.235(a) & 50.326(j)(4), 10/1/04 and 18 AAC 50.040(j)(4), 7/25/08]
[40 C.F.R. 71.6(c)(6), 7/2/07]

- 24. Asbestos NESHAP.** The Permittee shall comply with the requirements set forth in 40 C.F.R. 61.145 and 61.150 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), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 61, Subparts A & M, and Appendix A, 5/16/07]

- 25. 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), 7/25/08 & 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 82, Subpart F, 7/1/07]

NESHAPs Applicability Determinations

- 26.** 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). If a source becomes affected by an applicable subpart of 40 C.F.R. 63, Permittee shall comply with such standard by the compliance date established by the Administrator in the applicable subpart.

- 26.1 If the Permittee determines that the source is not subject to a relevant standard or other requirement established under 40 C.F.R. 63, the Permittee must keep a record of the applicability determination onsite for a period of 5 years after the determination or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the Permittee believes the source is unaffected. The analysis (or other information) must be sufficiently detailed to allow the Department to make a finding about the source's applicability status with regard to the relevant standard or other requirement.

[18 AAC 50.040(c)(1)(A) & (E) & 50.040(j), 7/25/08, and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(ii), 7/2/07; and 40 C.F.R. 63.1(b) & 63.6(c)(1), 7/16/07]

² *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.

Open Burning Requirements

- 27.** Open Burning. The Permittee shall conduct any open burning at the Grind and Inject Facility in accordance with the requirements of 18 AAC 50.065. Monitoring shall consist of an annual certification that any open burning was conducted in compliance with 18 AAC 50.065. The Permittee shall obtain a Department open burn approval before conducting open burning classified as requiring approval at the stationary source.

[18 AAC 50.065, 1/18/97; 18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3), 7/1/07]

Section 6. General Source Testing and Monitoring Requirements

- 28. 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), 10/1/04 and 18 AAC 50.345(a) & (k), 11/9/08]

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

[18 AAC 50.220(b), 10/1/04]

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

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

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

30.1 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), 10/1/04 and 18 AAC 50.040(a), 7/25/08]
[40 C.F.R. 60, 7/1/07]

30.2 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 11 to record data.

[18 AAC 50.030, 11/9/08, and 18 AAC 50.220(c)(1)(D), 10/1/04]

30.3 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), 7/25/08, and 18 AAC 50.220(c)(1)(E), 10/1/04]
[40 C.F.R. 60, Appendix A, 7/1/07]

30.4 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), 11/9/08; and 50.220(c)(1)(F), 10/1/04]
[40 C.F.R. 51, Appendix M, 7/01/07]

30.5 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), 7/25/08 and 50.220(c)(2), 10/1/04]

[40 C.F.R. 63, Appendix A, Method 301, 7/16/07]

- 31. 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 source 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), 10/1/04 and 50.990(102), 7/25/08]

- 32. Test Exemption.** The Permittee is not required to comply with conditions 34, 35 and 36 when the exhaust is observed for visible emissions.

[18 AAC 50.345(a), 11/9/08]

- 33. 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), 11/9/08]

- 34. Test Plans.** Except as provided in condition 32, 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 source 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 28 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), 11/9/08]

- 35. Test Notification.** Except as provided in condition 32, 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), 11/9/08]

- 36. Test Reports.** Except as provided in condition 32, 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 38. 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), 11/9/08]

Section 7. General Recordkeeping and Reporting Requirements

Recordkeeping Requirements

37. 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), 12/1/04]
[40 C.F.R 60.7(f), Subpart A, 7/1/07 and 71.6(a)(3)(ii)(B), 7/2/07]

- 37.1 copies of all reports and certifications submitted pursuant to this section of the permit; and
- 37.2 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

38. Certification. The Permittee shall certify all reports, compliance certifications, or other documents 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.

- 38.1 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 38.1a, 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), 11/9/08; 18 AAC 50.205, 10/1/04; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

- 39. 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 38.

[18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

- 40. 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), 11/9/08; 18 AAC 50.200, 10/1/04; and 18 AAC 50.326(a) & (j), 12/1/04]
[40 C.F.R. 71.5(a)(2) & 71.6(a)(3), 7/2/07]

- 41. Excess Emissions and Permit Deviation Reports.**

[18 AAC 50.235(a)(2), & 50.240(c), 10/1/04; 18 AAC 50.326(j)(3), 12/1/04
and 18 AAC 50.346(b)(2) & (3), 11/9/08]

41.1 Except as provided in condition 22, 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 non-routine 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 41.1c(ii) and 41.1c(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 41.1c(i); and

- (iii) for failure to monitor, as required in other applicable conditions of this permit.

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 13 of this permit. The Permittee must provide all information called for by the form that is used.

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

- 42. Operating Reports.** During the life of this permit³, 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.

[18 AAC 50.346(a), 11/9/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

- 42.1 The operating report must include all information required to be in operating reports by other conditions of this permit. 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 Departmental submission requirements.
- 42.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under condition 42.1, 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 41 the Permittee shall cite the date or dates of those reports.

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.

- 42.3 The operating report must include a listing of emissions monitored under condition 10, 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.
- 42.4 **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.
- 43. Annual Compliance Certification.** Each year by March 31, the Permittee shall compile and submit to the Department one original⁴ and one copy of an annual compliance certification report. The Permittee, at their discretion, may submit one copy in electronic format (PDF or other Department compatible image format).
- 43.1 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 9, 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.
- 43.2 **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
- 43.3 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, 10/1/04; 18 AAC 50.345(a) & (j), 11/9/08; and 50.326(j), 12/1/04]
[40 C.F.R. 71.6(c)(5), 7/2/07]
- 44. NSPS and NESHAP Reports.** The Permittee shall:

⁴ See Condition 43.2 for clarification on number of reports required.

- 44.1 attach to the facility operating report required by condition 42, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10; and
- 44.2 upon request by the Department, notify and provide a written copy of any EPA-granted waiver of the federal emission standards, record keeping, monitoring, performance testing, or reporting requirements, or approved custom monitoring schedules.

[18 AAC 50.326(j)(4), 12/1/04, and 18 AAC 50.040(j), 7/25/08]
[40 CFR 71.6(c)(6), 7/2/07]

Section 8. Permit Changes and Renewal

45. Permit Applications and Submittals: The Permittee shall comply with the following requirements for submitting application information to the US Environmental Protection Agency (EPA):

45.1 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 Department;

45.2 The information shall be submitted to the same address as in condition 43.3.

45.3 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

45.4 The Permittee shall maintain records as necessary to demonstrate compliance with this condition.

[18 AAC 50.040(j)(7), 7/25/08 and 18 AAC 50.326(b), 12/1/04]
[40 CFR 71.10(d)(1), 7/2/07]

46. 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), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(8), 7/2/07]

47. 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 CFR 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:

[18 AAC 50.040(j)(4), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(12), 7/2/07]

47.1 Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;

47.2 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;

47.3 The change shall not qualify for the shield under 40 CFR 71.6(f);

47.4 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.

48. 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):

48.1 The Permittee shall provide EPA and the Department with a notification no less than 7 days in advance of the proposed change.

48.2 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.

48.3 The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to condition 48.

[18 AAC 50.040(j)(4), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(13), 7/2/07]

49. 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 CFR 71.7(b) and 71.5(a)(1)(iii).

[18 AAC 50.040(j)(3), 7/25/08 and 18 AAC 50.326(c)(2) & (j)(2), 12/1/04]
[40 CFR 71.5(a)(1)(iii) and 71.7(b) & (c)(1)(ii), 7/2/07]

50. Permit Applications. The Permittee shall send original applications for modification, or renewal of this permit and application addenda to the Department's Anchorage office⁵. In addition, the Permittee may provide electronic copies of application documents; portable document format (PDF) or MS Word are acceptable formats.

[18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.7(a)(1)(i), 7/2/07]

⁵ The current address for the Anchorage office is: ADEC, 619 East Ship Creek, Suite 249, Anchorage, AK 99501

51. The Permittee shall submit to the US Environmental Protection Agency (EPA) to the same address as in condition 43.3:

51.1 a copy of any application for modification, or renewal of this permit and application addenda, at the time the application or addendum is submitted to the Department;

51.2 to the extent practicable, the Permittee shall provide to EPA applications in computer-readable format compatible with EPA's national database management system. In the interim until EPA implements such system, portable document format (pdf) or MS Word are acceptable formats.

[18 AAC 50.040(j)(7), 7/25/08; and 18 AAC 50.326(b), 12/1/04]

[40 CFR 70.10(d)(1)), 7/2/07]

Section 9. Compliance Requirements

General Compliance Requirements

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

52.1 included and specifically identified in the permit; or

52.2 determined in writing in the permit to be inapplicable.

[18 AAC 50.326(j)(3), 12/1/04; and 18 AAC 50.345(a) & (b), 11/9/08]

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

53.1 an enforcement action;

53.2 permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or

53.3 denial of an operating permit renewal application.

[18 AAC 50.326(j)(3), 12/1/04; and 18 AAC 50.345(a) & (c), 11/9/08]

54. 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), 10/1/04; and 18 AAC 50.345(a) & (d), 11/9/08]

55. 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

55.1 enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;

55.2 have access to and copy any records required by the permit;

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

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

[18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.345(a) & (h), 11/9/08]

- 56.** For applicable requirements with which the Grind and Inject Facility is in compliance, the Permittee will continue to comply with such requirements.

[18 AAC 50.040(j), 7/25/08 & 18 AAC 50.326(j), 12/1/04]

[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(A), 7/2/07]

Section 10. Permit As Shield from Inapplicable Requirements

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

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

57.1 The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section; or

57.2 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), 12/1/04]

58. [40 C.F.R. 71.6(f)(3)(i) and (ii), 7/2/07]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), 12/1/04]
[40 C.F.R. 71.6(f)(1)(ii), 7/2/07]

Table B - Permit Shields Granted.

EU ID	Non-Applicable Requirements	Reason for non-applicability
EU ID 2	40 C.F.R. 60 Subpart D	Heat input capacity below threshold (250 MMBtu/hr), and unit not classified as Fossil-Fuel-Fired Steam Generator, as defined in subpart.
	40 C.F.R. 60 Subpart Da	Heat input capacity below threshold (250 MMBtu/hr), and unit not classified as Fossil-Fuel-Fired Steam Generator, as defined in subpart.
	40 C.F.R. 60 Subpart Db	Heat input capacity below threshold (100 MMBtu/hr), and commenced construction after effective date of subpart (6/20/84 to 6/19/86).
	40 C.F.R. 60, Subpart Dc	Per EPA memorandum (Control Number PS36) dated November 17, 1992, a device is not considered a steam generating unit under Subpart Dc if it transfers heat to a heat transfer medium by direct contact or intermixing of the combustion gases and the heat transfer medium. The sea water heater operates with combustion gases making direct contact with seawater.
EU ID 1	40 C.F.R. 60 Subpart LL	Emission unit does not meet the affected facility definition for metallic mineral

EU ID	Non-Applicable Requirements	Reason for non-applicability
		processing plant.
	40 C.F.R. 60 Subpart OOO §60.674, §60.675(f), §60.676(c) – (e)	Emission unit does not use a wet scrubber to control emissions.
	40 CFR 60 Subpart OOO §60.676(a)	Permittee is not seeking to comply with §60.670(d).
	40 CFR 60, Subpart A, §60.7(c) & (d)	The provision of §60.7(c) and (d) apply only to New Source Performance Standards which require the installation of a continuous monitoring system (CMS) or monitoring device, as defined in §60.2., or as otherwise required by an applicable NSPS subpart. The Grind and Inject Facility is not required to install a continuous monitoring device under NSPS Subpart OOO.
	40 C.F.R. 60 Subpart OOO §§60.672(a)	A “capture system” and a control device”, as defined under Subpart OOO, are not in place at the Grind and Inject Facility. Therefore, “stack emissions” are not present.
	40 C.F.R. 60 Subpart OOO §§60.672(b) and (c)	40 CFR 60.672(b) and (c) do not apply to operations within an enclosure.
	40 C.F.R. 60 Subpart OOO §§60.672(e)(2)	“Vents” as defined by Subpart OOO, are not employed at the Grind and Inject Facility. There are openings in the ball mill enclosure at G&I that exhaust to the atmosphere, but they are not installed for the “purpose of exhausting...air carrying particulate matter emissions” because the system treats only saturated (wet) materials.
	40 C.F.R. 60 Subpart OOO §60.672(f)	Permittee does not operate any baghouse control devices on this emission unit.
	40 C.F.R. 60 Subpart OOO §60.672(g)	Permittee does not operate the crushing and grinding activities with multiple storage bins with combined stack emissions.
	40 C.F.R. 60 Subpart OOO §§60.675(b)	The testing requirements of §§60.675(b) do not apply because the affected source is not determining compliance with the standards of §60.672(a)
	40 C.F.R. 60 Subpart OOO §§60.675(c)	The testing requirements of §§60.675(c) do not apply because the affected source is not determining compliance with the standards of §§60.672(b) and (c).
	40 C.F.R. 60 Subpart A – General Provisions §60.7(a)(1) and (a)(3) – Notification and Recordkeeping (Initial Notifications)	The requirements to submit initial notifications have been completed as required. This shield only applies to existing units as currently installed in Table A.
	40 C.F.R. 60 Subpart A – General Provisions §60.7(a)(4)	This requirement only applies to “existing facilities” that commenced construction before the applicable date of a subpart

EU ID	Non-Applicable Requirements	Reason for non-applicability
		under 40 CFR 60 and is, therefore, not affected by the subpart, but could be if the stationary source were modified or reconstructed (see the definition of an “existing facility” in §60.2). The G&I is an “affected facility” (as defined by §60.2, not an “existing facility.”
Stationary source-wide	40 CFR 61 Subpart M §§61.142 – 61.144 §§61.146 – 61.149 §61.151 – 61.152 §§61.154 – 61.155	Stationary source does not conduct operations or activities affected by the referenced standards.
	40 CFR 61 Subpart M §61.153 Reporting	No asbestos demolition/renovation reporting is required from sources subject to §61.145 (demolition and renovation) [ref. §61.153(a)]
	40 CFR 64 - Compliance Assurance Monitoring	The stationary source does not operate any pollutant-specific emission unit that meets the applicability criteria under §64.2(a).
	40 CFR 68 - Accidental Release Prevention Requirements: Risk Management Programs [§112(r)]	Stationary source does not store, process or transport regulated flammable or toxic substances in excess of threshold quantities.
	40 CFR 82 – Stratospheric Ozone Protection §82.1 Subpart A	Stationary source does not produce, transform, destroy, import or export Class I or Group I or II substances or products.
	§82.30 Subpart B	Stationary source does not service motor vehicle air conditioners.
	§82.60 Subpart C	Facility is not a manufacturer or distributor of Class I and II products or substances.
	§82.80 Subpart D	Subpart applies only to Federal Departments, agencies, and instrumentalities.
	§82.100 Subpart E	Stationary source is not a manufacturer or distributor of Class I and II products or substances.
	§82.158, §82.160, §82.164 Subpart F	§82.158: Stationary source does not manufacture or import recovery and recycling equipment. §82.160: Stationary source does not contract equipment testing organizations to certify recovery and recycling equipment. §82.164: Stationary source does not sell reclaimed refrigerant.
	§82 Subpart F, Appendix C	Stationary source is not a third party entity that certifies recovery equipment.
	§82 Subpart F, Appendix D	Stationary source does not have a technician certification program.
§82 Subpart G	Stationary source does not use Halon or any substitute ozone-depleting compounds for any purpose.	
§82 Subpart H	Stationary source does not use Halon,	

EU ID	Non-Applicable Requirements	Reason for non-applicability
		Halon blends, Halon products, or Halon-containing equipment.
All Nonroad Engines	18 AAC 50.055(a)(1) 18 AAC 50.055(b)(1) 18 AAC 50.055(c)	Nonroad (mobile) internal combustion engines are not included in the definition of fuel-burning equipment (18 AAC 50.990)

Section 11. Visible Emissions Forms

Visible Emissions Field Data Sheet

Certified Observer: _____

Company &
Stationary
Source: _____

Location: _____

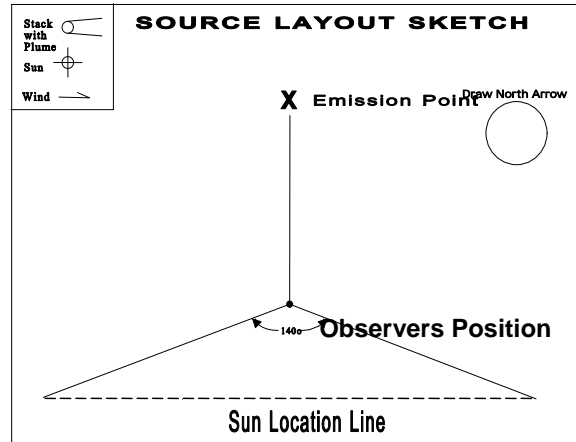
Test No.: _____ Date: _____

Emission Unit: _____

Production Rate/Operating
Rate: _____

Unit Operating Hours: _____

Hrs. of observation: _____



Clock Time	Initial				Final
Observer location					
Distance to discharge					
Direction from discharge					
Height of observer point					
Background description					
Weather conditions					
Wind Direction					
Wind speed					
Ambient Temperature					
Relative humidity					
Sky conditions: (clear, overcast, % clouds, etc.)					
Plume description:					
Color					
Distance visible					
Water droplet plume? (Attached or detached?)					
Other information					

Section 12. Material Balance Calculation

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

A. = 31,200 x [wt%**S**_{fuel}] = 31,200 x _____ = _____

B. = 0.148 x [wt%**S**_{fuel}] = 0.148 x _____ = _____

C. = 0.396 x [wt%**C**_{fuel}] = 0.396 x _____ = _____

D. = 0.933 x [wt%**H**_{fuel}] = 0.933 x _____ = _____

E. = B + C + D = _____ + _____ + _____ = _____

F. = 21 - [vol%**dry O**_{2, exhaust}] = 21 - _____ = _____

G. = [vol%**dry O**_{2, exhaust}] ÷ F = _____ ÷ _____ = _____

H. = 1 + G = 1 + _____ = _____

I. = E x H = _____ x _____ = _____

SO₂ concentration = A ÷ I = _____ ÷ _____ = _____ ppm

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 3.1. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

The volume percent of oxygen in the exhaust (**vol%**dry O**_{2, 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 O**_{2, exhaust}** = 3.00%, then enter 3.00, not 0.03.

[18 AAC 50.346(c), 11/9/08]

Section 13. ADEC Notification Form⁶

Stationary Source (Facility) Name

Air Quality Permit Number

Company Name

When did you discover the Excess Emissions/Permit Deviation?

Date: _____ / _____ / _____ Time: _____ : _____

When did the event/deviation occur?

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

End Date: _____ / _____ / _____ Time: _____ : _____ (please use 24hr 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

Scheduled 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.

Unit ID	Emission Unit Name	Permit Condition Exceeded/Limit/Potential Exceedance

⁶ Revised as of August 20, 2008.

(e) Type of Incident (Please Check only one).

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

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

- Source Specific
 Failure to monitor/report
 Record Keeping Failure
 General Source Test/Monitoring Requirements
 Recordkeeping/Reporting/Compliance Certification
 Standard Conditions Not Included in Permit
 Generally Applicable Requirements
 Reporting/Monitoring for Diesel Engines
 Insignificant Source
 Facility 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

Unit ID	Unit Name	Permit Condition / Potential Deviation

as in the permit. List the corresponding permit conditions and the 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:

1. Fax to: 907-451-2187;

Or

2. Email to: DEC.AQ.Airreports@alaska.gov - *if faxed or emailed,*

Or

;

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

Or

4. Phone Notification: 907-451-5173

Phone notifications require a written follow-up report.

Or

5. 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.