

**DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION**



**18 AAC 50**

**Air Quality Control**

**Public Comment Draft**

**February 17, 2016**

**Comment Period Ends  
March 25, 2016, 5:00 p.m.**

**Bill Walker  
Governor**

**Larry Hartig  
Commissioner**

18 AAC 50.010(4) is amended to read:

(4) for ozone: a daily maximum eight-hour average of **.070** [.075] parts per million, with this standard being attained when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to **.070** [.075] parts per million;

...

18 AAC 50.010(7) is repealed:

(7) repealed \_\_\_/\_\_\_/\_\_\_ [FOR REDUCED SULFUR COMPOUNDS, EXPRESSED AS SULFUR DIOXIDE: 30-MINUTE AVERAGE OF 50 MICROGRAMS PER CUBIC METER NOT TO BE EXCEEDED MORE THAN ONCE EACH YEAR]; and

(Eff. 1/18/97, Register 141; am 6/21/98, Register 146; am 10/1/2004, Register 171; am 4/1/2010, Register 193; am 9/17/2011, Register 199; am 1/4/2013, Register 205; am 4/17/2015, Register 214; am \_\_\_/\_\_\_/\_\_\_, Register \_\_\_)

**Authority:** AS 46.03.020                      AS 46.14.030                      Sec. 30, ch. 74, SLA 1993  
AS 46.14.010

18 AAC 50.020(a), Table 2 is amended to read:

**Table 2. Baseline Areas and Dates**

| Baseline Area   | Air Pollutant    | Minor Source Baseline Date |
|---|------------------|----------------------------|
| Cook Inlet Intrastate Air Quality Control Region      | Nitrogen dioxide | February 8, 1988           |
|   | Sulfur dioxide   | October 12, 1979           |
|   | PM-10            | March 20, 1982             |
|   | PM-2.5           | September 14, 2012         |
| Northern Alaska Intrastate Air Quality Control Region | Nitrogen dioxide | February 8, 1988           |
|   | Sulfur dioxide   | June 1, 1979               |
|   | PM-10            | November 13, 1978          |
|   | PM-2.5           | November 2, 2012           |

|  |                  |  |
|--|------------------|--|
| South Central Alaska<br>Intrastate Air Quality<br>Control Region | Nitrogen dioxide | February 8, 1988   |
|  | Sulfur dioxide   | October 26, 1979   |
|  | PM-10            | October 26, 1979   |
|  | PM-2.5           | <b>October 15, 2015</b> [TO BE ESTABLISHED UNDER 40 C.F.R. 52.21(b)(14)(ii), ADOPTED BY REFERENCE IN 18 AAC 50.040(h)] |
| Southeast Alaska Intra-<br>state Air Quality Control<br>Region   | Nitrogen dioxide | February 8, 1988   |
|  | Sulfur dioxide   | November 10, 1986  |
|  | PM-10            | To be established under 40 C.F.R. 52.21(b)(14)(ii), adopted by reference in 18 AAC 50.040(h)                           |
|  | PM-2.5           | To be established under 40 C.F.R. 52.21(b)(14)(ii), adopted by reference in 18 AAC 50.040(h)                           |

(Eff. 1/18/97, Register 141; am 6/21/98, Register 146; am 10/1/2004, Register 171; am 7/25/2008, Register 187; am 1/4/2013, Register 205; am 4/17/2015, Register 214; am \_\_\_/\_\_\_/\_\_\_, Register \_\_\_)

**Authority:** AS 46.03.020 AS 46.14.010 AS 46.14.030

18 AAC 50.035(a)(3) is amended to read:

(3) the United States Environmental Protection Agency's (EPA) publication AP-42, *Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources*, Fifth Edition with Supplements A – F and annual updates, as updated through **January 2011** [DECEMBER 2007], **as found on** <http://dec.alaska.gov/Air/anpms/SIP/18AAC50ReferenceMaterials.htm>;

...

18 AAC 50.035(a)(7) is amended to read:

(7) AERSCREEN *User's Guide*, **EPA-454/B-15-005, dated July 2015** [EPA-454/B-11-011, DATED MARCH 2011];

(Eff. 1/18/97, Register 141; am 6/21/98, Register 146; am 7/2/2000, Register 154; am 2/2/2002, Register 161; am 5/3/2002, Register 162; am 10/1/2004, Register 171; am 12/3/2005, Register 176; am 7/25/2008, Register 187; am 11/9/2008, Register 188; am 4/1/2010, Register 193; am 9/17/2011, Register 199; am 4/8/2012, Register 202; am 9/14/2012, Register 203; am 1/4/2013,

Register 205; am 4/17/2015, Register 214; am \_\_/\_\_/\_\_\_\_, Register \_\_\_\_)

|                   |              |              |                           |
|-------------------|--------------|--------------|---------------------------|
| <b>Authority:</b> | AS 46.03.020 | AS 46.14.020 | AS 46.14.140              |
|                   | AS 46.14.010 | AS 46.14.030 | Sec. 30, ch. 74, SLA 1993 |

18 AAC 50.040(a) is amended to read:

**18 AAC 50.040. Federal standards adopted by reference.** (a) The following provisions of 40 C.F.R. Part 60 (Standards of Performance for New Stationary Sources), revised as of **February 1, 2016** [MARCH 19, 2014], are adopted by reference as they apply to a Title V source:

...

18 AAC 50.040(a)(2) is amended by adding new paragraphs to read:

**(XX) Subpart TTTT (Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units);**

**(YY) Subpart UUUU (Emission Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units);**

...

18 AAC 50.040(b) is amended to read:

(b) The following provisions of 40 C.F.R. Part 61 (National Emission Standards for Hazardous Air Pollutants), revised as of **July 1, 2015** [FEBRUARY 27, 2014], are adopted by reference as they apply to a Title V source:

...

18 AAC 50.040(c) is amended to read:

(c) The following provisions of 40 C.F.R. Part 63 (National Emission Standards for Hazardous Air Pollutants), revised as of **February 1, 2016** [FEBRUARY 27, 2014], are adopted by reference as they apply to a Title V source:

...

18 AAC 50.040(d) is amended to read:

(d) The provisions of 40 C.F.R. Part 82, revised as of **July 1, 2015** [JULY 22, 2013], are adopted by reference to the extent that they apply to a Title V source.

...

18 AAC 50.040(e) is amended to read:

(e) The requirements of 40 C.F.R. 52.70 - 40 C.F.R. 52.98, revised as of **July 1, 2015** [JULY 1, 2014], as they apply to a Title V source and for purposes of a Title V permit, are adopted by reference.

...

18 AAC 50.040(f) is amended to read:

(f) The provisions of 40 C.F.R. Part 51, Appendix W (Guideline on Air Quality Models), revised as of **July 1, 2015** [JULY 1, 2013], are adopted by reference.

...

18 AAC 50.040(g) is amended to read:

(g) The following provisions of 40 C.F.R. Part 62 (Approval and Promulgation of State Plans for Designated Facilities and Pollutants), revised as of **July 1, 2015** [SEPTEMBER 6, 2013], are adopted by reference as they apply to a Title V source:

...

18 AAC 50.040(g)(3) is amended to read:

(3) Subpart HHH (Federal Plan Requirements for Hospital/Medical/Infectious Waste Incinerators Constructed on or Before **December 1, 2008** [JUNE 20, 1996]);

...

18 AAC 50.040(h) is amended to read:

(h) The following provisions of 40 C.F.R. 51.166 (Prevention of Significant Deterioration of Air Quality) and 40 C.F.R. Part 52 (Approval and Promulgation of Implementation Plans), revised as of **August 19, 2015** [DECEMBER 9, 2013], are adopted by reference:

...

18 AAC 50.040(i) is amended to read:

(i) From the following provisions of 40 C.F.R. 51.165 (Permit Requirements), revised as of **July 1, 2015** [JULY 1, 2013], text setting out provisions that a state implementation plan shall or may contain is adopted by reference as follows:

...

18 AAC 50.040(j) is amended to read:

(j) The following provisions of 40 C.F.R. Part 71 (Operating Permits), revised as of **July 1, 2015** [JULY 1, 2013], are adopted by reference as they apply to a Title V source, except as provided in 18 AAC 50.326:

...

18 AAC 50.040(k) is amended to read:

(k) The provisions of 40 C.F.R. Part 64, revised as of **July 1, 2015** [JULY 1, 2013], are adopted by reference to the extent that they apply to a Title V source.

(Eff. 1/18/97, Register 141; am 6/14/98, Register 146; am 6/21/98, Register 146; am 7/2/2000, Register 154; am 6/1/2002, Register 162; am 8/15/2002, Register 163; am 10/1/2004, Register 171; am 12/3/2005, Register 176; am 7/25/2008, Register 187; am 12/9/2010, Register 196; am 9/14/2012/ Register 203; am 1/4/2013, Register 205; am 10/6/2013, Register 208; am 11/9/2014, Register 212; am 4/17/2015, Register 214; am \_\_/\_\_/\_\_\_\_, Register \_\_\_\_)

**Authority:** AS 46.03.020                      AS 46.14.020                      AS 46.14.030  
AS 46.14.010

18 AAC 50.055(a)(2) and (3) are repealed:

(2) repealed \_\_/\_\_/\_\_\_\_ [MORE THAN 30 PERCENT AVERAGED OVER ANY SIX CONSECUTIVE MINUTES FOR FUEL-BURNING EQUIPMENT IN OPERATION BEFORE NOVEMBER 1, 1982, AND USING MORE THAN 20 PERCENT WOODWASTE AS FUEL;]

(3) repealed \_\_/\_\_/\_\_\_\_ [MORE THAN 55 PERCENT FOR A UREA PRILLING TOWER IN OPERATION BEFORE JULY 1, 1972, AVERAGED OVER ANY SIX CONSECUTIVE MINUTES, NOR MORE THAN 40 PERCENT, BASED ON A DAILY 24-HOUR AVERAGE OF FIVE-SECOND MEASUREMENTS BY CONTINUOUS OPACITY MONITORING INSTRUMENTATION APPROVED BY THE DEPARTMENT AND THAT CONFORMS TO PERFORMANCE SPECIFICATION NUMBER 1 IN 40 C.F.R. PART 60, APPENDIX B, ADOPTED BY REFERENCE IN 18 AAC 50.040;]

...

18 AAC 50.055(a)(7) and (8) are repealed:

(7) repealed \_\_/\_\_/\_\_\_\_ [10 PERCENT OR GREATER AVERAGED OVER ANY SIX CONSECUTIVE MINUTES FOR PROCESS EMISSIONS, OTHER THAN FROM A KILN, AT A PORTLAND CEMENT PLANT CONSTRUCTED OR MODIFIED AFTER NOVEMBER 1, 1982];

(8) repealed \_\_/\_\_/\_\_\_\_ [20 PERCENT OR GREATER AVERAGED OVER ANY SIX CONSECUTIVE MINUTES FOR A KILN CONSTRUCTED OR MODIFIED AT A PORTLAND CEMENT PLANT AFTER NOVEMBER 1, 1982;] and

...

18 AAC 50.055(b)(4) is repealed:

(4) repealed \_\_/\_\_/\_\_\_\_ [0.15 GRAINS FOR FUEL-BURNING EQUIPMENT IN OPERATION BEFORE NOVEMBER 1, 1982, AND USING MORE THAN 20 PERCENT WOODWASTE AS FUEL;]

...

18 AAC 50.055(b)(6) is repealed:

(6) repealed \_\_/\_\_/\_\_\_\_ [0.04 GRAINS FOR A UREA PRILLING TOWER].

...

18 AAC 50.055(f) is repealed:

(f) Repealed \_\_/\_\_/\_\_\_\_. [AT A PORTLAND CEMENT PLANT, EMISSIONS FROM THE FOLLOWING SOURCES, IF CONSTRUCTED OR MODIFIED AFTER NOVEMBER 1, 1982, MAY NOT EXCEED THE FOLLOWING:

(1) FOR A CLINKER COOLER, 0.050 KILOGRAMS OF PARTICULATE MATTER PER 1,000 KILOGRAMS OF FEED ON A DRY BASIS TO THE KILN; AND

(2) FOR A KILN, 0.15 KILOGRAMS OF PARTICULATE MATTER PER 1,000 KILOGRAMS OF FEED ON A DRY BASIS.]

(Eff. 1/18/97, Register 141; am 6/21/98, Register 146; am 11/4/99, Register 152; am 5/3/2002, Register 162; am 10/1/2004, Register 171; am 7/25/2008, Register 187; am 12/9/2010, Register 196; am \_\_/\_\_/\_\_\_\_, Register \_\_\_\_)

**Authority:** AS 46.03.020 AS 46.14.020 Sec. 30, ch. 74, SLA 1993  
AS 46.14.010 AS 46.14.030

18 AAC 50.060 is repealed:

**18 AAC 50.060. Pulp mills.** Repealed. [AVERAGE EMISSIONS PER TON OF AIR DRIED PULP PRODUCED FROM A SULFITE PULP MILL MAY NOT EXCEED, IN ANY 24-HOUR PERIOD,

(1) 20 POUNDS OF SULFUR OXIDES (EXPRESSED AS SULFUR DIOXIDE) FROM BLOW PITS, WASHER VENTS, STORAGE TANKS, DIGESTER RELIEF SYSTEMS, AND RECOVERY SYSTEMS; AND

(2) TWO POUNDS OF PARTICULATE MATTER FROM BLOW PITS, WASHER VENTS, STORAGE TANKS, DIGESTER RELIEF SYSTEMS, AND RECOVERY SYSTEMS.] (Eff. 1/18/97, Register 141; repealed \_\_/\_\_/\_\_\_\_, Register \_\_\_\_)

**Authority:** AS 46.03.020 AS 46.14.020 Sec. 30, ch. 74, SLA 1993  
AS 46.14.010 AS 46.14.030

18 AAC 50.215(a)(3) is amended to read:

(3) EPA's *Meteorological Monitoring Guidance for Regulatory Modeling Applications*, adopted by reference in 18 AAC 50.035(a), **EPA's Quality Assurance Handbook for Air Pollutant Measurement Systems; Volume IV; Meteorological Measurements Version 2.0, adopted by reference in 18 AAC 50.035(a)**, and the department's *Quality Assurance Project Plan for the State of Alaska Air Monitoring & Quality Assurance Program*, adopted by reference in 18 AAC 50.030, for meteorological data; or

(Eff. 1/18/97, Register 141; am 6/21/98, Register 146; am 10/1/2004, Register 171; am 7/25/2008, Register 187; am 4/1/2010, Register 193; am 10/29/2010, Register 196; am 9/17/2011, Register 199; am 9/14/2012, Register 203; am 1/4/2013, Register 205; am 4/17/2015, Register 214; am \_\_/\_\_/\_\_\_\_, Register \_\_\_\_)

**Authority:** AS 46.03.020 AS 46.14.140 Sec. 30, ch. 74, SLA 1993  
AS 46.14.030 AS 46.14.180

18 AAC 50.345(o) is amended to read:

(o) Within 60 days after completing a source test, the permittee shall submit **one certified copy** [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 certify the results in the manner set out in (j) of this section. If requested in writing by the department, the permittee must provide preliminary results in a shorter period of time specified by the department.

(Eff. 1/18/97, Register 141; am 6/21/98, Register 146; am 5/3/2002, Register 162; am 10/1/2004, Register 171; am 11/9/2008; am 9/14/2012, Register 203; am \_\_/\_\_/\_\_\_\_; Register \_\_\_\_)

**Authority:** AS 46.03.020 AS 46.14.120 AS 46.14.140  
AS 46.14.010 AS 46.14.130 AS 46.14.180  
AS 46.14.020



18 AAC 50.346(b) is amended to read:

(b) In a Title V permit, the department will use the standard permit conditions listed in this subsection, unless the department determines that emission unit-specific or stationary source-specific conditions more adequately meet the requirements of this chapter or that no comparable condition is appropriate for the Title V source or emission unit. The following standard permit conditions prepared by the department are adopted by reference:

- (1) Standard Permit Condition I – Emission Fees, as revised as of *{adoption date of the regulations}* [SEPTEMBER 27, 2010];
- (2) Standard Permit Condition III – Excess Emissions and Permit Deviation Reports, as revised as of September 27, 2010;
- (3) Standard Permit Condition IV – Notification Form, as revised as of September 27, 2010;
- (4) Standard Operating Permit Condition V – Insignificant Sources, as revised as of September 27, 2010;
- (5) Standard Operating Permit Condition VI – Good Air Pollution Control Practices, as revised as of August 25, 2004;
- (6) Standard Operating Permit Condition VII – Operating Reports, as revised as of *{adoption date of the regulations}* [SEPTEMBER 27, 2010].
- (7) Standard Operating Permit Conditions XIV – Document Submittals and Electronic Copies, as revised as of August 20, 2008;
- (8) Standard Operating Permit Condition XV – Emission Inventory Reporting, as revised as of *{adoption date of the regulations}* [SEPTEMBER 27, 2010];
- (9) Standard Operating Permit Condition XVI – Emission Inventory Reporting Form, as revised as of *{adoption date of the regulations}* [SEPTEMBER 27, 2010].

(Eff. 5/3/2002, Register 162; am 10/1/2004, Register 171; am 11/9/2008, Register 188; am 12/9/2010, Register 196; am \_\_/\_\_/\_\_\_\_, Register \_\_\_\_)

|                   |              |              |              |
|-------------------|--------------|--------------|--------------|
| <b>Authority:</b> | AS 46.03.020 | AS 46.14.120 | AS 46.14.180 |
|                   | AS 46.14.010 | AS 46.14.130 | AS 46.14.250 |
|                   | AS 46.14.020 | AS 46.14.140 |              |

18 AAC 50.410(a) is amended to read:

**18 AAC 50.410. Emission fees.** (a) For each period from July 1 through the following June 30, the permittee, owner, or operator shall pay to the department an annual emission fee based on the stationary source’s assessable emissions for that year for each stationary source that is subject to a permit under this chapter. The emissions fee is assessed per ton for each air

pollutant for which projected emissions are 10 tons per year or greater[, EXCEPT AS LIMITED UNDER AS 46.14.250(e)].

...

18 AAC 50.410(c) is amended to read:

(c) The quantity of emissions for which fees will be assessed is the lesser of the stationary source's

(1) potential to emit; or

(2) projected annual rate of emissions, as that term is used in AS 46.14.250, **when [IF] demonstrated by credible evidence of actual emissions based upon the most representative information available among**

(A) an enforceable test method described in 18 AAC 50.220;

(B) material balance calculations;

(C) emission factors from EPA's *Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources*, adopted by reference in 18 AAC 50.035; or

(D) other methods and calculations approved by the department.

(Eff. 1/18/97, Register 141; am 5/3/2002, Register 162; am 10/16/2003, Register 168; am 10/1/2004, Register 171; am 1/29/2005, Register 173; am 12/3/2005, Register 176; am 12/14/2006, Register 180; am 6/18/2009, Register 190; am 7/1/2010, Register 194; add'l am 7/1/2010, Register 194; am 9/26/2015, Register 215; am \_\_/\_\_/\_\_\_\_; Register \_\_\_\_)

**Authority:** AS 44.46.025 AS 46.14.140 AS 46.14.250  
AS 46.03.020

18 AAC 50.502(c) is amended by adding a new paragraph to read;

(v) 10 TPY of direct PM-2.5 emissions;

**(4) beginning a physical change to or a change in the method of operation of an existing stationary source with a potential to emit an air pollutant that is less than an amount listed in (1) of this subsection that will cause for that pollutant an emissions increase calculated at the discretion of the owner or operator as either an increase in**

**(A) potential to emit that is greater than**

**(i) 15 TPY of PM-10**

**(ii) 40 TPY of sulfur dioxide;**

**(iii) 40 TPY of nitrogen oxides;**

**(iv) 100 TPY of carbon monoxide for a stationary source within 10 kilometers of a carbon monoxide nonattainment area; or**

**(v) 10 TPY of direct PM-2.5 emissions; or**

**(B) actual emissions and a net emissions increase greater than**

**(i) 15 TPY of PM-10**

**(ii) 40 TPY of sulfur dioxide;**

**(iii) 40 TPY of nitrogen oxides;**

**(iv) 100 TPY of carbon monoxide for a stationary source within 10 kilometers of a carbon monoxide nonattainment area; or**

**(v) 10 TPY of direct PM-2.5 emissions.**

(Eff. 10/1/2004, Register 171; am 12/1/2004, Register 172; am 12/3/2005, Register 176; am 7/25/2008, Register 187; am 12/9/2010, Register 196; am 1/4/2013, Register 205; am 11/9/2014, Register 212; am \_\_/\_\_/\_\_\_\_, Register \_\_\_\_)

|                   |              |              |              |
|-------------------|--------------|--------------|--------------|
| <b>Authority:</b> | AS 46.03.020 | AS 46.14.120 | AS 46.14.170 |
|                   | AS 46.14.010 | AS 46.14.130 | AS 46.14.180 |
|                   | AS 46.14.020 | AS 46.14.140 |              |

18 AAC 50.542(b)(5) is amended to read:

(5) [IF THE APPROVAL CRITERIA OF (F) OF THIS SECTION ARE MET,] the department will issue **its** [THE] permit **determination in accordance with the approval criteria of (f) of this section** within 30 days after receiving **a complete** [THE] application.

...

18 AAC 50.542(d)(1) is amended by adding a new subparagraph to read:

(E) the department will make a preliminary decision to approve the application only if the application includes all information required by 18 AAC 50.540, and the department finds that the approval criteria of (f) of this section will be met; the department will include in a preliminary permit any conditions necessary to assure compliance with this chapter; **and**

**(F) the department will request public comment on any alternative modeling approvals issued under 18 AAC 50.215(c)(2);**

(Eff. 10/1/2004, Register 171; am 12/1/2004, Register 172; am 7/25/2008, Register 187; am 12/9/2010, Register 196; am 1/4/2013, Register 205; am \_\_/\_\_/\_\_\_\_, Register \_\_\_\_)

|                   |              |              |              |
|-------------------|--------------|--------------|--------------|
| <b>Authority:</b> | AS 46.03.020 | AS 46.14.120 | AS 46.14.170 |
|                   | AS 46.14.010 | AS 46.14.130 | AS 46.14.180 |
|                   | AS 46.14.020 | AS 46.14.140 | AS 46.14.200 |