



THE STATE  
of **ALASKA**  
GOVERNOR MIKE DUNLEAVY

**Department of  
Environmental Conservation**

OFFICE OF THE COMMISSIONER

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December 13, 2019

Mr. Chris Hladick  
U.S. EPA Region 10  
Regional Administrator's Office, RA-210  
1200 Sixth Avenue, Suite 900  
Seattle, WA 98101

Subject: SIP Submittal of Fairbanks Serious SIP Requirements – DEC Priority

Dear Mr. Hladick:

This letter provides amendments to Alaska's State Air Quality Control Plan or State Implementation Plan (SIP) to meet the Serious nonattainment area planning requirements for the Fairbanks North Star Borough fine particulate matter (PM<sub>2.5</sub>) area, adopted by reference into Alaska Administrative Code (AAC) at 18 AAC 50.030 and amendments to 18 AAC 50, Air Quality Control regulations, with an effective date of January 8, 2020. Specific provisions are submitted for EPA approval, while other provisions are included for informational purposes only, to show a complete record of the rulemaking.

On December 9, 2019, the Lt. Governor signed and filed the following changes to the Alaska Department of Environmental Conservation's (DEC) regulations in 18 AAC 50:

- Amend 18 AAC 50.030 to adopt revisions to the State Air Quality Control Plan by
  - adding a new section: Volume II, Section III.D.7: Fairbanks North Star Borough (FNSB) Fine Particulate Matter (PM-2.5) Serious State Implementation Plan (SIP); and
  - amending Volume III Appendix to Volume II, Section II to incorporate the proposed regulations after public review and comment. This appendix within the State Air Quality Control Plan contains the state's air quality regulations.
- Amend 18 AAC 50.075 to add requirements regarding visible emissions.
- Amend 18 AAC 50.076 to add requirements for wood sellers.
- Amend 18 AAC 50.077 to add requirements for wood-fired heating devices within a serious nonattainment area.
- Add a new section 18 AAC 50.078 to include new control measures related to diesel fuel use and smaller commercial sources of PM-2.5 within a serious nonattainment area.
- Amend 18 AAC 50.079 to add requirements for coal-fired heating devices.
- Amend 18 AAC 50.990 to add definitions.

DEC is submitting the Fairbanks Serious SIP Requirements amendments to EPA for approval today. Please note that there is a new section in 18 AAC 50 addressing additional control measures for a Serious PM-2.5 Nonattainment area, 18 AAC 50.078; and that 18 AAC 50.077 has been repealed and readopted because the section was significantly restructured and reordered. Note that this SIP submission includes revisions to regulations that have previously been submitted by Alaska to EPA as a SIP revision, and on which EPA has not yet taken final action. By this letter, DEC is withdrawing all previous versions of any regulation that has been revised in this SIP submission and on which EPA has not taken final action, and requests that EPA take action only on the most recent version of such regulation. The previous versions of such regulations will no longer be in effect as a matter of state law on January 8, 2020. Additionally, DEC requests the withdrawal of 18 AAC 50.079(e) (state effective date: September 15, 2018) from the previous SIP submittal for approval. Changes to the following revised sections of 18 AAC 50 are being submitted for approval:

- 18 AAC 50.075(e) – (f)
- 18 AAC 50.076 section heading and (d) – (e), (g), and new subsections (j) – (l)
- 18 AAC 50.077(a) – (f) and (h) – (p) (repealed and readopted)
- 18 AAC 50.078 (new section);
- 18 AAC 50.079(b) – (d) and new subsections (f) – (g); and
- 18 AAC 50.990 new paragraphs (152) – (155).

We will submit the following documents via the EPA's SPeCS system. Modeling files will be submitted on an external hard drive, and additional documents may be submitted on the same hard drive if they are too large for or of a file type that is not compatible with the SPeCS system. If requested, we can provide one paper copy and one electronic version of the following documents to Matt Jentgen of your staff (note that the electronic version would be an exact duplicate of the paper copy):

- Lt. Governor's certified Filing Certificate for Permanent Regulations, including Signed Adoption Order and Memorandum of Filed Permanent Regulations, signed on December 9, 2019, with an effective date of regulations of January 8, 2020;
- Notice of Public Comment Period, signed May 10, 2019;
- Affidavit of Notice of Proposed Adoption of Regulations and Furnishing of Additional Information, signed November 19, 2019;
- Affidavit of Publication for the Public Notice, Anchorage Daily News, signed May 14, 2019;
- Supplemental Notice of Public Comment Period, signed May 21, 2019;
- Affidavit of Publication for the Supplemental Public Notice, Anchorage Daily News, signed May 22, 2019;
- Public Review Draft of 18 AAC 50 regulations which shows the changes made to the regulations, with bold lettering as new language and bracketed language as old language, dated May 10, 2019;
- Affidavit of Fairbanks Oral Hearings, signed July 12, 2019;
- Response To Comments, November 19, 2019;
- Affidavit of Agency Record of Public Comment, signed November 19, 2019;
- Adoption Draft of 18 AAC 50 regulations, dated November 19, 2019;
- A copy of the regulation amendments prepared by the Department of Law for transmittal to the Lt. Governor for certification and filing, with Register 233, April 2020, handwritten edits;

- Volume II: Analysis of Problems, Control Actions; Section II. State Air Quality Control Program, Volume III: Appendices
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.1 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Executive Summary, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.2 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Background and Overview of PM<sub>2.5</sub> Rule, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.3 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Nonattainment Area Boundary and Design Episode Selection, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.4 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Ambient Air Quality Data and Trends, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.5 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: PM<sub>2.5</sub> Network and Monitoring Program, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.6 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Emission Inventory Data, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.7 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Control Strategies, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.8 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Modeling, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.9 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Attainment Demonstration – 2024 & 2029, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.10 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Reasonable Further Progress and Quantitative Milestones, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.11 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Contingency Measures, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.12 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Fairbanks Emergency Episode Plan, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.13 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Assurance of Adequacy, adopted November 19, 2019;
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.14 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Air Quality Conformity and Motor Vehicle Emission Budget, adopted November 19, 2019;

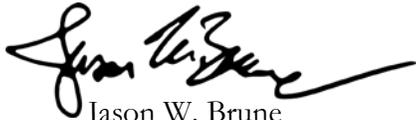
- Volume II Section III: Areawide Pollutant Control Program: Section III.D.7.15 Fairbanks North Star Borough Fine Particulate Matter (PM<sub>2.5</sub>) Serious Area Attainment Plan: Acronyms and Abbreviations, adopted November 19, 2019;
- Volume III: Appendix III.D.7.02: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate Matter; 7. Fairbanks North Star Borough PM<sub>2.5</sub> Control Plan, Serious Requirements, adopted November 19, 2019;
- Volume III: Appendix III.D.7.03: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate Matter; 7. Fairbanks North Star Borough PM<sub>2.5</sub> Control Plan, Serious Requirements, adopted November 19, 2019;
- Volume III: Appendix III.D.7.04: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate Matter; 7. Fairbanks North Star Borough PM<sub>2.5</sub> Control Plan, Serious Requirements, adopted November 19, 2019;
- Volume III: Appendix III.D.7.05: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate Matter; 7. Fairbanks North Star Borough PM<sub>2.5</sub> Control Plan, Serious Requirements, adopted November 19, 2019;
- Volume III: Appendix III.D.7.06: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate Matter; 7. Fairbanks North Star Borough PM<sub>2.5</sub> Control Plan, Serious Requirements, adopted November 19, 2019, and Emission Inventory Worksheet Excel file;
- Volume III: Appendix III.D.7.07: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate Matter; 7. Fairbanks North Star Borough PM<sub>2.5</sub> Control Plan, Serious Requirements (this appendix will submitted as 6 separate documents), adopted November 19, 2019, and 46 supporting documents as Excel files;
- Volume III: Appendix III.D.7.08: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate Matter; 7. Fairbanks North Star Borough PM<sub>2.5</sub> Control Plan, Serious Requirements, (this appendix will submitted as 2 separate documents), adopted November 19, 2019, and 4 supporting modeling technical data documents as Excel files;
- Volume III: Appendix III.D.7.09: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate Matter; 7. Fairbanks North Star Borough PM<sub>2.5</sub> Control Plan, Serious Requirements, adopted November 19, 2019, and the Control Measure Benefits Calculation Spreadsheet, November 18, 2019 (Attainment Demonstration 2024 & 2029 Worksheet) Excel file;
- Volume III: Appendix III.D.7.10: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate Matter; 7. Fairbanks North Star Borough PM<sub>2.5</sub> Control Plan, Serious Requirements, adopted November 19, 2019, and the Control Measure Benefits Calculation Spreadsheet, November 18, 2019 (Reasonable Further Progress Worksheet) (part of the same Excel file submitted for Volume III: Appendix III.D.7.09);
- Volume III: Appendix III.D.7.13: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate

Matter; 7. Fairbanks North Star Borough PM2.5 Control Plan, Serious Requirements, adopted November 19, 2019; and

- Volume III: Appendix III.D.7.14: Appendix to Volume II. Analysis of Problems, Control Actions; Section III. Area-wide Pollutant Control Program; D. Particulate Matter; 7. Fairbanks North Star Borough PM2.5 Control Plan, Serious Requirements, adopted November 19, 2019, and 18 supporting documents as XLSX, XML, and XLS documents (a further 9 BAT and MRS files will be submitted on the external hard drive with the modeling files).

Alice Edwards is available to your staff to respond to questions or to otherwise assist. She can be reached at (907) 465-5109. As always, I would be pleased to discuss any of this with you.

Sincerely,



Jason W. Brune  
Commissioner

cc: Krishna Viswanathan, Director, Office of Air and Waste, EPA Region 10  
Debra Suzuki, Office of Air and Waste, EPA Region 10  
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