

**Alaska Department of Environmental Conservation  
Air Quality Minor Permit Application**



**STATIONARY SOURCE IDENTIFICATION FORM**

**Section 1 Stationary Source Information**

Name: Chena Power Plant		SIC: 4900	
Project Name (if different): Serious PM <sub>2.5</sub> SIP		Contact: Charles "Chilkoot" Ward, Plant Superintendent	
Physical Address: 1206 1 <sup>st</sup> Avenue		City: Fairbanks	State: AK
		Zip: 99701	
		Telephone: (907) 452-7107	
		E-Mail Address: cward@auroraenergyak.com	
UTM Coordinates (m) or Latitude/Longitude:		Northing:	Eastng:
		Zone:	
		Latitude: 64° 50' 51" North	Longitude: 147° 44' 07" West

**Section 2 Legal Owner**

Name: Aurora Energy, LLC		
Mailing Address: 100 Cushman Street, Suite 210		
City: Fairbanks	State: AK	Zip: 99701
Telephone #: (907) 452-8767		
E-Mail Address: info@auroraenergyak.com		

**Section 3 Operator (if different from owner)**

Name:		
Mailing Address:		
City:	State:	Zip:
Telephone #:		
E-Mail Address:		

**Section 4 Designated Agent (for service of process)**

Name: Joseph Usibelli		
Mailing Address: P.O. Box 1000		
City: Healy	State: AK	Zip: 99743
Telephone #:		
E-Mail Address:		

**Section 5 Billing Contact Person (if different from owner)**

Name: Cynthia Pasley, Accountant		
Mailing Address: 100 Cushman Street, Suite 210		
City: Fairbanks	State: AK	Zip: 99701
Telephone #: (907) 452-8767		
E-Mail Address: cpasley@usibelli.com		

**Section 6 Application Contact**

Name: David Fish		
Mailing Address: 100 Cushman Street, Suite 210		
City: Fairbanks	State: AK	Zip: 99701
Telephone: (907) 452-8767		
E-Mail Address: dfish@usibelli.com		

**Section 7 Desired Process Method** (Check only one – see 18 AAC 50.542(a) for process descriptions and restrictions)

- Fast track for a permit classification under 18 AAC 50.502 [18 AAC 50.542(b)]
  Public comment [18 AAC 50.542(d)]

**STATIONARY SOURCE IDENTIFICATION FORM**

**Section 8 Source Classification(s)** (Check all that apply)

[18 AAC 50.502(b)]

- Asphalt Plant [≥ 5 ton per hour]
- Thermal Soil Remediation Unit [≥ 5 ton per hour]
- Rock Crusher [≥ 5 ton per hour]
- Incinerator(s) [total rated capacity ≥ 1000 lb/hour]
- Coal Preparation Plant
- Port of Anchorage Facility

If you checked any of the above, is (are) the emission unit(s)  new,  relocated\*, or  existing?

[18 AAC 50.502(c)(1)]

New or relocated\* stationary source with potential emissions greater than:

- 40 tons per year (tpy) NOx
- 40 tpy SO<sub>2</sub>
- 15 tpy PM-10
- 10 tpy PM-2.5
- 0.6 tpy lead
- 100 tpy CO in a nonattainment area

[18 AAC 50.502(c)(2)]

Construction or relocation\* of a:

- Portable oil and gas operation
- ≥10 MMBtu/hr fuel burning equipment in a SO<sub>2</sub> special protection area

\* Relocation does NOT include moving equipment from one place to another within your current stationary source boundary.

**Section 9 Modification Classification(s)** (Check all that apply)

[18 AAC 50.502(c)(3)]

- NOx Increase > 10 tpy [and existing PTE > 40 tpy]
- SO<sub>2</sub> Increase > 10 tpy [and existing PTE > 40 tpy]
- PM-10 Increase > 10 tpy [and existing PTE > 15 tpy]
- PM-2.5 Increase > 10 tpy [and existing PTE > 10 tpy]
- CO Increase > 100 tpy [and existing PTE > 100 tpy in a nonattainment area]

[18 AAC 50.502(c)(4)]

- NOx Increase > 40 tpy [and existing PTE ≤ 40 tpy]
- SO<sub>2</sub> Increase > 40 tpy [and existing PTE ≤ 40 tpy]
- PM-10 Increase > 15 tpy [and existing PTE ≤ 15 tpy]
- PM-2.5 Increase > 10 tpy [and existing PTE ≤ 10 tpy]
- CO Increase > 100 tpy [and Existing PTE ≤ 100 tpy in a nonattainment area]

Basis for calculating modification:

- Projected actual emissions minus baseline actual emissions
- New potential emissions minus existing potential emissions

**Section 10 Permit Action Request** (Check all that apply)

[18 AAC 50.508]

- Establish Plant-wide Applicability Limitation (PAL)
- Establish emission reductions to offset nonattainment pollutant
- Owner Requested Limit\* (ORL)
- Revise or Rescind Title I Permit Conditions \*  
Permit Number: PTO 9331-AA007 Condition No. N/A  
Date: September 9, 1993

\*Which to use? See <http://www.dec.state.ak.us/air/ap/docs/orlrtc.pdf>

**Section 11 Existing Permits and Limits**

For an existing stationary source, do you have an existing: (Check all that apply)

- Air quality permit Number(s)\*: AQ0315TVP04 Rev.1

- Owner Requested Limit(s) Permit Number(s):
- Pre-Approved Emission Limit (PAEL) Number(s)\*\*:

\* All active construction, Title V, and minor permit numbers.

\*\*Optional. Please provide this number if possible.

<http://dec.alaska.gov/Applications/Air/airtoolsweb/>

## STATIONARY SOURCE IDENTIFICATION FORM

### Section 12 Project Description

Provide a short narrative describing the project. Discuss the purpose for conducting this project, what emission units/activities will be added/modified under this project (i.e., project scope), and the project timeline. If the project is a modification to an existing stationary source, describe how this project will affect the existing process. Include any other discussion that may assist the Department in understanding your project or processing your application. Include a schedule of construction.

*Please use additional copies of this sheet if necessary.*

Aurora Energy, LLC (Aurora) requests a revision to Permit to Operate (PTO) 9331-AA007 under 18 AAC 50.508(6) for the Chena Power Plant stationary source to establish permit conditions as required in the Fairbanks PM<sub>2.5</sub> Nonattainment Serious State Implementation Plan (Serious SIP) adopted November 19, 2019 by the Alaska Department of Environmental Conservation (ADEC). Aurora requests that ADEC issue a new, separate Title I air quality permit to incorporate the applicable SIP and SIP Best Available Control Technology (BACT) limits as requested in Attachment A.

Provided below is a summary of the requested limits to be established as permit conditions in the Title I air quality permit. Attachment A provides more detail and addresses the requested monitoring, recordkeeping, and reporting requirements for the proposed limits and permit conditions.

- Limit the sulfur content of the coal received to 0.25 wt. pct. S no later than June 9, 2021, for EU IDs 4 through 7.
- Limit the SO<sub>2</sub> emission rate to 0.301 lb/MMBtu (3-hr average), for EU IDs 4 through 7 beginning June 9, 2021.

Attachment B provides the SO<sub>2</sub> potential emission calculations demonstrating the effect of the requested permit conditions for EU IDs 4 through 7.

Attachment C provides a copy of the PTO 9331-AA007. (The Chena Power Plant does not have an existing permit issued under the Title I air permitting program.)

**STATIONARY SOURCE IDENTIFICATION FORM**

**Section 12 Project Description Continued**

For PALs under Section 10 of this application, include the information listed in 40 C.F.R. 52.21(aa)(3), adopted by reference in 18 AAC 50.040 [18 AAC 50.540(h)].

Not Applicable

For a limit to establish offsetting emissions under Section 10 of this application, specify the physical or operational limitations necessary to provide actual emission reductions of the nonattainment air pollutant; including [18 AAC 50.540(i)]:

- A calculation of the expected reduction in actual emissions; and

Not Applicable

- The emission limitation representing that quantity of emission reduction.

Not Applicable

**STATIONARY SOURCE IDENTIFICATION FORM**

**Section 12 Project Description Continued**

For ORLs under Section 10 of this application [18 AAC 50.540(j)], include:

A description of each proposed limit, including for each air pollutant a calculation of the effect the limit will have on the stationary source's potential to emit and the allowable emissions [18 AAC 50.225(b)(4)];

Not Applicable

A description of a verifiable method to attain and maintain each limit, including monitoring and recordkeeping requirements [18 AAC 50.225(b)(5)];

Not Applicable

Citation to each requirement that the person seeks to avoid, including an explanation of why the requirement would apply in the absence of the limit and how the limit allows the person to avoid the requirement [18 AAC 50.225(b)(6)];

Not Applicable

A statement that the owner or operator of the stationary source will be able to comply with each limit [18 AAC 50.225(b)(8)];

Not Applicable

**STATIONARY SOURCE IDENTIFICATION FORM**

**Section 12 Project Description Continued**

For revising or rescinding Title I permit conditions under Section 10 of this application [18 AAC 50.540(k)], include:

An explanation of why the permit term or condition should be revised or rescinded [18 AAC 50.540(k)(2)];

Please see Attachment A.

The effect of revising or revoking the permit term or condition on [18 AAC 50. 540 (k)(3)]:

- Emissions;  
A summary is provided in Attachment B addressing effect on emissions of the proposed permit terms and conditions. Detailed emission calculations are also provided in Attachment B.
  
- Other permit terms;  
No existing permit terms would be affected by the proposed permit terms and conditions.
  
- The underlying ambient demonstration, if any;  
Not Applicable. An underlying ambient demonstration does not exist for the Chena Power Plant.
  
- Compliance monitoring; and  
Proposed compliance monitoring conditions are provided in Attachment A.

For revising a condition that allows avoidance of a permit classification, the information required for that type of permit, unless the revised condition would also allow the owner or operator to avoid the classification. [18 AAC 50.540(k)(4)]

The owner or operator is not requesting a permit condition that would avoid a permit classification.

**STATIONARY SOURCE IDENTIFICATION FORM**

**Section 13 Other Application Material**

The information listed below must be included in your air quality control minor permit application. *Note: These must be attached in order for your application to be complete.*

If required to submit an analysis of ambient air quality under 18 AAC 50.540(c)(2), or if otherwise requested by the Department:

- Attached are maps, plans, and/or aerial photographs as necessary to show the locations and distances of
  - emissions units, buildings, emitting activities and boundaries of the associated with the stationary source, and
  - nearby or adjacent residences, roads, other occupied structures and general topography within 15 kilometers.

(Indicate compass direction and scale on each.)

- Attached is a document (e.g., spreadsheet) showing coordinates and elevations of each modeled unit, along with parameters necessary to characterize each unit for dispersion modeling.

- Attached is an electronic copy of all modeling files.

**Section 14 Certification**

This certification applies to the Air Quality Control Minor Permit Application for the Chena Power Plant submitted to the Department on: 06/04/20 (Stationary Source Name)

**Type of Application**

- Initial Application
- Change to Initial Application

The application is **NOT** complete unless the certification of truth, accuracy, and completeness on this form bears the signature of a **Responsible Official**. Responsible Official is defined in 18 AAC 50.990. (18 AAC 50.205)

**CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS**

“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.”

Signature: <u>Robert Brown</u>	Date: <u>06/04/20</u>
Printed Name: Robert Brown	Title: President

**Section 15 Attachments**

- Attachments Included. List attachments:
  - Attachment A – Required Permit Application Elements
  - Attachment B – Emissions Unit Inventory and Emissions Calculations
  - Attachment C – Copy of Permit to Operate 9331-AA-007
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## **STATIONARY SOURCE IDENTIFICATION FORM**

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### **Section 16 Mailing Address**

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Submit the minor permit application to the Permit Intake Clerk in the Department's Anchorage office. Submitting to a different office will delay processing. The mailing address and phone number for the Anchorage office is:

Permit Intake Clerk  
Alaska Department of Environmental Conservation  
Air Permit Program  
555 Cordova Street  
Anchorage, Alaska 99501  
(907) 269-6881