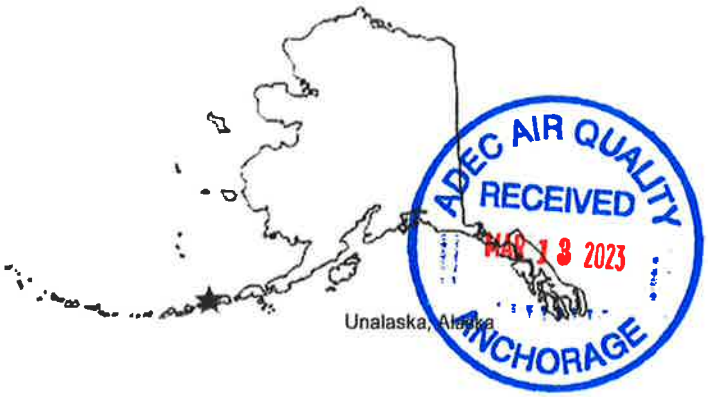
CITY OF UNALASKA
43 Raven Way - P.O. Box 610
Unalaska, Alaska 99685
TEL (907) 581-1251 FAX (907) 581-4469



March 13, 2023

Alaska Department of Environmental Conservation
Air Permit Program
555 Cordova Street
Anchorage, AK 99501

Attn: Title V Program

Re: Dutch Harbor Power Plant—Application for Renewal of Operating Permit AQ0215TVP04, Rev. 1

The City of Unalaska submits this application for an Air Quality Control (AQC) Operating Permit for the Dutch Harbor Power Plant. The stationary source currently operates under Permit AQ0215TVP04, Rev. 1 which expires on September 14, 2023. As required by 18 AAC 50.326 an application must be submitted no sooner than March 14, 2022 and no later than March 14, 2023.

Pursuant to AS 46.14.150, and 18 AAC 50.326, this application is timely. The City of Unalaska understands that completeness will be evaluated by the Alaska Department of Environmental Conservation (ADEC) according to the processes and elements established under 40 CFR 71. The application accompanying this letter utilizes the application forms required by ADEC.

Consistent with 18 AAC 50.400(a)(7) the City of Unalaska understands that we will continue to pay an annual permit administrative fee and that no other fees are required with this submittal.

Sincerely,

Steve Tompkins
Director of Public Utilities

Attachment: Dutch Harbor Power Plant Operating Permit Application

cc: EPA Region 10

City of Unalaska
Dutch Harbor Power Plant
Title V Renewal Application
AQ0215TVP04, Rev. 1

March 2023

Prepared by:

HMH Consulting, LLC

Table of Contents

Form A1 – Stationary Source General Information

FORM A1
Stationary Source (General Information)

GENERAL INFORMATION

1. Permittee:

Permittee Name: City of Unalaska, Department of Public Utilities

Mailing Address Line 1: PO Box 610

Mailing Address Line 2

City: Unalaska State: AK Zip Code: 99685

2. Stationary Source Name: Dutch Harbor Power Plant

3. Stationary Source Physical Address:

Physical Address Line 1: UTM Coordinates Zone 3, Northing 5972.6 km, Easting 399.06 km

Physical Address Line 2

City: Unalaska State: AK Zip Code: 99685

4. Location: Latitude: Longitude:

5. Primary SIC Code: 4911 SIC Code Description: Electrical Services ***Primary NAICS Code: 221112***

6. Current/Previous Title V Air Permit No.: AQ0215TVP04, Rev. 1 Expiration Date: September 14, 2023

7. Does this application contain confidential data? ☐ Yes ☒ No

8. APPLICATION IS BEING MADE FOR:

☐ Initial Title V Permit for this Stationary Source ☐ Modify Title V Permit (currently permitted) ☒ Title V Permit Renewal

9. CONTACT INFORMATION (Attach additional sheets if needed)

Owner:

Name/Title: Same as Above

Mailing Address Line 1:

Mailing Address Line 2

City: State: Zip Code:

Operator:

Name/Title: Same as Above

Mailing Address Line 1:

Mailing Address Line 2

City: State: Zip Code:

Permittee's Responsible Official:

Name/Title: Steve Tompkins, Director of Public Utilities

Mailing Address Line 1: Same As Above

Mailing Address Line 2

City: State: Zip Code:

Designated Agent:

Name/Title: Bob Cummings

Phone: (907) 581-1260

Email: BCummings@ci.unalaska.ak.us

City: State: Zip Code:

Stationary Source and Building Contact:

Name/Title: Louis Aguilar, Powerhouse Supervisor

Mailing Address Line 1: Same as above

Mailing Address Line 2

City: State: Zip Code:

Phone: (907) 581-1831 ext. 1 Email: LAguilar@ci.unalaska.ak.us

Fee Contact:

Name/Title: Erin Enlow

Mailing Address Line 1: Same as above

Mailing Address Line 2

City: State: Zip Code:

Phone: (907) 581-1260 Email: EEnlow@ci.unalaska.ak.us

Permit Contact:

Name/Title: Steve Tompkins, Director of Public Utilities

Mailing Address Line 1: Same as Above

Mailing Address Line 2

City: State: Zip Code:

Phone: (907) 581-1260 Email: stompkins@ci.unalaska.ak.us

Person or Firm that Prepared Application:

Name/Title: Donna Celia, HMH Consulting, LLC

Mailing Address Line 1: 200 W. 34th Avenue

Mailing Address Line 2 PMB 253

City: Anchorage State: AK Zip Code: 99503

Phone: 907-231-2484 Email: Donna@hmhconsulting.org

10. STATEMENT OF 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.

Name of Responsible Official (typed): Steve Tompkins Title: Director of Public Utilities

X Signature (blue ink): Stephen J. Tompkins Date: 3/12/2023

Form A2 - Stationary Source Description

FORM A2
Stationary Source Description

Permit Number: AQ0215TVP04, Rev. 1

1.	Stationary Source Description (a thorough description of the stationary source, its processes, raw materials, operating scenarios, and other specific information that may be necessary to determine the applicability of Title V requirements.) The information may include property area or map, number of employees, maximum capacity, and other primary emission-generating activities co-located or on adjacent properties. Dutch Harbor Power Plant (DHPP) is a diesel electric power utility that consists of seven engines. The facility combusts diesel fuel in reciprocating internal combustion engines to produce electricity.	
2.	Nonattainment area [yes/no; if yes, specify]	No
3.	Does the CAM rule [40 CFR Part 64] apply to any of the emissions units? [if yes, review the guidance provided for CAM in the Form A2 instructions for this item]	No
4.	Does the accidental release prevention regulation [40 CFR Part 68] apply to the facility? [if yes, provide the appropriate regulatory applicability document in detail.]	No

5. Attach plot plan. Please see Figure 1.

6. Attach regional map. Please see Figure 2.

7. Attach USGS map. Please see Figure 3.

Figure 1 –Dutch Harbor Power Plant Plot Plan

Figure 1: Dutch Harbor Power Plant Plot Plan

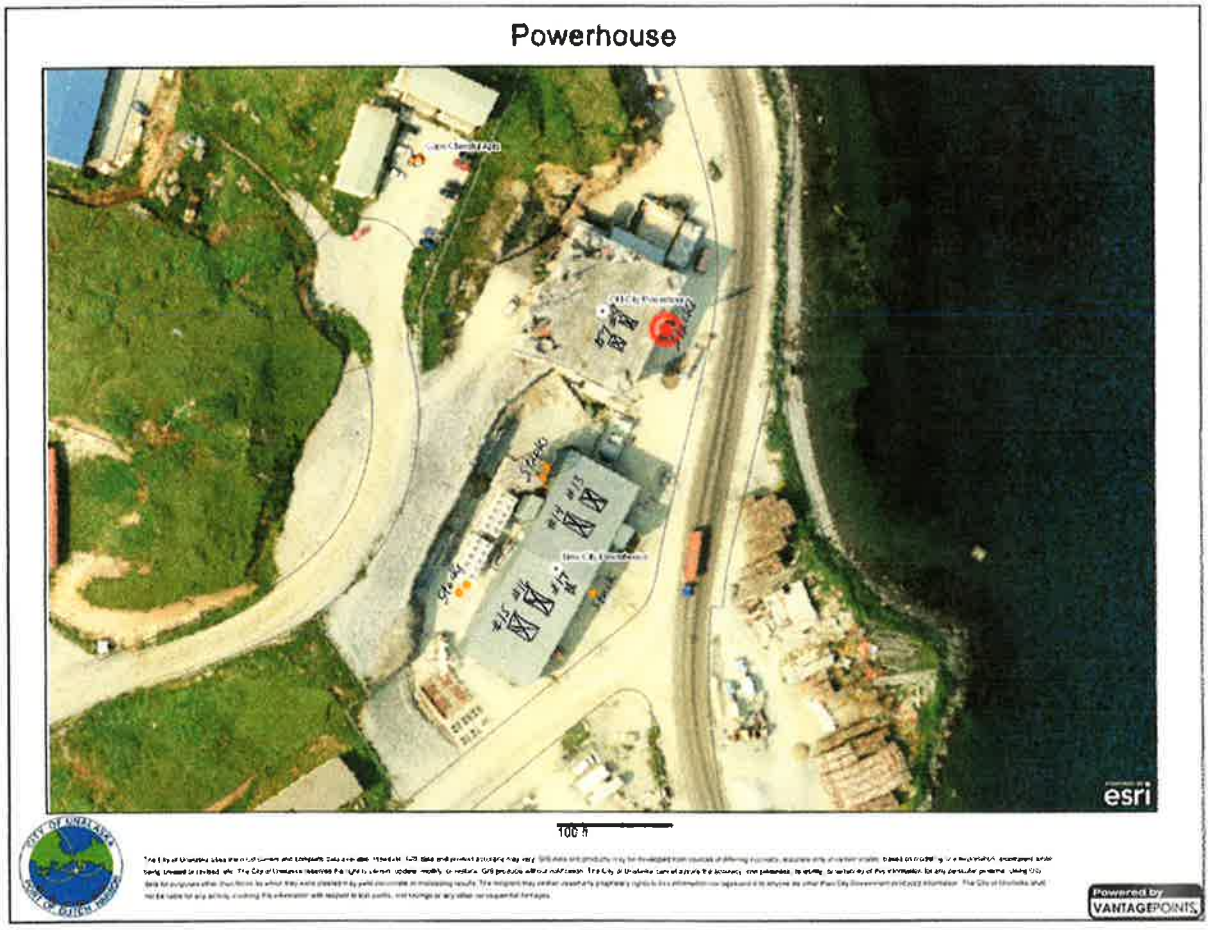


Figure 2 – Dutch Harbor and Unalaska Aerial Photo

Figure 2: Dutch Harbor and Unalaska Aerial Photo

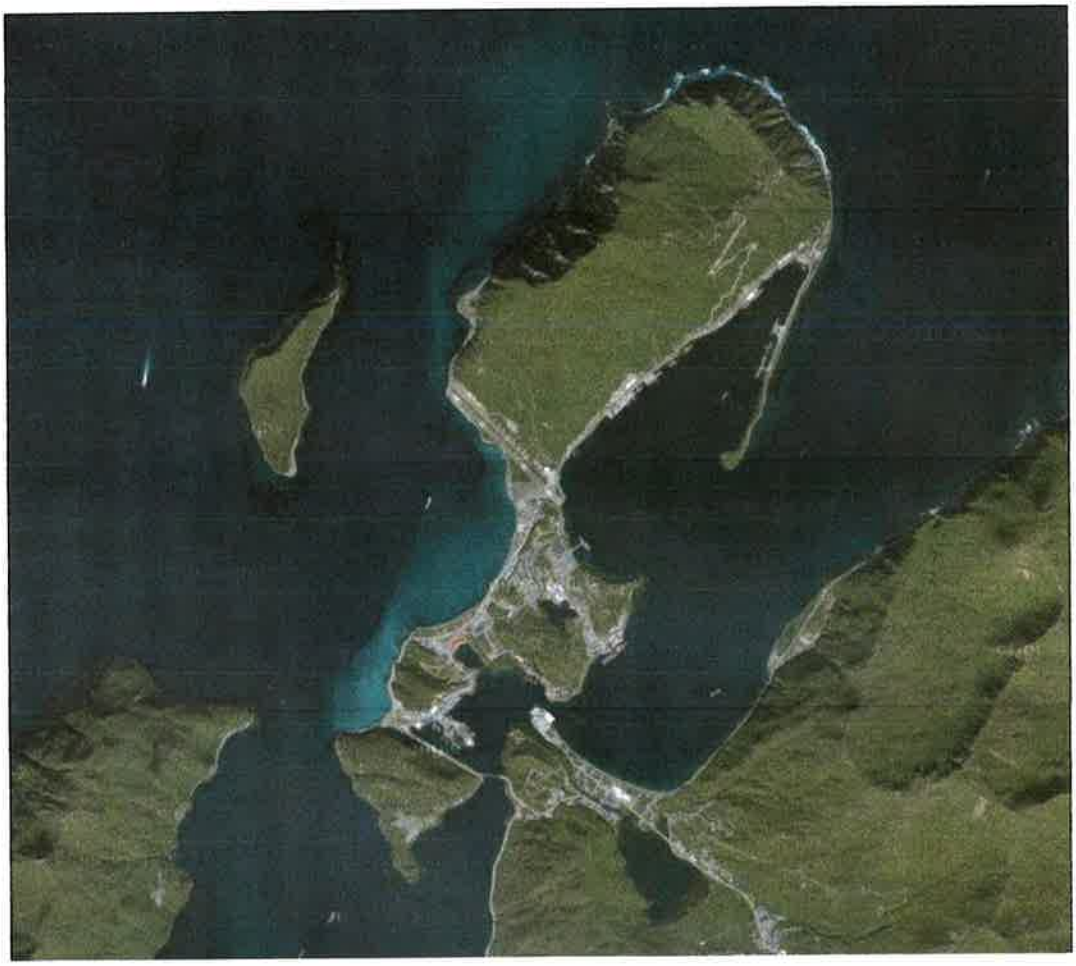


Figure 3 – Dutch Harbor and Unalaska USGS Topographical Map

Figure 3: Dutch Harbor and Unalaska USGS Topographical Map

Form A3 - Operating Scenario Description

FORM A3
Operating Scenario Description

Permit Number: AQ0215TVP04, Rev. 1

1.	Operating scenario ID	1
2.	Operating scenario description: No Seasonal variation, 8,760 hr/yr base operating scenario. Engine-specific limits apply. No alternative operating scenarios identified.	
3.	List the emissions units involved in this operating scenario.	7, 8, 13, 14, 15, 16, 17
4.	Operating schedule: hours/day	24
	days/week	7
	weeks/year	52
5.	Seasonal variation (%): December - February	None
	March – May	None
	June - August	None
	September - November	None

6. Attach process flow diagram (None attached)

Form A4 - Title V Air Operating Permit Renewal Application Information

FORM A4
Title V Air Operating Permit Renewal Application Information

Permit Number: AQ0215TVP04, Rev. 1

1.	Permit Contact: Name	Steve Tompkins
	Title	Director of Public Utilities
	Mailing Address Line 1	PO Box 610
	Mailing Address Line 2	Unalaska, AK 99685
	Phone Number	(907) 581-1260
	Email	stompkins@ci.unalaska.ak.us
2.	Were there any changes to stationary source General Information (Form A1)? If yes, complete and submit a Form A1.	Yes: Facility R.O. and points of contact have been updated.
3.	Were there any changes to the stationary source description (Form A2)? If yes, complete and submit a Form A2.	No
4.	Were there any off-permit changes? Reference any notifications provided to the Department, and attach copies of the notifications.	No
	If yes, integrate changes into renewal permit? [if no, explain]	NA
5.	Have any Alaska Title I permits been issued to the stationary source since the most recent Title V permit or revision issuance?	No
	If yes, integrate changes into renewal permit? [If yes, please list. If no, explain]	No
6.	Will there be any changes to the operating scenario(s)? [if yes, describe and attach Form A3]	No
7.	Will there be any new, modified, or reconstructed emission units or air pollution control equipment? [if yes, attach appropriate forms from Form Series B, C, D, and E]	No
8.	Are the current emissions units correctly identified and defined in the permit? [if no, attach appropriate forms from Form Series B, C, D, and E]	Yes, except that some serial numbers and installation dates were updated in the forms.
9.	Does the CAM rule [40 CFR Part 64] apply to any of the emissions units? [if yes, review the guidance provided for CAM in the Form A4 instructions for this item]	No
10.	Does the accidental release prevention regulation [40 CFR Part 68] apply to the facility? [if yes, provide the appropriate regulatory applicability document in detail.]	No
11.	Are there any other new applicable requirements? [if yes, list the new applicable requirements, emissions units, and attach the appropriate Series E Form]	No, except those that reflect ADEC's new standard conditions. Those are treated as "no changes" because this facility is not seeking any variations from the standard conditions.

12.	Are there any requested changes in the assessable potential to emit other than those identified in item 9 above? [if yes, answer the following]	Yes. Some units have updated source test emission data, which has been incorporated into the PTE calculations.
	Are the changes a result of having better emissions information such as a new emission factor from a recent source test? [if yes, complete and attach any applicable emissions forms from Series D. Attach additional information as necessary to fully document.]	Yes.
	Are the changes due to an increase in production? [if yes, complete and attach the applicable emissions form from Series D. Attach additional information as necessary to fully document.]	No
13.	Is the stationary source in compliance with all of the conditions of the current permit? If yes, attach a compliance certification. If no, attach a compliance schedule and/or actions taken for any out-of-compliance emission units.	Yes.
14.	Are there any requested changes to testing and/or monitoring conditions? [if yes, identify the condition, the requested change, and the reason. Attach additional information as necessary to fully document.]	Yes. Please correct the emission factor for EU IDs 7 and 8 appearing in Table E to AQ0215TVP04, Rev. 1. DHPP has already submitted a request to make this material correction in the current permit, submitted in September 2022.
15.	Are there any requested changes to monitoring conditions other than those being replaced by CAM? [if yes, identify the condition, the requested change, and the reason. Attach additional information as necessary to fully document.]	NA
16.	Are there any requested changes to recordkeeping conditions? [if yes, identify the condition, the requested change, and the reason. Attach additional information as necessary to fully document.]	No
17.	Are there any requested changes to reporting conditions? [if yes, identify the condition, the requested change, and the reason. Attach additional information as necessary to fully document.]	No
18.	Are there any requested changes to the non-applicable requirements (i.e. permit shield)? [if yes, identify the emission unit, the requested change, and the reason in the appropriate Series B and/or D form. If the change applies stationary source-wide, complete the appropriate Series E form. Attach additional information as necessary to fully document.]	No
19.	Are there any other requested changes to any condition? [if yes, identify the condition, the requested change, and the reason. Attach additional information as necessary to fully document.]	Yes. This application proposes revising the application of VE and PM standards in accordance with the current Standard Permit Condition IX. It also proposes several corrections to regulatory citations. Please refer to Form E-3.

FORM A4

Title V Air Operating Permit Renewal Application Information

Compliance Certification:

City of Unalaska Dutch Harbor Power Plant is currently in compliance with all applicable state and federal air quality regulations, as well as the conditions of its permit. As required by 40 CFR 71.5(c)(8)(ii)(A) and (iii)(A), the City of Unalaska Department of Public Utilities hereby states that the stationary source will continue to comply with applicable requirements with which the source is in compliance. For applicable requirements that will become effective during the permit term, the City of Unalaska Department of Public Utilities will meet such requirements on a timely basis, as specified in 40 CFR 71.5(c)(8)(ii)(B). In accordance with 71.5(c)(9)(iii), the City of Unalaska Department of Public Utilities will submit an annual compliance certification by March 31 of each year for all applicable requirements included in the Title V permit.

Statement of 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.

Steve Tompkins
Name of Responsible Official

Director of Public Utilities
Title

Stephen L Tompkins
Signature (blue ink)

3/12/2023
Date

Form B - Emission Unit Listing for this Application

FORM B
Emission Unit Listing For This Application

Permit Number: AQ0215TVP04, Rev. 1

EMISSION UNIT LISTING: New, Modified, Previously Unpermitted, Replaced, Deleted					
Emission Unit ID Number	Emission Unit Name	Brief Emission Unit Description	Rating/Size	Construction Date	Notes
Emission Units To Be ADDED By This Application (New, Previously Unpermitted, or Replacement)					
None					
Emission Units To Be MODIFIED By This Application					
None					
Emission Units To Be DELETED By This Application					
None					

SIGNIFICANT EMISSION UNIT LISTING: Title V permitted emission units that have not been modified				
Emission Unit ID Number	Emission Unit Name	Brief Emission Unit Description	Rating/Size	Construction Date
7	Genset #8	Caterpillar 3516 *(SN: 73Z00277)*	1,180 kWe	10/1989
8	Genset #9	Caterpillar 3512B *(SN: 02S19157)*	1,230 kWe	*1/1994*
13	Genset #10	Wärtsillä 12V32C (SN: PAAE012105)	5,211 kWe	June 2010
14	Genset #11	Wärtsillä 12V32C (SN: PAAE012106)	5,211 kWe	June 2010
15	Genset #13	Caterpillar C-280 (SN: NKB00148)	4,400 kWe	Dec. 20, 2011
16	Genset #12	Caterpillar C-280 (SN: NKB00331)	4,400 kWe	MY 2013
17	Genset #15	Caterpillar C-9 DITA *(SN: S9L02576)*	250 kWe	2010

Notes:
1. Minor corrections to engine serial numbers, construction dates, and ratings shown above in *italics*.
2. Construction dates given above represent the "install dates" in powerhouse records.
3. Model year (MY) given for EU 16 for the purpose of interpreting the applicability of 40 CFR 60 Subpart IIII.

INSIGNIFICANT EMISSION UNIT LISTING: Insignificant Title V permitted emission units that have not been modified				
Emission Unit Name	Brief Emission Unit Description	Rating/Size	Construction Date	Basis for Insignificant Status
NA	SmartAsh	64 lb/hr	NA	18 AAC 50.326(e)
NA	Diesel Fuel Storage Tank	10,000 gal	1948	18 AAC 50.326(e)
NA	Diesel Fuel Storage Tank	10,000 gal	1948	18 AAC 50.326(e)
NA	Diesel Fuel Storage Tank	10,000 gal	1995	18 AAC 50.326(e)
NA	Lube Oil Storage Tank	500 gal	NA	18 AAC 50.326(e)
NA	Portable Steam Cleaner	<1 MMBtu	NA	18 AAC 50.326(f)(7)

Form B1 - EU Detail Form (External Combustion Equipment), IEU Steam Cleaner

FORM B1

Emission Unit Detail Form – External Combustion Equipment (Boilers and Heaters)

Permit Number: AQ0215TVP04, Rev. 1

1.	Emission Unit ID Number // Operating Scenario	NA-Portable Steam Cleaner
2.	Date installation/construction commenced	NA
3.	Date installed	NA
4.	Emission Unit serial number	NA
5.	Special control requirements? [if yes, describe]	NA
6.	Manufacturer	
7.	Description of emission unit, including type of boiler/heater and firing method: This unit was listed in the previous Title V renewal application, and has existed at the plant for over 10 years. It is rated under 1 MMBtu/hr and it combusts diesel fuel. It is classified as an IEU under 18 AAC50.326(g)(7).	
8.	Rated design capacity (heat input, MMBtu/hr)	<1 MMBtu/hr
9.	Maximum steam production rate (lbs/hr)	
10.	Maximum steam pressure (psi)	
11.	Maximum steam temperature (°F)	

12. Fuel usage: [for EACH fuel, enter]:

Fuel	Maximum hourly firing rate (specify units)
Diesel fuel	<1 MMBtu/hr

13.	Is waste heat utilized for any purpose? If yes, describe: No.

FORM B1

Emission Unit Detail Form – External Combustion Equipment (Boilers and Heaters)

Applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Applicable Requirements*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ02105TVP03 Condition 21	18 AAC 50.055(a)(1) 18 AAC 50.055(b)(1) 18 AAC 50.055(c)	Visible Emissions Particulate Standard Sulfur Standard	20% opacity, 0.05 gr/dscf 500 ppm	Yes	Compliance based on certification in accordance with Condition 25.4

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Non-applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Permit Shield Request*):

Non-Applicable Requirements[1]	Reason for non-applicability and citation/basis

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Form B2.1 - EU Detail Form (Internal Combustion Equipment), EU ID 7

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit Number: AQ0215TVP04, Rev. 1

1.	Emission Unit ID Number // Operating Scenario	EU ID 7
2.	Date installation/construction commenced[1]	October 1989 (original install date)
3.	Date installed	
4.	Emission Unit serial number	*73Z00277* (Minor correction to serial number)
5.	Special control requirements? [if yes, describe]	
6.	Manufacturer and model number	Caterpillar 3516 DITA
7.	Type of combustion device	Internal Combustion Engine
8.	Rated design capacity (horsepower rating for engines)	1,614 hp
9.	Rated design capacity (heat input, MMBtu/hr rating for turbines)	
10.	If used for power generation, electrical output (kW)	1,180 kWe

1. See page 2 of the Form B instructions regarding installation/construction date and consult regulations under 40 C.F.R. 60 (NSPS) and 40 C.F.R. 63 (NESHAP) for applicability dates, e.g.,
- NSPS Subparts IIII and JJJJ, and NESHAP Subpart ZZZZ for engines, and
- NSPS Subparts GG and KKKK, and NESHAP Subpart YYYY for turbines.
Note that other regulations may apply in addition to the regulations cited.

11. Fuel usage: [for EACH fuel, enter]:

Fuel	Maximum hourly firing rate (specify units)
ULSD Fuel	77.04 gallons/hr

12.	Describe any specific modifications to the emission unit that must be addressed in the permit:

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Applicable Requirements*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 1	18 AAC 50.055(a)(1)	Visible Emissions (Opacity)	20% opacity, 6-minute average	Yes	Conditions 2 through 4
AQ0215TVP04 Condition 5	18 AAC 50.055(b)(1)	Particulate Matter	0.05 gr/dscf	Yes	Conditions 6 through 7
AQ0215TVP04 Condition 8	18 AAC 50.18 AAC 50.055(c)	Fuel Sulfur Standard	500 ppm, 3-hour average	Yes	Conditions 9 through 10
AQ0215TVP04 Condition 11	18 AAC 50.040(j)	Used Oil Blending	0.8% ratio of used oil to virgin fuel	Yes	Conditions 11.1 through 11.4
AQ0215TVP04 Condition 16	AQ0215MSS03, Condition 15	Protection of AAAQS, misc. pollutants, misc. averaging periods	Exhaust Stack Requirements	Yes	Condition 16.1
AQ0215TVP04 Condition 19	AQ0215MSS03, Condition 17 & 17.1	Protection of AAAQS, SO2, misc. averaging periods	Fuel Sulfur content limit of 0.01 wt%S	Yes	Condition 19.1
AQ0215TVP04 Condition 21	AQ0215MSS03, Condition 22	ORL to Avoid PSD Review for SO_2 and VOC	Limits: 46.8 TPY SO_2 51.2 TPY VOC	Yes	Conditions 21.1 through 21.2

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 22	AQ0215MSS05, Condition 10	ORL to Avoid PSD Review for PM-10	PM-10 Limit: 22.3 TPY	Yes	Conditions 22.1 through 22.6 NOTE: DHPP is requesting a correction to the emission factor for EU IDs 7 & 8 in Table E. The factor is listed as 0.573, but it should be 0.0573. Please refer to Form E-2 for a more complete explanation. NOTE: ADEC appears to have mistranscribed the condition number in the regulatory basis for this condition. The correct condition number is AQ0215MSS05 Condition 10.
AQ0215TVP04 Condition 23	AQ0215MSS05, Condition 11	ORL to Avoid PSD Review for NOx	NOx Limit: 161.7 from EU IDs 7 and 16, combined	Yes	Conditions 23.1 through 23.5 NOTE: ADEC appears to have omitted the regulatory basis for this condition from the current permit.
AQ0215TVP04 Condition 30	40 CFR 63 Subpart A	Hazardous Air Pollutants	NESHAPS General Requirements	Yes	No MR&R Conditions appear in this permit.
AQ0215TVP04 Condition 31	40 CFR 63 Subpart A	Hazardous Air Pollutants	NESHAPS General Requirements	Yes	Conditions 31.1 through 31.7

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Non-applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Permit Shield Request*):

Non-Applicable Requirements[1]	Reason for non-applicability and citation/basis
None.	

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Form B2.2 - EU Detail Form (Internal Combustion Equipment), EU ID 8

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit Number: AQ0215TVP04, Rev. 1

1.	Emission Unit ID Number // Operating Scenario	EU ID 8
2.	Date installation/construction commenced[1]	October 1994 (original install date)
3.	Date installed	
4.	Emission Unit serial number	*02S19157* (Minor correction to serial number)
5.	Special control requirements? [if yes, describe]	
6.	Manufacturer and model number	Caterpillar 3512B
7.	Type of combustion device	Internal Combustion Engine
8.	Rated design capacity (horsepower rating for engines)	1,841 hp
9.	Rated design capacity (heat input, MMBtu/hr rating for turbines)	
10.	If used for power generation, electrical output (kW)	1,230 kWe

1. See page 2 of the Form B instructions regarding installation/construction date and consult regulations under 40 C.F.R. 60 (NSPS) and 40 C.F.R. 63 (NESHAP) for applicability dates, e.g.,
- NSPS Subparts IIII and JJJJ, and NESHAP Subpart ZZZZ for engines, and
- NSPS Subparts GG and KKKK, and NESHAP Subpart YYYY for turbines.
Note that other regulations may apply in addition to the regulations cited.

11. Fuel usage: [for EACH fuel, enter]:

Fuel	Maximum hourly firing rate (specify units)
ULSD Fuel	86.62 gallons/hr

12.	Describe any specific modifications to the emission unit that must be addressed in the permit:

Applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Applicable Requirements*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 1	18 AAC 50.055(a)(1)	Visible Emissions (Opacity)	20% opacity, 6-minute average	Yes	Conditions 2 through 4
AQ0215TVP04 Condition 5	18 AAC 50.055(b)(1)	Particulate Matter	0.05 gr/dscf	Yes	Conditions 6 through 7
AQ0215TVP04 Condition 8	18 AAC 50.18 AAC 50.055(c)	Fuel Sulfur Standard	500 ppm, 3-hour average	Yes	Conditions 9 through 10
AQ0215TVP04 Condition 11	18 AAC 50.040(j)	Used Oil Blending	0.8% ratio of used oil to virgin fuel	Yes	Conditions 11.1 through 11.4
AQ0215TVP04 Condition 16	AQ0215MSS03, Condition 15	Protection of AAAQS, misc. pollutants, misc. averaging periods	Exhaust Stack Requirements	Yes	Condition 16.1
AQ0215TVP04 Condition 19	AQ0215MSS03, Condition 17 & 17.1	Protection of AAAQS, SO2, misc. averaging periods	Fuel Sulfur content limit of 0.01 wt%S	Yes	Condition 19.1
AQ0215TVP04 Condition 21	AQ0215MSS03, Condition 22	ORL to Avoid PSD Review for SO_2 and VOC	Limits: 46.8 TPY SO_2 51.2 TPY VOC	Yes	Conditions 21.1 through 21.2

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 22	AQ0215MSS05, Condition 10	ORL to Avoid PSD Review for PM-10	PM-10 Limit: 22.3 TPY	Yes	Conditions 22.1 through 22.6 NOTE: DHPP is requesting a correction to the emission factor for EU IDs 7 & 8 in Table E. The factor is listed as 0.573, but it should be 0.0573. Please refer to Form E-2 for a more complete explanation. NOTE: ADEC appears to have mistranscribed the condition number in the regulatory basis for this condition. The correct condition number is AQ0215MSS05 Condition 10.
AQ0215TVP04 Condition 30	40 CFR 63 Subpart A	Hazardous Air Pollutants	NESHAPS General Requirements	Yes	No MR&R Conditions appear in this permit.
AQ0215TVP04 Condition 31	40 CFR 63 Subpart A	Hazardous Air Pollutants	NESHAPS General Requirements	Yes	Conditions 31.1 through 31.7

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Non-applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Permit Shield Request*):

Non-Applicable Requirements[1]	Reason for non-applicability and citation/basis
None.	

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Form B2.3 - EU Detail Form (Internal Combustion Equipment), EU IDs 13-14

FORM B2
Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit Number: AQ0215TVP04, Rev. 1

1.	Emission Unit ID Number // Operating Scenario	EU ID 13 and 14
2.	Date installation/construction commenced[1]	June 2004 (commenced construction, entered purchase contract)
3.	Date installed	2010
4.	Emission Unit serial number	EU ID 13: PAAE012105 EU ID 14: PAAE012106
5.	Special control requirements? [if yes, describe]	
6.	Manufacturer and model number	Wärtsilä 12V32C
7.	Type of combustion device	Internal Combustion Engine
8.	Rated design capacity (horsepower rating for engines)	
9.	Rated design capacity (heat input, MMBtu/hr rating for turbines)	
10.	If used for power generation, electrical output (kW)	5,211 kWe

1. See page 2 of the Form B instructions regarding installation/construction date and consult regulations under 40 C.F.R. 60 (NSPS) and 40 C.F.R. 63 (NESHAP) for applicability dates, e.g.,
- NSPS Subparts IIII and JJJJ, and NESHAP Subpart ZZZZ for engines, and
- NSPS Subparts GG and KKKK, and NESHAP Subpart YYYY for turbines.
Note that other regulations may apply in addition to the regulations cited.

11. Fuel usage: [for EACH fuel, enter]:

Fuel	Maximum hourly firing rate (specify units)
ULSD Fuel	313.8

12.	Describe any specific modifications to the emission unit that must be addressed in the permit:

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Applicable Requirements*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 1	18 AAC 50.055(a)(1)	Visible Emissions (Opacity)	20% opacity, 6-minute average	Yes	Conditions 2 through 4
AQ0215TVP04 Condition 5	18 AAC 50.055(b)(1)	Particulate Matter	0.05 gr/dscf	Yes	Condition 6 through 7
AQ0215TVP04 Condition 8	18 AAC 50.18 AAC 50.055(c)	Fuel Sulfur Standard	500 ppm, 3-hour average	Yes	Conditions 9 through 10
AQ0215TVP04 Condition 11	18 AAC 50.040(j)	Used Oil Blending	0.8% ratio of used oil to virgin fuel	Yes	Conditions 10.1 through 11.4
AQ0215TVP04 Condition 12	AQ0215CPT02 Rev. 1, Condition 5	Exhaust Stack Requirements	Sample port requirements	Yes	Condition 12.1 through 12.3
AQ0215TVP04 Condition 13	AQ0215CPT02 Rev. 1, Condition 17	NOx BACT Limit	13.6 g/kWh NO_2, 3 hr average	Yes	Conditions 13.1 through 13.3
AQ0215TVP04 Condition 16	AQ0215MSS03, Condition 15	Protection of AAAQS, misc. pollutants, misc. averaging periods	Exhaust Stack Requirements	Yes	Condition 16.1

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 19	AQ0215MSS03, Condition 17 & 17.1	Protection of AAAQS, SO2, misc. averaging periods	Fuel Sulfur content limit of 0.01 wt%S	Yes	Condition 19.1
AQ0215TVP04 Condition 21	AQ0215MSS03, Condition 22	ORL to Avoid PSD Review for SO_2 and VOC	Limits: 46.8 TPY SO_2 51.2 TPY VOC	Yes	Conditions 21.1 through 21.2
AQ0215TVP04 Condition 22	AQ0215MSS05, Condition 10	ORL to Avoid PSD Review for PM-10	PM-10 Limit: 22.3 TPY	Yes	Conditions 22.1 through 22.6 NOTE: ADEC appears to have mistranscribed the condition number in the regulatory basis for this condition. The correct condition number is AQ0215MSS05 Condition 10.
AQ0215TVP04 Condition 30	40 CFR 63 Subpart A	Hazardous Air Pollutants	NESHAPS General Requirements	Yes	No MR&R Conditions appear in this permit.
AQ0215TVP04 Condition 31	40 CFR 63 Subpart A	Hazardous Air Pollutants	NESHAPS General Requirements	Yes	Conditions 31.1 through 31.7

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Non-applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Permit Shield Request*):

Non-Applicable Requirements[1]	Reason for non-applicability and citation/basis
None.	

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Form B2.4 - EU Detail Form (Internal Combustion Equipment), EU ID 15

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit Number: AQ0215TVP04, Rev. 1

1.	Emission Unit ID Number // Operating Scenario	EU ID 15
2.	Date installation/construction commenced[1]	December 20, 2011
3.	Date installed	2011
4.	Emission Unit serial number	NKB00148
5.	Special control requirements? [if yes, describe]	
6.	Manufacturer and model number	Caterpillar C-280
7.	Type of combustion device	Internal Combustion Engine
8.	Rated design capacity (horsepower rating for engines)	
9.	Rated design capacity (heat input, MMBtu/hr rating for turbines)	
10.	If used for power generation, electrical output (kW)	4,400 kWe

1. See page 2 of the Form B instructions regarding installation/construction date and consult regulations under 40 C.F.R. 60 (NSPS) and 40 C.F.R. 63 (NESHAP) for applicability dates, e.g.,
- NSPS Subparts IIII and JJJJ, and NESHAP Subpart ZZZZ for engines, and
- NSPS Subparts GG and KKKK, and NESHAP Subpart YYYY for turbines.
Note that other regulations may apply in addition to the regulations cited.

11. Fuel usage: [for EACH fuel, enter]:

Fuel	Maximum hourly firing rate (specify units)
ULSD Fuel	282.0

12.	Describe any specific modifications to the emission unit that must be addressed in the permit:

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Applicable Requirements*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 1	18 AAC 50.055(a)(1)	Visible Emissions (Opacity)	20% opacity, 6-minute average	Yes	Conditions 2 through 4
AQ0215TVP04 Condition 5	18 AAC 50.055(b)(1)	Particulate Matter	0.05 gr/dscf	Yes	Condition 6 through 7
AQ0215TVP04 Condition 8	18 AAC 50.18 AAC 50.055(c)	Fuel Sulfur Standard	500 ppm, 3-hour average	Yes	Conditions 9 through 10
AQ0215TVP04 Condition 11	18 AAC 50.326(a)	Used Oil Blending	0.8% ratio of used oil to virgin fuel	Yes	Conditions 11.1 and 11.4
AQ0215TVP04 Condition 12	AQ0215CPT02 Rev. 1, Condition 5	Exhaust Stack Requirements	Sample port requirements	Yes	Conditions 12.1 through 12.3
AQ0215TVP04 Condition 15	AQ0215MSS03, Condition 20 and 20.1	BACT Limits for EU ID 15	NOx: 9.8 g/kW-hr PM-2.5: 0.50 g/kW-hr	Yes	Condition 15.1 through 15.2
AQ0215TVP04 Condition 16	AQ0215MSS03, Condition 15	Protection of AAAQS, misc. pollutants, misc. averaging periods	Exhaust Stack Requirements	Yes	Condition 16.1
AQ0215TVP04 Condition 19	AQ0215MSS03, Condition 17 & 17.1	Protection of AAAQS, SO2, misc. averaging periods	Fuel Sulfur content limit of 0.01 wt%S	Yes	Condition 19.1

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 21	AQ0215MSS03, Condition 22	ORL to Avoid PSD Review for SO_2 and VOC	Limits: 46.8 TPY SO_2 51.2 TPY VOC	Yes	Conditions 21.1 through 21.2
AQ0215TVP04 Condition 22	AQ0215MSS05, Condition 10	ORL to Avoid PSD Review for PM-10	PM-10 Limit: 22.3 TPY	Yes	Conditions 22.1 through 22.6 NOTE: ADEC appears to have mistranscribed the condition number in the regulatory basis for this condition. The correct condition number is AQ0215MSS05 Condition 10.
AQ0215TVP04 Conditions 26-27	40 CFR 60 Subpart A	Criteria Pollutants	NSPS General Requirements	Yes	Condition 26.1 and reasonable inquiry
AQ0215TVP04 Condition 28	40 CFR 60 Subpart IIII	New Source Performance Standard	Emission standards, Fuel standards	Yes	Conditions 28.1 through 28.11
AQ0215TVP04 Condition 31	40 CFR 63 Subpart ZZZZ [§63.6590(c)]	NESHAP for Stationary RICE	Compliance with this standard is achieved through compliance with NSPS IIII	Yes	Condition 31.1

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Non-applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Permit Shield Request*):

Non-Applicable Requirements[1]	Reason for non-applicability and citation/basis
None.	

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Form B2.5 - EU Detail Form (Internal Combustion Equipment), EU ID 16

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit Number: AQ0215TVP04, Rev. 1

1.	Emission Unit ID Number // Operating Scenario	EU ID 16
2.	Date installation/construction commenced[1]	Model Year 2013
3.	Date installed	April 4, 2011 (commissioned)
4.	Emission Unit serial number	NKB00331
5.	Special control requirements? [if yes, describe]	
6.	Manufacturer and model number	Caterpillar C-280
7.	Type of combustion device	Internal Combustion Engine
8.	Rated design capacity (horsepower rating for engines)	
9.	Rated design capacity (heat input, MMBtu/hr rating for turbines)	
10.	If used for power generation, electrical output (kW)	4,416 kWe

1. See page 2 of the Form B instructions regarding installation/construction date and consult regulations under 40 C.F.R. 60 (NSPS) and 40 C.F.R. 63 (NESHAP) for applicability dates, e.g.,
- NSPS Subparts IIII and JJJJ, and NESHAP Subpart ZZZZ for engines, and
- NSPS Subparts GG and KKKK, and NESHAP Subpart YYYY for turbines.
Note that other regulations may apply in addition to the regulations cited.

11. Fuel usage: [for EACH fuel, enter]:

Fuel	Maximum hourly firing rate (specify units)
ULSD Fuel	282.0

12.	Describe any specific modifications to the emission unit that must be addressed in the permit:

Applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Applicable Requirements*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 1	18 AAC 50.055(a)(1)	Visible Emissions (Opacity)	20% opacity, 6-minute average	Yes	Conditions 2 through 4
AQ0215TVP04 Condition 5	18 AAC 50.055(b)(1)	Particulate Matter	0.05 gr/dscf	Yes	Condition 6 through 7
AQ0215TVP04 Condition 8	18 AAC 50.18 AAC 50.055(c)	Fuel Sulfur Standard	500 ppm, 3-hour average	Yes	Conditions 9 through 10
AQ0215TVP04 Condition 11	18 AAC 50.326(a)	Used Oil Blending	0.8% ratio of used oil to virgin fuel	Yes	Conditions 11.1 and 11.4
AQ0215TVP04 Condition 12	AQ0215CPT02 Rev. 1, Condition 5	Exhaust Stack Requirements	Sample port requirements	Yes	Condition 12.1 through 12.3
AQ0215TVP04 Condition 17	AQ0215MSS05, Condition 6	Protection of SO_2 AAAQS, misc. averaging periods	Exhaust Stack Requirements	Yes	Conditions 17.1 through 17.3 NOTE: ADEC appears to have omitted the regulatory basis for this condition from the current permit.
AQ0215TVP04 Condition 23	AQ0215MSS05, Condition 11	ORL to Avoid PSD Review for NOx	NOx Limit: 161.7 from EU IDs 7 and 16, combined	Yes	Conditions 23.1 through 23.5 NOTE: ADEC appears to have omitted the regulatory basis for this condition from the current permit.

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 24	AQ0215MSS05, Condition 12	ORL to Avoid PSD Review for NOx	Power Production Limit: 3,760 kWe	Yes	Conditions 24.1 through 24.3 NOTE: ADEC appears to have omitted the regulatory basis for this condition from the current permit.
AQ0215TVP04 Conditions 26-27	40 CFR 60 Subpart A	Criteria Pollutants	NSPS General Requirements	Yes	Condition 26.1 and reasonable inquiry
AQ0215TVP04 Condition 28	40 CFR 60 Subpart IIII	New Source Performance Standard	Emission standards, Fuel standards	Yes	Conditions 28.1 through 28.11
AQ0215TVP04 Condition 31	40 CFR 63 Subpart ZZZZ [§63.6590(c)]	NESHAP for Stationary RICE	Compliance with this standard is achieved through compliance with NSPS IIII	Yes	Condition 31.1

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Non-applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Permit Shield Request*):

Non-Applicable Requirements[1]	Reason for non-applicability and citation/basis
None.	

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Form B2.6 - EU Detail Form (Internal Combustion Equipment), EU ID 17

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit Number: AQ0215TVP04, Rev. 1

1.	Emission Unit ID Number // Operating Scenario	EU ID 17
2.	Date installation/construction commenced[1]	2010
3.	Date installed	2010
4.	Emission Unit serial number	*S9L0S576* (Minor correction to serial number)
5.	Special control requirements? [if yes, describe]	
6.	Manufacturer and model number	Caterpillar C-9 DITA
7.	Type of combustion device	Internal Combustion Engine
8.	Rated design capacity (horsepower rating for engines)	
9.	Rated design capacity (heat input, MMBtu/hr rating for turbines)	
10.	If used for power generation, electrical output (kW)	250 kWe

1. See page 2 of the Form B instructions regarding installation/construction date and consult regulations under 40 C.F.R. 60 (NSPS) and 40 C.F.R. 63 (NESHAP) for applicability dates, e.g.,
- NSPS Subparts IIII and JJJJ, and NESHAP Subpart ZZZZ for engines, and
- NSPS Subparts GG and KKKK, and NESHAP Subpart YYYY for turbines.
Note that other regulations may apply in addition to the regulations cited.

11. Fuel usage: [for EACH fuel, enter]:

Fuel	Maximum hourly firing rate (specify units)
ULSD Fuel	22.0 gpy

12.	Describe any specific modifications to the emission unit that must be addressed in the permit:

Applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Applicable Requirements*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 1	18 AAC 50.055(a)(1)	Visible Emissions (Opacity)	20% opacity, 6-minute average	Yes	Standard Condition IX, Condition 1.2 NOTE: This unit is restricted to 100 hours of operation in any 12-month rolling period (Cond. 18 of AQ0215TVP04, Rev. 1). Therefore, it qualifies for reduced MR&R, per Condition 1.2 of Standard Permit Condition IX.
AQ0215TVP04 Condition 5	18 AAC 50.055(b)(1)	Particulate Matter	0.05 gr/dscf	Yes	Standard Condition IX, Condition 6.3 NOTE: This unit is restricted to 100 hours of operation in any 12-month rolling period (Cond. 18 of AQ0215TVP04, Rev. 1). Therefore, it qualifies for reduced MR&R, per Condition 1.2 of Standard Permit Condition IX.
AQ0215TVP04 Condition 8	18 AAC 50.18 AAC 50.055(c)	Fuel Sulfur Standard	500 ppm, 3-hour average	Yes	Conditions 9 and 10
AQ0215TVP04 Condition 11	18 AAC 50.326(a)	Used Oil Blending	0.8% ratio of used oil to virgin fuel	Yes	Conditions 11.1 and 11.4
AQ0215TVP04 Condition 12	AQ0215CPT02 Rev. 1, Condition 5	Exhaust Stack Requirements	Sample port requirements	Yes	Conditions 12.1 through 12.3
AQ0215TVP04 Condition 14	AQ0215CPT02 Rev. 1, Condition 18.6	NOx BACT Limit	5.75 g/kW-hr	Yes	Condition 14.1

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 16	AQ0215MSS03, Condition 15	Protection of AAAQS, misc. pollutants, misc. averaging periods	Exhaust Stack Requirements	Yes	Condition 16.1
AQ0215TVP04 Condition 18	AQ0215MSS03, Condition 16 and 16.1	Protection of NO_2 Increment	Operating Limit: 100 hours per rolling 12-month period	Yes	Conditions 18.1 through 18.5
AQ0215TVP04 Condition 19	AQ0215MSS03, Condition 17 & 17.1	Protection of AAAQS, SO2, misc. averaging periods	Fuel Sulfur content limit of 0.01 wt%S	Yes	Condition 19.1
AQ0215TVP04 Condition 20	AQ0215MSS03, Condition 18 & 18.1	Protection of PM-10 increment and AAAQS for PM-2.5, misc. averaging periods	Operating Limit: 12-hours in any rolling 24-hour period	Yes	Conditions 20.1 through 20.4
AQ0215TVP04 Condition 22	AQ0215MSS05, Condition 10	ORL to Avoid PSD Review for PM-10	PM-10 Limit: 22.3 TPY	Yes	Conditions 22.1 through 22.6 NOTE: ADEC appears to have mistranscribed the condition number in the regulatory basis for this condition. The correct condition number is AQ0215MSS05 Condition 10.
AQ0215TVP04 Conditions 26-27	40 CFR 60 Subpart A	Criteria Pollutants	NSPS General Requirements	Yes	Condition 26.1 and reasonable inquiry

FORM B2

Emission Unit Detail Form - Internal Combustion Equipment (Engines and Turbines)

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 28	40 CFR 60 Subpart IIII	New Source Performance Standard	Emission standards, Fuel standards	Yes	Conditions 28.1 through 28.11
AQ0215TVP04 Condition 31	40 CFR 63 Subpart ZZZZ [§63.6590(c)]	NESHAP for Stationary RICE	Compliance with this standard is achieved through compliance with NSPS IIII	Yes	Condition 31.1

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Non-applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Permit Shield Request*):

Non-Applicable Requirements[1]	Reason for non-applicability and citation/basis
None.	

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Form B3 - EU Detail Form (Incinerators), IEU Smart Ash

FORM B3
Emission Unit Detail Form - Incinerators

Permit Number: AQ0215TVP04, Rev. 1

1.	Emission Unit ID Number // Operating Scenario	N/A - IEU
2.	Date installation/construction commenced[1]	N/A
3.	Date installed	N/A
4.	Emission Unit serial number	
5.	Special control requirements? [if yes, describe]	No
6.	Manufacturer	Elastec (or similar)
7.	Waste classification	Industrial
8.	Type of incinerator	Smart Ash burn barrel
9.	Charge information:	
	batch or continuous	Batch
	charge method	Manual
	charge measurement method	Manual
10.	Primary combustion chamber information:	
	temperature (°F)	N/A
	rated heat input (MMBtu/hr)	N/A
	type/grade fuel(s)	Non-Hazardous Waste
11.	Secondary combustion chamber information:	
	temperature (°F)	N/A
	gas residency time [attach calculations]	N/A
	rated heat input (MMBtu/hr)	N/A
	type/grade fuel(s)	N/A
12.	Automatically controlled auxiliary burners?	No
13.	Interlock system to control charging?	No
14.	Air lock system?	No
15.	Waste heat boiler?	No
16.	Maximum flue gas outlet temperature (°F)	N/A
17.	Rated capacity (tons material /day)	64 lb/hr
18.	Emergency bypass stack?	No
19.	Incinerator design efficiency (%) [attach calculations]	N/A

[1] See page 2 of the Form B instructions regarding installation/construction date and consult regulations under 40 C.F.R. 60 (NSPS) and 40 C.F.R. 63 (NESHAP) for applicability dates.

20. Incinerated materials:

Material	Origin of material	Weight percentage (%)	Heating value (Btu/lb)
Oily rags, general household trash		100	N/A

21. Attach diagram. NA

22. Attach energy balance equations for the materials incinerated. NA

FORM B3

Emission Unit Detail Form - Incinerators

Applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Applicable Requirements*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods Used to Demonstrate Compliance
AQ0215TVP04 Condition 25	18 AAC 50.055(a)(1) 18 AAC 50.055(b)(1) 18 AAC 50.055(c)	Visible emissions Particulate Standard Sulfur Standard	20% opacity, 0.05 gr/dscf 500 ppm	Yes	Compliance based on certification in accordance with Condition 25.4

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Non-applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Permit Shield Request*):

Non-Applicable Requirements[1]	Reason for non-applicability and citation/basis
None.	

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Form B4. - EU Detail Form - VOC Storage Tanks, 3 IEU Tanks, 10,000 gallons

FORM B4
Emission Unit Detail Form - VOC Storage Tanks

Stationary Source Name: Dutch Harbor Power Plant (DHPP) Permit Number: AQ0215TVP04, Rev. 1

1.	Emission Unit ID Number / Operating Scenario	NA, IEU, 3 diesel storage tanks
2.	Date installation / construction commenced	1943 (2) and 1995 (1)
3.	Date installed	1943 (2) and 1995 (1)
4.	Special control requirements? [if yes, describe]	No
5.	Manufacturer	NA
6.	Rated capacity (gallons)	10,000 gallons
7.	Tank length (ft)	-
8.	Tank diameter (ft)	-
9.	Tank age (years)	
10.	Submerged fill pipe?	
11.	Type of tank (specify)	Horizontal
12.	Underground?	No
	If underground, specify type of tube and vapor return.	
13.	Above ground vapor control information:	
	Pipe material	
	Pipe size	
	Piping drainage (continuous drain downward or condensate collection tank – if condensate collection, attach description)	
	Isolation valve installed in piping?	
14.	Pressure vacuum relief valves:	
	Vent pressure settings (psia)	
	Months in which relief valves removed (specify)	
15.	Pressure conservation vent? [if yes, specify pressure setting – psia]	
16.	Fixed roof tanks	
	Roof color	
	Shell color	Green
	Average vapor space height (ft)	N/A
	Shell condition (specify)	Good

FORM B4

Emission Unit Detail Form - VOC Storage Tanks

	Emission Unit ID Number	NA, IEU, 3 storage tanks
17	Floating roof tanks	
	Type of construction (specify)	
	Condition (specify)	
	Tank color	
	Deck type (specify)	
18.	External floating roof tank's seal type (specify)	
19.	Internal floating roof tanks	
	Seal type (specify)	
	Number of columns	
	Effective column diameter (ft)	
	Total deck seam length (ft)	
	Deck fitting types – access hatch	
	bolted cover, gasketed	
	unbolted cover, gasketed	
	unbolted cover, ungasketed	
	Deck fitting types - Automatic gauge float well	
	bolted cover, gasketed	
	unbolted cover, gasketed	
	unbolted cover, ungasketed	
	Deck fitting types – column well	
	Built up column – sliding cover, gasketed	
	Built up column – sliding cover, ungasketed	
	Pipe column – flexible fabric sleeve seal	
	Pipe column – – sliding cover, gasketed	
	Pipe column – – sliding cover, ungasketed	
	Deck fitting types – ladder well	
	sliding cover, gasketed	
	sliding cover, ungasketed	

FORM B4
Emission Unit Detail Form - VOC Storage Tanks

	Emission Unit ID Number	NA, IEU, 3 storage tanks
19.	Deck fitting types – sample well or pipe	
	Slotted pipe – sliding cover, gasketed	
	Slotted pipe – sliding cover, ungasketed	
	Sample well – slit fabric seal, 10% open area	
	Stub drain – 1-inch diameter	
	Deck fitting type – roof leg or hanger well	
	Adjustable	
	fixed	
	Deck fitting type – vacuum breaker	
	Weighted mechanical actuation gasketed	
	Weighted mechanical actuation ungasketed	
20.	Maximum liquid loading rate (gal/hr)	
21	Submerged fill at tout-loading (describe)	
22.	Material(s) stored	
	Type of material	Diesel fuel
	Normal annual throughput (gal/yr)	
	Normal turnovers per year	
	Density (lbs/gal)	
	Molecular weight	
	Average storage temperature (°F)	
	Vapor pressure (psi)	

FORM B4

Emission Unit Detail Form - VOC Storage Tanks

Applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Applicable Requirements*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods
None					

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Non-applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Permit Shield Request*):

Non-Applicable Requirements [1]	Reason for non-applicability and citation basis
40 CFR 60 Subpart K	Tanks 1 and 2 were constructed and installed in 1943. Tank 3 was built in 1995.
40 CFR 60 Subpart Ka	Tanks 1 and 2 were constructed and installed in 1943. Tank 3 was built in 1995.
40 CFR 60 Subpart Kb	Tanks 1 and 2 were constructed and installed prior to 1984. Tank 3 was constructed after 1984, but has a capacity of 10,000 gallons

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Form B4.2 - EU Detail Form - VOC Storage Tanks, IEU Lube Oil Tank

FORM B4

E m issionUnit Detail Form - VOC Storage Tanks

Stationary Source Name: Dutch Harbor Power Plant (DHPP) Permit Number: AQ0215TVP04, Rev. 1

1.	Emission Unit ID Number // Operating Scenario	NA, IEU, used oil storage tank
2.	Date installation/construction commenced	NA
3.	Date installed	NA
4.	Special control requirements? [if yes, describe]	No
5.	Manufacturer	NA
6.	Rated capacity (gallons)	500 gallons
7.	Tank length (ft)	-
8.	Tank diameter (ft)	-
9.	Tank age (years)	
10.	Submerged fill pipe?	
11.	Type of tank (specify)	Horizontal
12.	Underground?	No
	If underground, specify type of tube and vapor return.	
13.	Above ground vapor control information:	
	Pipe material	
	Pipe size	
	Piping drainage (continuous drain downward or condensate collection tank – if condensate collection, attach a description)	
	Isolation valve installed in piping?	
14.	Pressure vacuum relief valves:	
	Vent pressure settings (psia)	
	Months in which relief valves removed (specify)	
15.	Pressure conservation vent? [if yes, specify pressure setting – psia]	
16.	Fixed roof tanks:	
	Roof color	
	Shell color	NA
	Average vapor space height (ft)	N/A
	Shell condition (specify)	Good

FORM B4
Emission Unit Detail Form - VOC Storage Tanks

	Emission Unit ID Number	NA, IEU, used oil storage tank
17	Floating roof tanks:	
	Type of construction (specify)	
	Condition (specify)	
	Tank color	
	Deck type (specify)	
18.	External floating roof tanks, seal type (specify)	
19.	Internal floating roof tanks:	
	Seal type (specify)	
	Number of columns	
	Effective column diameter (ft)	
	Total deck seam length (ft)	
	Deck fitting types – access hatch	
	bolted cover, gasketed	
	unbolted cover, gasketed	
	unbolted cover, ungasketed	
	Deck fitting types - Automatic gauge float well	
	bolted cover, gasketed	
	unbolted cover, gasketed	
	unbolted cover, ungasketed	
	Deck fitting types – column well	
	Built up column – sliding cover, gasketed	
	Built up column – sliding cover, ungasketed	
	Pipe column – flexible fabric sleeve seal	
	Pipe column – – sliding cover, gasketed	
	Pipe column – – sliding cover, ungasketed	
	Deck fitting types – ladder well	
	sliding cover, gasketed	
	sliding cover, ungasketed	

FORM B4

Emission Unit Detail Form - VOC Storage Tanks

	Emission Unit ID Number	NA, IEU, used oil storage tank
19.	Deck fitting types – smple well or pipe	
	Slotted pipe – sliding cover, gasketed	
	Slotted pipe – sliding cover, ungasketed	
	Sample well – slit fabric seal, 10% open area	
	Stub drain – 1-inch diameter	
	Deck fitting type – roof leg or hanger will	
	Adjustable	
	fixed	
	Deck fitting type – vacuum breaker	
	Weighted mechanical actuation, gasketed	
	Weighted mechanical actuation, ungasketed	
20.	Maximum liquid loading rate (gal/hr)	
21	Submerged fill at out-loading (describe)	
22.	Material(s) stored	
	Type of material	Used oil
	Normal annual throughput (gal/yr)	
	Normal turnovers per year	
	Density (lbs/gal)	
	Molecular weight	
	Average storage temperature (°F)	
	Vapor pressure (psi)	

FORM B4

Emission Unit Detail Form - VOC Storage Tanks

Applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Applicable Requirements*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Methods
None					

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Non-applicable Requirements Specific to Emission Unit (*attach additional sheets as needed. Form B Supplement - Emission Unit-Specific Permit Shield Request*):

Non-Applicable Requirements[1]	Reason for non-applicability and citation/basis
None.	

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Forms D1 & D2 - Please see attached MS Excel File for Pollutant Emission Calculations

Form E1 - Stationary Source-Wide Applicable Requirements

FORM E1
Stationary Source-Wide Applicable Requirements

Permit Number: AQ0215TVP04, Rev. 1

Stationary Source-Wide Applicable Requirements (*attach additional sheets as needed*):

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Used to Determine Compliance
AQ0215TVP04, Condition 29	40 C.F.R. 61, Subparts A & M, and Appendix A	Asbestos NESHAP		Yes	Compliance based upon reasonable inquiry.
AQ0215TVP04, Condition 32	40 C.F.R. 82, Subpart F	Protection of Stratospheric Ozone, Refrigerant Recycling and Disposal		Yes	Compliance based upon reasonable inquiry.
AQ0215TVP04, Condition 33	40 C.F.R. 82, Subpart G	Protection of Stratospheric Ozone, Significant New Alternatives		Yes	Compliance based upon reasonable inquiry.
AQ0215TVP04, Condition 34	40 C.F.R. 82, Subpart H	Halon Prohibitions		Yes	Compliance based upon reasonable inquiry, except during projects to which the standard applies. Refer to rule for applicable MR&R.
AQ0215TVP04, Condition 35	18 AAC 50.040(c)(1), 40 C.F.R.71.6(a)(3)(ii) 40 C.F.R. 63.1(b), 63.5(b)(4), 63.6(c)(1), & 63.10(b)(3)	NESHAPs Applicability Determinations		Yes	Compliance based upon reasonable inquiry.
AQ0215TVP04 Condition 36	40C.F.R.60.13, 63.10(d & f) 71.6(c)(6)	NSPS and NESHAP Reports		Yes	Condition 36.1 and 36.2

FORM E1

Stationary Source-Wide Applicable Requirements

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Used to Determine Compliance
AQ0215TVP04, Conditions 37-39	18 AAC50.345(a)&(e) 18 AAC 50.345(f) 18 AAC50.345(g)	Standard Terms and Conditions:	General Terms: independent permit terms, permit changes, property conveyance	Yes	NA: No monitoring method applies.
AQ0215TVP04 Condition 40	18 AAC 50.326(j)(1) 18 AAC 50.400 18 AAC 50.403 18 AAC 50.405 AS 37.10.052(b) AS 46.14.240	Administration Fees	Payment of Fees	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 41	18 AAC 50.035 18 AAC 50.346(b)(1) 18 AAC 50.410 18 AAC 50.420 40 C.F.R.71.5(c)(3)(ii)	Assessable Emissions	Payment of fees	Yes	Conditions 41.1 through 41.2
AQ0215TVP04 Condition 42	18 AAC 50.346(b)(1) 18 AAC 50.410 18 AAC 50.420 40 C.F.R.71.5(c)(3)(ii)	Assessable Emission Estimates	Submittal of Estimates	Yes	Conditions 42.1 through 42.2
AQ0215TVP04 Condition 43	18 AAC 50.045(a)	Dilution	Prohibition	Yes	Compliance based upon reasonable inquiry.
AQ0215TVP04 Condition 44	18 AAC 50.045(d)	Reasonable Precautions to Prevent Fugitive Dust		Yes	Conditions 44.1 through 44.2
AQ0215TVP04 Condition 45	18 AAC 50.055(g)	Stack Injection	Prohibition	Yes	Compliance based upon reasonable inquiry.

FORM E1

Stationary Source-Wide Applicable Requirements

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Used to Determine Compliance
AQ0215TVP04 Condition 46	18 AAC 50.110 18 AAC 50.040(e) 18 AAC 50.346(a) 40 C.F.R. 71.6(a)(3)	Air Pollution Prohibited	Prohibition	Yes	Conditions 46.1(a) through (f)
AQ0215TVP04 Condition 47	18 AAC 50.235(a) 40 C.F.R. 71.6(c)(6)	Technology Based Emission Standard		Yes	Compliance based upon reasonable inquiry.
AQ0215TVP04 Condition 48	18 AAC 50.065	Open Burning		Yes	Conditions 48.1 and 48.2
AQ0215TVP04 Condition 49	18 AAC 50.220(a) 18 AAC 50.345(a) & (k)	Requested Source Tests	Source Testing	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 50	18 AAC 50.220(b)	Operating Conditions	Source Testing	Yes	Condition 50.1 and 50.2 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 51	18 AAC 50.040(c) 18AAC 50.220(c)(1)(C) 40 C.F.R. 63	Reference Test Methods	Source Testing	Yes	Condition 51.1through 51.7 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 52	18 AAC 50.220(c)(3) & 50.990(102)	Excess Air Requirements	Source Testing	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 53	18 AAC 50.345(a)	Test Exemption	Source Testing	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 54	18 AAC 50.345(a) & (l)	Test Deadline Extension	Source Testing	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 55	18 AAC 50.345(a)&(m)	Test Plans	Source Testing	Yes	Compliance based upon facility records and reasonable inquiry.

FORM E1

Stationary Source-Wide Applicable Requirements

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Used to Determine Compliance
AQ0215TVP04 Condition 56	18 AAC 50.345(a) & (n)	Test Notification	Source Testing	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 57	18 AAC 50.345(a)&(o)	Test Reports	Source Testing	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 58	18 AAC 50.220(f)	Particulate Matter Calculations	Source Testing	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 59	40 C.F.R 60.7(f), Subpart A 40 C.F.R71.6(a)(3)(ii)(B)	Recordkeeping Requirements	Recordkeeping and Reporting	Yes	AQ0215TVP04 Condition 59.1 and 59.2 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 60	18 AAC 50.345(a) & (j) 18 AAC 50.205 40 C.F.R.71.6(a)(3)(iii)(A)	Certification	Recordkeeping and Reporting	Yes	AQ0215TVP04 Condition 60.1 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 61	40 C.F.R.71.6(a)(3)(iii)(A)	Submittals	Recordkeeping and Reporting	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 62	18 AAC 50.345(a) & (i) 18 AAC 50.200 40 C.F.R. 71.5(a)(2) 40 C.F.R. 71.6(a)(3)	Information Requests	Recordkeeping and Reporting	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 63	18 AAC 50.235(a)(2), 18 AAC 50.240(c), 18 AAC 50.346(b)(2) & (3)	Excess Emissions and Permit Deviation Reports	Recordkeeping and Reporting	Yes	AQ0215TVP04 Conditions 63.1 through 63.3 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 64	18 AAC 50.346(a) 40C.F.R.71.6(a)(3)(iii)(A)	Operating Reports	Recordkeeping and Reporting	Yes	AQ0215TVP04 Conditions 64.1 through 64.5 Compliance based upon facility records and reasonable inquiry.

FORM E1

Stationary Source-Wide Applicable Requirements

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Used to Determine Compliance
AQ0215TVP04 Condition 65	18 AAC 50.205 18 AAC 50.345(a) & (j) 40 C.F.R. 71.6(c)(5)	Annual Compliance Certification	Recordkeeping and Reporting	Yes	AQ0215TVP04 Conditions 65.1 through 65.3 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 66	18 AAC 50.346(b)(8) 18 AAC 50.200 40 CFR 51.15 40 CFR 51.30(a)(1) & (b)(1) 40 CFR 51, Appendix A to Subpart A, 73 FR 76556 (12/17/08)	Emission Inventory Reporting	Recordkeeping and Reporting	Yes	AQ0215TVP04 Conditions 66.1 through 66.4 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 67	40 C.F.R. 71.6(a)(8)	Permit Applications and Submittals	Changes and Renewal	Yes	AQ0215TVP04 Condition 67.1 through 67.4 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 68	40 C.F.R. 71.6(a)(8)	Emissions Trading	Changes and Renewal	Yes	Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 69	40 C.F.R. 71.6(a)(12)	Off Permit Changes	Changes and Renewal	Yes	AQ0215TVP04 Condition 69.1 through 69.4 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 70	40 C.F.R. 71.6(a)(13)	Operational Flexibility	Changes and Renewal	Yes	AQ0215TVP04 Condition 70.1 through 70.3 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 71	18AAC50.326(c)(2) 40 CFR 71.5(a)(1)(iii) 40 CFR 71.7(b) & (c)(1)(ii)	Permit Renewal	Changes and Renewal	Yes	Compliance based upon facility records and reasonable inquiry.

FORM E1

Stationary Source-Wide Applicable Requirements

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Used to Determine Compliance
AQ0215TVP04 Condition 72	50.345(a) & (b)	General compliance with permit terms and inapplicable requirements	General Terms	Yes	AQ0215TVP04 Condition 72.1 and 72.2 This term requires no action in order to comply and contains statements with which the permittee generally agrees.
AQ0215TVP04 Condition 73	18 AAC 50.345(a) & (c)	Comply with each permit term and condition	General Terms	Yes	AQ0215TVP04 Condition 73.1 and 73.3 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 74	40 C.F.R. 71.6(c)(3) 40 C.F.R. 71.5(c)(8)(iii)(A)	…continue to comply…	General Terms	Yes	This term requires no action in order to comply and contains statements with which the permittee generally agrees.
AQ0215TVP04 Condition 75	18 AAC 50.345(a) & (d)	It is not a defense…	General Terms	Yes	This term requires no action in order to comply and contains statements with which the permittee generally agrees.
AQ0215TVP04 Condition 76	18 AAC 50.345(a) & (h)	Allow Department inspectors to enter premises, access records	General Terms	Yes	Condition 76.1 through 76.4 Compliance based upon facility records and reasonable inquiry.
AQ0215TVP04 Condition 77	40 C.F.R. 71.5(c)(8)(iii)(A)	…requirements that will become effective…the Permittee shall meet….	General Terms	Yes	Compliance based upon facility records and reasonable inquiry.

FORM E1

Stationary Source-Wide Applicable Requirements

Permit and Condition Number	Applicable Requirement Citation[1]	Parameter/ Pollutant	Limit/Standard/ Requirement	Currently in Compliance?	Monitoring, Recordkeeping and Reporting Used to Determine Compliance
AQ0215TVP04 Condition 78-79	40 C.F.R. 71.6(f)(3)(i)&(ii)	Permit as a Shield	General Terms	Yes	Compliance based upon facility records and reasonable inquiry.
NOTE: For all requirements listed above, except those that do not apply, the full text and regulatory citations have been provided to the Department in the attached Title V permit, which is effective as of the date of this submittal. All requirements referred to herein will apply to the source upon issuance of the renewal with no changes. If you require additional information about the applicability of state of state or federal requirements, please refer to the current Title V permit.					

[1] Citations must be specific. Include sub-paragraph level detail [e.g. 18 AAC 50.055(a)(1), or 40 C.F.R. 60.332(a)(2).]

Form E2 - Permit-to-Operate and Minor Permit Condition Change Request

FORM E2

Permit-to-Operate and Minor Permit Condition Change Request

Permit Number: AQ0215TVP04, Rev. 1

Permit-to-Operate and Minor Permit Information (*attach additional sheets as needed*):

Permit-to-Operate or Minor Permit Number	Condition Number	Type of change (revise or remove)	Reason for change	Requested Alaska Title V Operating Permit Condition
AQ0215MSS05	10	Material correction to Table 3 in the minor permit: the emission factor is from AP-42, but it is incorrect in the permit. It should be 0.0573 lb/MMbtu. Not 0.573 lb/MMbtu. The same mistake appears again in the TAR to this permit, in Appendix A. The footnote to Appendix A of the TAR makes it clear that this factor is from AP-42. The correct factor appears in AP-42 Table 3.4-2.	The application for the minor permit, as well as the footnotes Table A in the TAR agree that this factor is the AP-42 factor. However, it appears in the minor permit, TAR, and Title V incorrectly. In each document issued by the Department, the Department has dropped the "0" behind the decimal. ADEC has the authority to make this change without a permit application under 18 AAC 50.546(b). In September 2022, the City formally requested that the Department revoke and re-issue the minor permit in order to correct this material error. So far, the Department has not corrected this issue.	Please correct Table E of AQ0215TVP04, Rev. 1 such that the PM-10 emission factor for EU IDs 7 and 8 says **0.0573** lb/MMBtu. Please also make this material correction in AQ0215MSS05, Condition 10 Table 3. Please also make the same correction in Appendix A to the TAR to AQ0215MSS05.

Form E3 – Title V Condition Change Request

FORM E3
Title V Condition Change Request

Permit Number: AQ0215TVP04, Rev. 1

Title V Permit Information (*attach additional sheets as needed*):

Current Title V Operating Permit Condition Number	Type of change (revise or remove)	Reason for change	Requested Alaska Title V Operating Permit Condition
Condition 1	Revise the subconditions of Condition 1 in accordance with Standard Permit Condition IX, Condition 1.2 for EU ID 17.	This unit is restricted to 100 hours of operation in any 12-month rolling period (Cond. 18 of AQ0215TVP04, Rev. 1). Therefore, it qualifies for reduced MR&R, per Condition 1.2 of Standard Permit Condition IX.	Add a second sub-condition to Condition 1.1 to allow the City to certify compliance with Condition 1 for EU ID 17 by complying with Condition 25 (Insignificant Emission Units).
Condition 5	Revise the subconditions of Condition 5 in accordance with Standard Permit Condition IX, Condition 6.3 for EU ID 17.	This unit is restricted to 100 hours of operation in any 12-month rolling period (Cond. 18 of AQ0215TVP04, Rev. 1). Therefore, it qualifies for reduced MR&R, per Condition 6.3 of Standard Permit Condition IX.	Add a second sub-condition to Condition 5.1 to allow the City to certify compliance with Condition 1 for EU ID 17 by complying with Condition 25 (Insignificant Emission Units).
Condition 17	Correction to the regulatory citation in this condition.	The regulatory citation states that this condition originates from Condition 7 of AQ0215MSS05.	The correct citation should be Condition 6 of AQ0215MSS05.
Condition 22	Correction to the regulatory citation in this condition.	The regulatory citation states that this condition originates from Condition 13 of AQ0215MSS05.	The correct citation should be Condition 10 of AQ0215MSS05.
Condition 23	Correction to the regulatory citation in this condition.	The regulatory citation is missing from this condition.	The correct citation should be Condition 11 of AQ0215MSS05.

FORM E3

Title V Condition Change Request

Condition 24	Correction to the regulatory citation in this condition.	The regulatory citation is missing from this condition.	The correct citation should be Condition 12 of AQ0215MSS05.

Attachment A - Title V Operating Permit AQ0215TVP04, Rev. 1

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY OPERATING PERMIT

Permit No. AQ0215TVP04
Revision 1: July 1, 2020

Issue Date: September 14, 2018
Expiration Date: September 14, 2023

The Alaska Department of Environmental Conservation, under the authority of AS 46.14 and 18 AAC 50, issues an operating permit to the Permittee, **City of Unalaska, Department of Public Utilities**, for the operation of the **Dutch Harbor Power Plant (DHPP)**.

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

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

Citations listed herein are contained within the effective version of 18 AAC 50 at permit issuance. All federal regulation citations are from those sections adopted by reference in this version of regulation in 18 AAC 50.040 unless otherwise specified.

Upon effective date of this permit, Operating Permit AQ0215TVP03, including all revisions, expires.

This operating permit became effective October 14, 2018.

Revision 1 becomes effective July 31, 2020.

James R. Plosay, Manager
Air Permits Program

Table of Contents

Abbreviations and Acronyms

AAAQS .....Alaska Ambient Air Quality Standard
AAC.....Alaska Administrative Code
ADEC .....Alaska Department of Environmental Conservation
AS.....Alaska Statutes
ASTM.....American Society for Testing and Materials
BACT .....best available control technology
bHp .....brake horsepower
CAA or The Act .Clean Air Act
CDX.....Central Data Exchange
CEDRI .....Compliance and Emissions Data Reporting Interface
CFR .....Code of Federal Regulations
CO .....carbon monoxide
DHPP.....Dutch Harbor Power Plant
dscf .....dry standard cubic foot
EPA .....US Environmental Protection Agency
EU.....emissions unit
FITR .....fuel injection timing retard
g/kW-hr.....grams per kilowatt-hour
gph.....gallons per hour
gr/dscf.....grain per dry standard cubic foot (1 pound = 7000 grains)
HAPs .....hazardous air pollutants [as defined in AS 46.14.990]
hp.....horsepower
ID.....emissions unit identification number
kPa.....kiloPascals
LAER.....lowest achievable emission rate
MACT .....maximum achievable control technology [as defined in 40 CFR 63]
MMBtu/hr.....million British thermal units per hour
MMscf.....million standard cubic feet
MR&R.....monitoring, recordkeeping, and reporting
MWh .....megawatt-hour
NAICS.....North American Industrial Classification System
NESHAP .....National Emission Standards for Hazardous Air Pollutants [as contained in 40 CFR 61 and 63]
NH_3.....ammonia
NO_X.....nitrogen oxides
NSPS .....New Source Performance Standards [as contained in 40 CFR 60]
O_2 .....oxygen
PAL.....plantwide applicability limitation
Pb .....lead
$PM_{2.5}$.....particulate matter less than or equal to a nominal 2.5 microns in diameter
PM_{10} .....particulate matter less than or equal to a nominal 10 microns in diameter
ppm .....parts per million
ppmv, ppmvd .....parts per million by volume on a dry basis
psia .....pounds per square inch (absolute)
PSD .....prevention of significant deterioration
PTE .....potential to emit
SIC. .....Standard Industrial Classification
SIP.....State Implementation Plan
SO_2 .....sulfur dioxide
tph .....tons per hour
tpy .....tons per year
VOC .....volatile organic compound [as defined in 40 CFR 51.100(s)]
VOL .....volatile organic liquid [as defined in 40 CFR 60.111b, Subpart Kb]
vol% .....volume percent
wt% .....weight percent

Section 1. Stationary Source Information

Identification

Permittee:		City of Unalaska, Department of Public Utilities PO Box 610 Unalaska, AK 99685
Stationary Source Name:		Dutch Harbor Power Plant
Location:		53° 53′ 18.6" North; 166° 32′ 14.28" West
Physical Address:		1732 East Point Road Dutch Harbor, Alaska 99685
Owner and Operator:		City of Unalaska, Department of Public Utilities PO Box 610 Unalaska, AK 99685
Permittee's Responsible Official:		Erin Reinders, City Manager PO Box 610 Unalaska, AK 99685
Designated Agent:		Dan Winters, Director of Public Utilities PO Box 610 Unalaska, AK 99685
Stationary Source and Building Contact:		Richard Owen, Powerhouse Supervisor PO Box 610 Unalaska, AK 99685 (907) 581-1831
Fee and Permit Contact:		Dan Winters, Director of Public Utilities PO Box 610 Unalaska, AK 99685 (907) 581-1260
Process Description:	SIC Code	4911 - Electric services
	NAICS Code:	221112 - Electric power generation, fossil fuel

[18 AAC 50.040(j)(3) & 50.326(a)]
[40 CFR 71.5(c)(1) & (2)]

Section 2. Emissions Unit Inventory and Description

Emissions units listed in Table A have specific monitoring, recordkeeping, or reporting conditions in this permit. Except as noted elsewhere in the permit, emissions unit descriptions and ratings are given for identification purposes only.

Table A - Emissions Unit Inventory

EU ID	Emissions Unit Name	Emissions Unit Description	Fuel	Rating/Size	Installation Date
7	Genset #8	Caterpillar 3516	Diesel	1,180 kWe	1989
8	Genset #9	Caterpillar 3512B	Diesel	1,230 kWe	1994
13	Genset #10	Wärtsilä 12V32C	Diesel	5,211 kWe	2010
14	Genset #11	Wärtsilä 12V32C	Diesel	5,211 kWe	2010
15	Genset #13	Caterpillar C-280	Diesel	4,400 kWe	2011
16	Genset #12	Caterpillar C-280	Diesel	4,400 kWe	2015
17	Genset #15	Caterpillar C-9 DITA	Diesel	250 kWe	2010

[18 AAC 50.326(a)]
[40 CFR 71.5(c)(3)]

Section 3. State Requirements

Visible Emissions Standard

1. **Industrial Process and Fuel-Burning Equipment Visible Emissions.** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 7, 8, and 13 through 17 listed in Table A to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

[18 AAC 50.040(j), 50.055(a)(1), & 50.326(j)]
[40 CFR 71.6(a)(1)]

1.1. For EU IDs 7, 8, and 13 through 17, monitor, record, and report in accordance with Conditions 2 through 4.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 CFR 71.6(a)(3)]

Visible Emissions Monitoring, Recordkeeping, and Reporting (MR&R)

Liquid Fuel-Fired Emissions Units

2. **Visible Emissions Monitoring.** When required by Condition 1.1, or in the event of replacement during the permit term, the Permittee shall observe the exhaust of EU IDs 7, 8, and 13 through 17 for visible emissions using either the Method 9 Plan under Condition 2.3 or the Smoke/No-Smoke Plan under Condition 2.4.

2.1. The Permittee may change visible emissions plans for an emissions unit at any time unless prohibited from doing so by Condition 2.5.

2.2. The Permittee may for each unit elect to continue the visible emissions monitoring schedule in effect from the previous permit at the time a renewed permit is issued, if applicable.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 CFR 71.6(a)(3)(i)]

2.3. **Method 9 Plan.** For all 18-minute observations in this plan, observe exhaust, following 40 CFR 60, Appendix A-4, Method 9, adopted by reference in 18 AAC 50.040(a), for 18 minutes to obtain 72 consecutive 15-second opacity observations.

a. **First Method 9 Observation**. Except as provided in Condition 2.2 and 2.3.a(iii), observe exhaust for 18 minutes within six months after the issue date of this permit.

(i) For any unit, observe exhaust for 18 minutes within 14 calendar days after changing from the Smoke/No-Smoke Plan of Condition 2.4.

(ii) For any unit replaced during the term of this permit, observe exhaust for 18 minutes within 30 days of startup.

(iii) For EU IDs 7 and 8, observe the exhaust within 30 days of the emissions unit becoming fully operational[1] following restart.

(A) Record the restart dates of EU IDs 7 and 8.

b. **Monthly Method 9 Observations.** After the first Method 9 observation, perform 18-minute observations at least once in each calendar month that an emissions unit operates.

c. **Semiannual Method 9 Observations.** After observing emissions for three consecutive operating months under Condition 2.3.b, unless a six-minute average is greater than 15 percent and one or more observations are greater than 20 percent, perform 18-minute observations:

(i) within six months after the preceding observation, or

(ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following six months after the preceding observation.

d. **Annual Method 9 Observations.** After at least two semiannual 18-minute observations, unless a six-minute average is greater than 15 percent and one or more individual observations are greater than 20 percent, perform 18-minute observations:

(i) within twelve months after the preceding observation; or

(ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following twelve months after the preceding observation

e. **Increased Method 9 Frequency.** If a six-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more observations are greater than 20 percent, then increase or maintain the 18-minute observation frequency for that emissions unit to at least monthly intervals as described in Condition 2.3.b, until the criteria in Condition 2.3.c for semiannual monitoring are met.

2.4. **Smoke/No Smoke Plan.** Observe the exhaust for the presence or absence of visible emissions, excluding condensed water vapor.

a. **Initial Monitoring Frequency.** Observe the exhaust during each calendar day that an emissions unit operates.

[1] Fully operational, for purposes of this permit and as it applies to EU IDs 7 & 8, is defined as completing all testing requirements after unit is restarted. Testing requirements shall not exceed 60 days after unit is restarted.

b. **Reduced Monitoring Frequency.** After the emissions unit has been observed on 30 consecutive operating days, if the emissions unit operated without visible smoke in the exhaust for those 30 days, then observe emissions at least once in every calendar month that an emissions unit operates.

c. **Smoke Observed.** If smoke is observed, either begin the Method 9 Plan of Condition 2.3 or perform the corrective action required under Condition 2.5.

2.5. **Corrective Actions Based on Smoke/No Smoke Observations.** If visible emissions are present in the exhaust during an observation performed under the Smoke/No Smoke Plan of Condition 2.4, then the Permittee shall either follow the Method 9 Plan of Condition 2.3 or

a. initiate actions to eliminate smoke from the emissions unit within 24 hours of the observation;

b. keep a written record of the starting date, the completion date, and a description of the actions taken to reduce smoke; and

c. after completing the actions required under Condition 2.5.a,

(i) make smoke/no smoke observations in accordance with Condition 2.4

(A) at least once per day for the next seven operating days and until the initial 30-day observation period is completed; and

(B) continue as described in Condition 2.4.b; or

(ii) if the actions taken under Condition 2.5.a do not eliminate the smoke, or if subsequent smoke is observed under the schedule of Condition 2.5.c(i)(A), then observe the exhaust using the Method 9 Plan unless the Department gives written approval to resume observations under the Smoke/No Smoke Plan; after observing smoke and making observations under the Method 9 Plan, the Permittee may at any time take corrective action that eliminates smoke and restart the Smoke/No Smoke Plan under Condition 2.4.a.

3. **Visible Emissions Recordkeeping.** When required by Condition 1.1, or in the event of replacement of any EU IDs 7, 8, and 13 through 17 during the permit term, the Permittee shall keep records as follows:

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 CFR 71.6(a)(3)(ii)]

3.1. If using the Method 9 Plan of Condition 2.3,

a. the observer shall record

(i) the name of the stationary source, emissions unit and location, emissions unit type, observer's name and affiliation, and the date on the Visible Emissions Observation Form in Section 11;

(ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating mode (load or fuel consumption rate or best estimate if unknown) on the sheet at the time opacity observations are initiated and completed;

(iii) the presence or absence of an attached or detached plume and the approximate distance from the emissions outlet to the point in the plume at which the observations are made;

(iv) opacity observations to the nearest five percent at 15-second intervals on the Visible Emission Observation Form in Section 11, and

(v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.

b. To determine the six-minute average opacity, divide the observations recorded on the record sheet into sets of 24 consecutive observations; sets need not be consecutive in time and in no case shall two sets overlap; for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; record the average opacity on the sheet.

c. Calculate and record the highest six-minute and 18-consecutive-minute average opacities observed.

3.2. If using the Smoke/No Smoke Plan of Condition 2.4, record the following information in a written log for each observation and submit copies of the recorded information upon request of the Department:

a. the date and time of the observation;

b. from Table A, the ID of the emissions unit observed;

c. whether visible emissions are present or absent in the exhaust;

d. a description of the background to the exhaust during the observation;

e. if the emissions unit starts operation on the day of the observation, the startup time of the emissions unit;

f. name and title of the person making the observation; and

g. operating rate (load or fuel consumption rate).

4. **Visible Emissions Reporting.** When required by Condition 1.1, or in the event of replacement of any of EU IDs 7, 8, and 13 through 17 during the permit term, the Permittee shall report visible emissions as follows:

[18 AAC 50.040(j), 50.326(j) & 50.346(c)]
[40 CFR 71.6(a)(3)(iii)]

4.1. Include in each operating report required under Condition 64:

a. which visible emissions plan of Condition 2 was used for each emissions unit; if more than one plan was used, give the time periods covered by each plan;

b. for each emissions unit under the Method 9 Plan,

(i) copies of the observation results (i.e. opacity observations) for each emissions unit that used the Method 9 Plan, except for the observations the Permittee has already supplied to the Department; and

(ii) a summary to include:

(A) number of days observations were made;

(B) highest six- and 18-consecutive-minute average opacities observed; and

(C) dates when one or more observed six-minute average opacities were greater than 20 percent;

c. for each emissions unit under the Smoke/No Smoke Plan, the number of days that smoke/no smoke observations were made and which days, if any, that smoke was observed; and

d. a summary of any monitoring or recordkeeping required under Conditions 2 and 3 that was not done;

4.2. Report under Condition 63:

a. the results of Method 9 observations that exceed 20 percent average opacity for any six-minute period; and

b. if any monitoring under Condition 2 was not performed when required, report within three days of the date the monitoring was required.

Particulate Matter Emissions Standard

5. **Industrial Process and Fuel-Burning Equipment Particulate Matter.** The Permittee shall not cause or allow particulate matter emitted from EU IDs 7, 8, and 13 through 17 listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

[18 AAC 50.040(j), 50.055(b)(1) & 50.326(j)]
[40 CFR 71.6(a)(1)]

5.1. For EU IDs 7, 8, and 13 through 17, monitor, record and report in accordance with Conditions 6 through 7.

[18 AAC 50.040(j), 50.326(j) & 50.346(c)]
[40 CFR 71.6(a)(3)]

Particulate Matter MR&R

Liquid Fuel-Fired Emissions Units

6. **Particulate Matter Monitoring for Diesel Engines.** The Permittee shall conduct source tests on diesel engines, EU IDs 7, 8, and 13 through 17, to determine the concentration of particulate matter in the exhaust of each emissions unit as follows:

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 CFR 71.6(a)(3)(i)]

6.1. Except as allowed in Condition 6.4, within six months of exceeding the criteria of Conditions 6.2.a or 6.2.b, either

a. conduct a particulate matter source test according to requirements set out in Section 6; or

b. make repairs so that emissions no longer exceed the criteria of Condition 6.2; to show that emissions are below those criteria, observe emissions as described in Condition 2.3 under load conditions comparable to those when the criteria were exceeded.

6.2. Conduct the test or make repairs according to Condition 6.1 if

a. 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity greater than 20 percent; or

b. for an emissions unit with an exhaust stack diameter that is less than 18 inches, 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity that is greater than 15 percent and not more than 20 percent, unless the Department has waived this requirement in writing.

6.3. During each one-hour particulate matter source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the average opacity that was measured during each one-hour test run. Submit a copy of these observations with the source test report.

6.4. The automatic particulate matter source test requirements in Conditions 6.1 and 6.2 are waived for an emissions unit if a particulate matter source test on that unit has shown compliance with the particulate matter standard during this permit term.

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

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 CFR 71.6(a)(3)(iii)]

7.1. Report under Condition 63:

a. the results of any particulate matter source test that exceeds the particulate matter emissions limit; or

b. if one of the criteria of Condition 6.2 was exceeded and the Permittee did not comply with either Condition 6.1.a or 6.1.b, this must be reported by the day following the day compliance with Condition 6.1 was required;

7.2. report observations in excess of the threshold of Condition 6.2.b within 30 days of the end of the month in which the observations occur;

7.3. in each operating report under Condition 64, include:

a. the dates, EU ID(s), and results when an observed 18-minute average was greater than an applicable threshold in Condition 6.2;

b. a summary of the results of any particulate matter testing under Condition 6; and

c. copies of any visible emissions observation results (opacity observations) greater than the thresholds of Condition 6.2, if they were not already submitted.

Sulfur Compound Emissions Standard

8. Sulfur Compound Emissions. The Permittee shall not cause or allow sulfur compound emissions, expressed as SO_2, from EU IDs 7, 8, and 13 through 17 to exceed 500 ppm averaged over three hours.

[18 AAC 50.040(j), 50.055(c) & 50.326(j)]
[40 CFR 71.6(a)(1)]

Sulfur Compound MR&R

Fuel Oil[2]

9. Sulfur Compound Monitoring and Recordkeeping. The Permittee shall comply with the following:

9.1. The Permittee shall do one of the following for each shipment of fuel:

a. If the fuel grade requires a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount; or

b. If the fuel grade does not require a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount and

(i) test the fuel for sulfur content; or

(ii) obtain test results showing the sulfur content of the fuel from the supplier or refinery; the test results must include a statement signed by the supplier or refinery of what fuel they represent.

[2] *Oil* means crude oil or petroleum or a liquid fuel derived from crude oil or petroleum, including distillate and residual oil, as defined in 40 CFR 60.41b.

9.2. Fuel testing under Condition 9.1 must follow an appropriate method listed in 18 AAC 50.035(b)-(c) or 40 CFR 60.17 incorporated by reference in 18 AAC 50.040(a)(1).

9.3. If a load of fuel contains greater than 0.75 percent sulfur by weight, the Permittee shall calculate SO_2 emissions in ppm using either the SO_2 material balance calculation in Section 12 or Method 19 of 40 CFR 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a).

10. Sulfur Compound Reporting. The Permittee shall report as follows:

10.1. If SO_2 emissions calculated under Condition 9.3 exceed 500 ppm, the Permittee shall report under Condition 63. When reporting under this condition, include the calculation under Section 12 or Method 19.

10.2. The Permittee shall include in the report required by Condition 64

a. a list of the fuel grades received at the stationary source during the reporting period;

b. for any grade with a maximum fuel sulfur greater than 0.5 percent sulfur, the fuel sulfur of each shipment; and

c. for fuel with a sulfur content greater than 0.75 percent, the calculated SO_2 emissions in ppm.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 CFR 71.6(a)(3)]

11. Used Oil. The Permittee may burn used oil in the engines only as follows:

11.1. When burning used oil, blend oil into the fuel system consistent with the DHPP Used Oil and Fuel Blending Log to keep the used oil ratio under 0.8%.

11.2. In the operating report required by Condition 64, include copies of the blending logs noting the used oil added and fuel oil added to produce the desired used oil ratio of less than 0.8%.

11.3. Report in accordance with Condition 63 any time the blend ratio deviates from Condition 11.1.

11.4. Whenever used oil is added to liquid fuel, the Permittee shall comply with Condition 19.1.

[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1), 71.6(a)(3), & 71.6(c)(6)]

Preconstruction Permit[3] Requirements

12. Stack Requirements. For EU IDs 13, 14, 15, and 17 construct stacks with:

[Condition 5, Construction Permit AQ0215CPT02, Rev 1, 7/20/2010]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

12.1. sampling ports that comport with 40 CFR 60, Appendix A, Method 1, Section 2.1, and stack or duct free of cyclonic flow at the port location during the applicable test methods and procedures;

12.2. safe access to sampling ports; and

12.3. utilities for emission sampling and testing equipment.

[Conditions 5.a through 5.c, Construction Permit AQ0215CPT02, Rev 1, 7/20/2010]
[40 CFR 71.6(a)(1)]

Best Available Control Technology (BACT) Requirements

13. NOx BACT Limit for Units 13 and 14. Limit the NOx emission rate, expressed as NO_2 averaged over three hours, from each of EU IDs 13 and 14 to no greater than 13.6 g/kW-hr at all times. Monitor, record, and report as follows:

[Condition 17, Construction Permit AQ0215CPT02, Rev 1, 7/20/2010]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

13.1. Operate each unit with Fuel Injection Timing Retard (FITR) and with an aftercooler with a separate low temperature cooling water circuit.

13.2. After every engine re-configuration of EU IDs 13 and 14, conduct NOx source tests to ascertain compliance with the NOx emission rate limit in this condition. (Conduct the test on the reconfigured engine.) Conduct the test at 100 percent load. Determine the emission rate in g/kW-hr expressed as NO_2, using exhaust properties determined by Reference Method 19 and exhaust gas measurements as set out in Section 6.

13.3. If any NOx source test results in a NOx emission rate greater than the limit in this condition, report as excess emissions under Condition 63.

[Conditions 17.1, 17.3, 17.4, Construction Permit AQ0215CPT02, Rev 1, 7/20/2010]
[40 CFR 71.6(a)(3)]

14. NOx BACT Limit for EU ID 17. Limit the NOx emission rate, expressed as NO_2 averaged over three hours, from EU ID 17 to no greater than 5.75 g/kW-hr at all times.

[Condition 18.6, Construction Permit AQ0215CPT02, Rev 1, 7/20/2010]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

[3] *Preconstruction Permit* refers to federal PSD permits, state-issued permits-to-operate issued on or before January 17, 1997 (these permits cover both construction and operations), construction permits issued on or after January 18, 1997, and minor permits issued on or after October 1, 2004.

14.1. Comply with Condition 28.7.

[40 CFR 71.6(a)(3) & 71.6(c)(6)]

15. BACT Limits for EU ID 15. The Permittee shall limit the emissions from EU ID 15 to the values shown below in Table B. The Permittee shall implement the BACT controls on EU ID 15 listed in Table B.

[Conditions 20 & 20.1, Minor Permit AQ0215MSS03, 11/28/2012]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

Table B – BACT Limits and Controls for EU ID 15

Pollutant	BACT Control	BACT Emission Limit
NOx	Turbocharger/Aftercooler	9.8 g/kW-hr
PM-2.5	Positive Crankcase Ventilation	0.50 g/kW-hr

15.1. To show compliance with the NOx BACT limit, the Permittee shall comply with the requirements in NSPS Subpart IIII set forth in Conditions 28.7 and 28.10.

[Conditions 20.2 & 20.2b, Minor Permit AQ0215MSS03, 11/28/2012]
[40 CFR 71.6(a)(3)]

15.2. To show compliance with the PM-2.5 BACT limit, the Permittee shall comply with the requirements in NSPS Subpart IIII set forth in Conditions 28.7 and 28.10.

[Conditions 20.3 & 20.3b, Minor Permit AQ0215MSS03, 11/28/2012]
[40 CFR 71.6(a)(3)]

Ambient Air Quality Protection Requirements

16. To protect the annual NO_2 Alaska Ambient Air Quality Standard (AAAQS) and increment; the 24-hour and annual PM-2.5 AAAQS; the 24-hour and annual PM-10 increment; the 1-hour, 3-hour, 24-hour, and annual SO_2 AAAQS and the 3-hour, 24-hour, and annual SO_2 increment, the Permittee shall:

[Condition 15, Minor Permit AQ0215MSS03, 11/28/2012]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

16.1. For each exhaust stack that is installed and operated on EU IDs 7, 8, 13 through 15 and 17, construct the exhaust stack to have a release point that equals or exceeds an above grade height of the values listed in Table C.

[Condition 15.1, Minor Permit AQ0215MSS03, 11/28/2012]

Table C – Emission Unit Stack Heights

EU ID	Description	Stack Height (m)
7	Caterpillar 3516	25.6
8	Caterpillar 3512B	25.6
13	Wärtsilä 12V32C	26.2
14	Wärtsilä 12V32C	26.2
15	Caterpillar C-280	25.6
17	Caterpillar C-9 DITA	3.66

17. The Permittee shall protect the 1-hour, 3-hour, 24-hour and annual SO_2 AAAQS by complying with the following:

17.1. Construct and maintain EU ID 16 with the minimum stack height of 25.4 meters above grade.

17.2. Construct and maintain EU ID 16 with an uncapped, vertical release. This condition does not preclude the use of flapper valve rain covers, or other similar designs, that do not hinder the vertical momentum of the exhaust plume.

17.3. Burn diesel fuel with a sulfur content of no greater than 0.01 percent by weight (wt%) in EU ID 16.

[Condition 7, Minor Permit AQ0215MSS05, 5/13/2020]

a. Monitor, record, and report in accordance with Conditions 19.1.a through 19.1.e and 19.1.g.

b. If the fuel sulfur content combusted in EU ID 16 exceeds 0.01 wt%, report in accordance with Condition 63.

[40 CFR 71.6(a)(3) & 71.6(c)(6)]

18. To protect the annual NO_2 increment, the Permittee shall operate EU ID 17 no more than 100 hours per rolling 12-month period.

[Conditions 16 & 16.1, Minor Permit AQ0215MSS03, 11/28/2012]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

18.1. Install on EU ID 17 a non-resettable hour meter.

18.2. Monitor and record the hours of operation of EU ID 17.

18.3. Before the end of each calendar month calculate and record the total hours of operation for EU ID 17 for the previous month, then calculate the rolling 12-month total hours of operation by adding the previous 11 months.

18.4. Report the monthly and rolling 12-month hours of operation for each month in the operating report required in Condition 64.

18.5. Report in accordance with Condition 63 if the consecutive 12-month operating hours exceed the limit in Condition 18.

[Conditions 16.1a through 16.1e, Minor Permit AQ0215MSS03, 11/28/2012]
[40 CFR 71.6(a)(3)]

19. To protect the 1-hour, 3-hour, 24-hour, and annual SO_2 AAAQS and the 3-hour, 24-hour, and annual SO_2 increment, the Permittee shall burn diesel fuel with a sulfur content of no greater than 0.01 wt%S (100 ppm) in EU IDs 7, 8, 13 through 15 and 17.

[Conditions 17 & 17.1, Minor Permit AQ0215MSS03, 11/28/2012]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

19.1. Monitor, record, and report as follows:

[Condition 17.1a, Minor Permit AQ0215MSS03, 11/28/2012]
[40 CFR 71.6(a)(3)]

a. Obtain a statement or receipt from the fuel supplier certifying the maximum sulfur content of the fuel for each shipment of fuel delivered to DHPP. If a certified statement or receipt is not available from the supplier, analyze a representative sample of any fuel added to any tank in accordance with Condition 19.1.b.

[Condition 17.1a(i), Minor Permit AQ0215MSS03, 11/28/2012]

b. If required under this permit to determine the sulfur content of fuel oil, analyze fuel sulfur content in accordance with Condition 9.2.

[Condition 17.1a(ii), Minor Permit AQ0215MSS03, 11/28/2012]

c. Except as indicated in Condition 19.1.d, calculate and record the sulfur content, by weight, of the fuel in each tank, after each time fuel is added to a tank, using Equation 1.

[Condition 17.1a(iv), Minor Permit AQ0215MSS03, 11/28/2012]

Equation 1

$$S_T = \frac{(Q_D \times S_D)+(Q_{BD} \times S_{BD})}{Q_T}$$

Where:

Q_D = quantity of delivered fuel, pounds

S_D = sulfur content of delivered fuel, percent sulfur by weight (wt%S)

Q_{BD} = quantity of fuel in tank before delivery, pounds

S_{BD} = sulfur content of fuel in tank before delivery, percent sulfur by weight

S_T = sulfur content of blended fuel in the tank, percent sulfur by weight (will be S_{BD} for next calculation)

Q_T = total quantity of fuel in tank ($Q_D + Q_{BD}$), pounds

d. If the fuel sulfur content in a given tank (S_{BD}) is less than 0.01 wt%S and the sulfur content of a given fuel oil delivery is less than 0.01 wt%S, then the Permittee may forego fuel sulfur content calculations in Condition 19.1.c for that delivery. If the Permittee foregoes fuel sulfur content calculations for a delivery, then for the next fuel delivery for which the fuel sulfur content is greater than 0.01 wt%S, the Permittee shall either

[Condition 17.1a(v), Minor Permit AQ0215MSS03, 11/28/2012]

(i) assume the fuel sulfur content of the fuel in the tank is 0.01 wt%S; or

(ii) test the fuel sulfur content of the fuel in the tank in accordance with Condition 19.1.b.

[Conditions 17.1a(v)(A) & 17.1a(v)(B), Minor Permit AQ0215MSS03, 11/28/2012]

e. Keep records of statements or receipts from the fuel supplier showing sulfur content and quantity of each shipment of fuel under Condition 19.1.a, results of each sulfur measurement required under Condition 19.1.a, and each fuel sulfur calculation conducted under Condition 19.1.c.

f. If the fuel sulfur content combusted in any of EU IDs 7, 8, 13 through 15 and 17 exceeds 0.01 wt%S, report in accordance with Condition 63.

[Conditions 17.1a(vi) & 17.1a(vii), Minor Permit AQ0215MSS03, 11/28/2012]

g. Include copies of the records required by Condition 19.1.e in the operating report required in Condition 64.

[40 CFR 71.6(c)(6)]

20. To protect the 24-hour PM-10 increment and 24-hour PM-2.5 AAAQS, the Permittee shall operate EU ID 17 only 12 hours or less in any rolling 24-hour period.

[Conditions 18 & 18.1, Minor Permit AQ0215MSS03, 11/28/2012]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

20.1. Record the start and stop times and dates for EU ID 17.

[40 CFR 71.6(a)(3) & 71.6(c)(6)]

20.2. Calculate and record the hours of operation of EU ID 17 for each consecutive 24-hour period.

[40 CFR 71.6(a)(3) & 71.6(c)(6)]

20.3. Include the information in Conditions 20.1 and 20.2 in the operating report required in Condition 64.

[Conditions 18.1a & 18.1b, Minor Permit AQ0215MSS03, 11/28/2012]
[40 CFR 71.6(a)(3) & 71.6(c)(6)]

20.4. Report in accordance with Condition 63 if EU ID 17 is operated for more than 12 hours in any rolling 24-hour period.

[Condition 18.1c, Minor Permit AQ0215MSS03, 11/28/2012]
[40 CFR 71.6(a)(3)]

Owner Requested Limits (ORLs)

21. ORL to Avoid PSD Review for SO_2 and VOCs. The Permittee shall limit emissions of VOCs to no more than 51.2 tons per year and emissions of SO_2 to no more than 46.8 tons per year by complying with the following:

[Condition 22, Minor Permit AQ0215MSS03, 11/28/2012]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

21.1. Comply with Condition 19.

[Condition 22.2, Minor Permit AQ0215MSS03, 11/28/2012]

21.2. The Permittee shall calculate and report actual VOC and SO_2 emissions as follows:

a. Maintain a dedicated fuel meter on each of EU IDs 7, 8, and 13 through 15.

(i) Monitor and record the monthly fuel usage for each of EU IDs 7, 8, and 13 through 15.

b. Before the end of each calendar month, calculate and record the combined VOC emissions from EU IDs 7, 8, and 13 through 15 for the previous month, using Equation 2 and fuel use records from Condition 21.2.a(i), Equation 3 and power production records from Condition 22.1.a, and VOC emission factors in Table D or more recent emission factors from a Department accepted source test.

Equation 2

$$VOC_{EU} = \frac{Fuel_{EU} * EF_{EU} * 0.139}{2000}$$

Where:
VOC_{EU} = monthly VOC emissions for an individual EU in tons
$Fuel_{EU}$ = fuel combusted in a calendar month for an individual EU in gallons
EF_{EU} = VOC emission factor for an individual EU in lb/MMBtu
0.139 = assumed energy content of liquid fuel in MMBtu/gallon
2000 = pounds per ton conversion factor

Equation 3

$$VOC_{EU} = \frac{kWhr_{EU} * EF_{EU}}{453.6 * 2000}$$

Where:
VOC_{EU} = monthly VOC emissions for an individual EU in tons
kW-hr_{EU} = monthly energy produced for an individual EU in kilowatt hours
EF_{EU} = VOC emission factor for an individual EU in g/kW-hr
453.6 = grams per pound conversion factor

Table D: VOC Emission Factors

EU ID	Emission Factor
7	0.082 lb/MMBtu
8	0.082 lb/MMBtu
13	0.082 lb/MMBtu
14	0.082 lb/MMBtu
15	0.64 g/kW-hr

c. Calculate the 12-month rolling VOC emissions by adding the previous 11 months.

d. Before the end of each calendar month, calculate and record the combined SO_2 emissions from EU IDs 7, 8, and 13 through 15 for the previous month, using the mass balance calculation in Equation 4.

Equation 4

$$SO_2 = \frac{M_{fuel} * 0.0001 * 7 * 2}{2000}$$

Where: *SO_2 = monthly SO_2 emissions for EU IDs 7, 8, and 13–15 in tons*
M_{fuel} = monthly fuel usage for EU IDs 7, 8, & 13–15 combined, in gallons
0.0001 = maximum allowable sulfur content for EU IDs 7, 8, & 13–15, in lb S/lb fuel
7 = assumed density of liquid fuel in pound per gallon
2 = moles of SO_2 produced per mole of sulfur in fuel
2000 = pounds per ton conversion factor

e. Calculate the 12-month rolling SO_2 emissions by adding the previous 11 months.

f. Include copies of the records required in Conditions 21.2.b through 21.2.e in the operating report required in Condition 64.

g. Report in accordance with Condition 63 if the combined VOC emissions calculated under Condition 21.2.c exceeds 51.2 tpy or if the combined SO_2 emissions calculated under Condition 21.2.e exceeds 46.8 tpy.

[Condition 11, Minor Permit AQ0215MSS05, 5/13/2020]
[40 CFR 71.6(a)(3)]

22. **ORL to Avoid PSD Review for PM-10.** The Permittee shall limit PM-10 emissions from EU IDs 7, 8, 13, 14, 15, and 17 to no more than 22.3 tons per year and shall calculate actual PM-10 emissions as follows:

[Condition 13, Minor Permit AQ0215MSS05, 5/13/2020]
[18 AAC 50.040(j) & 50.326(j)]

[40 CFR 71.6(a)(1)]

22.1. Maintain a dedicated kilowatt meter with an accuracy of plus or minus two percent on EU IDs 7, 8, 13 through 15, and 17.

a. Monitor and record the monthly kilowatts produced by EU IDs 7, 8, 13 through 15, and 17.

[Conditions 13.1 & 13.1a, Minor Permit AQ0215MSS05, 5/13/2020]
[40 CFR 71.6(a)(3)]

22.2. Before the end of each calendar month calculate and record the combined PM-10 emissions from EU IDs 7, 8, 13, 14, 15, and 17 for the previous month using Equation 5 and fuel use records from Condition 21.2.a(i), Equation 6 and power production records from Condition 22.1.a, and PM-10 emission factors in Table E or more recent emission factors from a Department accepted source test.

Equation 5

$$PM_{10} = \frac{Fuel_{EU} * EF_{EU} * 0.139}{2000}$$

Where: PM_{10} = *monthly* PM_{10} *emissions for an individual EU in tons*
$Fuel_{EU}$ = *fuel combusted in a calendar month for an individual EU in gallons*
EF_{EU} = PM_{10} *emission factor for an individual EU in lb/MMBtu*
0.139 = assumed energy content of liquid fuel in MMBtu/gallon
2000 = pounds per ton conversion factor

Equation 6

$$PM_{10} = \frac{kWhr_{EU} * EF_{EU}}{453.6 * 2000}$$

Where: PM_{10} = *monthly* PM_{10} *emissions for an individual EU in tons*
kW-hr$_{EU}$ = *monthly power produced for an individual EU in kilowatt hours*
EF_{EU} = PM_{10} *emission factor for an individual EU in g/kW-hr*
453.6 = grams per pound conversion factor

Table E – PM-10 Emission Factors

EU ID	Emission Factor
7	0.573 lb/MMBtu
8	0.573 lb/MMBtu
13	0.187 g/kW-hr
14	0.187 g/kW-hr
15	0.394 g/kW-hr
17	0.2 g/kW-hr

22.3. Calculate the 12-month rolling PM-10 emissions by adding the previous 11 months.

22.4. Report the information in Conditions 22.2 and 22.3 in the operating report required in Condition 64.

22.5. Report in accordance with Condition 63 if the combined PM-10 emissions calculated under Condition 22.3 exceed the limit in Condition 22.

[Conditions 13.2 –13.5, Minor Permit AQ0215MSS05, 5/13/2020]
[40 CFR 71.6(a)(3)]

22.6. The Permittee shall source test EU ID 15 and either EU ID 13 or 14 for PM-10 emissions within one year of the issue date of this operating permit to verify the emission factors in Table E.

a. Testing shall be conducted:

(i) In accordance with the requirements of Section 6 of this permit, and

(ii) within ± 10 percent of 50 and 75 percent of maximum possible load and within ± 10 percent of 100 percent of maximum possible or maximum achievable load.

b. Three one-hour runs shall be conducted at each load specified in Condition 22.6.a(ii).

c. A source test conducted up to 12 months prior to the issued date of this operating permit will meet the requirement of Condition 22.6.

[40 CFR 71.6(a)(3) & 71.6(c)(6)]

23. ORL to Avoid PSD Review for NOx. The Permittee shall limit the combined NOx emissions from EU IDs 7 and 16 to no more than 161.7 tons per year and shall calculate actual NOx emissions as follows:

23.1. Install and maintain a dedicated kilowatt meter with an accuracy of plus or minus two percent on EU ID 16.

a. Monitor and record the monthly kilowatts produced by EU ID 16.

23.2. Before the end of each calendar month calculate and record the combined NOx emissions from EU IDs 7 and 16 for the previous month using Equation 7 and power production records from Conditions 22.1.a and 23.1.a, and NOx emission factors in Table F or more recent emission factors from a Department accepted source test.

Equation 7

$$NOx = \frac{kWhr_7 * EF_7 + kWhr_{16} * EF_{16}}{453.6 * 2000}$$

Where: *NOx = monthly NOx emissions for EU IDs 7 & 16 combined, in tons*
kW-hr = monthly energy produced for an individual EU, in kilowatt hours
EF = NOx emission factor for an individual EU, in g/kW-hr
453.6 = grams per pound conversion factor

Table F – NOx Emission Factors

EU ID	Emission Factor
7	17.7 g/kW-hr
16	8.83 g/kW-hr

23.3. Calculate the 12-month rolling NOx emissions by adding the previous 11 months.

23.4. Include copies of the record required under Conditions 23.2 and 23.3 in the operating report required in Condition 64.

23.5. Report in accordance with Condition 63 if the combined NOx emissions calculated under Condition 23.3 exceed the limit in Condition 23.

24. **Power Production Limit.** The Permittee shall limit the power produced by EU ID 16 to no greater than 3,760 kWe for any given hour. Demonstrate compliance as follows:

24.1. Monitor and record hourly power production for EU ID 16.

a. Identify the highest hourly power produced for each calendar day and the highest hourly power produced for each calendar month.

24.2. Include the highest hourly power produced (kWe) by EU ID 16 and the date on which it occurred, for each calendar month of the reporting period.

24.3. Report in accordance with Condition 63 any time the power produced by EU ID 16 exceeds the limit in Condition 24.

Insignificant Emissions Units

25. For emissions 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:

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

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

25.2. **Particulate Matter Standard**: 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)]

25.3. **Sulfur Standard**: The Permittee shall not cause or allow sulfur compound emissions, expressed as SO_2, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

[18 AAC 50.055(c)]

25.4. General MR&R for Insignificant Emissions Units

a. The Permittee shall submit the compliance certifications of Condition 65 based on reasonable inquiry;

b. The Permittee shall comply with the requirements of Condition 46;

c. The Permittee shall report in the operating report required by Condition 64 if an emissions unit has historically been classified as insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) and current actual emissions become greater than any of those thresholds; and

d. No other monitoring, recordkeeping or reporting is required.

[18 AAC 50.346(b)(4)]

Section 4. Federal Requirements

For this section of this permit, the Department defines the "the Administrator" to mean "the EPA Administrator and the Department".

40 CFR Part 60 New Source Performance Standards

Subpart A

26. New Source Performance Standards (NSPS) Subpart A Notification. For any affected facility[4] or existing facility[5] regulated under NSPS requirements in 40 CFR 60, the Permittee shall furnish the Administrator written notification or, if acceptable to both the Administrator and the Permittee, electronic notification, as follows:

[18 AAC 50.035 & 50.040(a)(1)]
[40 CFR 60.7(a) & 60.15(d), Subpart A]

26.1. A notification of any proposed replacement of components of an existing facility, for which the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, postmarked as soon as practicable, but no less than 60 days before commencement of replacement, and including the following information:

[40 CFR 60.15(d), Subpart A]

a. the name and address of owner or operator,

b. the location of the existing facility,

c. a brief description of the existing facility and the components that are to be replaced,

d. a description of the existing and proposed air pollution control equipment,

e. an estimate of the fixed capital cost of the replacements, and of constructing a comparable entirely new facility,

f. the estimated life of the existing facility after the replacements, and

g. a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

[4] *Affected facility* means, with reference to a stationary source, any apparatus to which a standard applies, as defined in 40 CFR 60.2.

[5] *Existing facility* means, with reference to a stationary source, any apparatus of the type for which a standard is promulgated in this part, and the construction or modification of which was commenced before the date of proposal of that standard; or any apparatus which could be altered in such a way as to be of that type, as defined in 40 CFR 60.2.

27. **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 28. 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)]
[40 CFR 60.12, Subpart A]

Subpart IIII

28. For EU IDs 15 through 17 listed in Table A, the Permittee shall comply with the following applicable requirements of NSPS Subpart IIII for stationary compression ignition (CI) internal combustion engines (ICE) whose construction, modification, or reconstruction commences after July 11, 2005.

[18 AAC 50.040(a)(2)(OO), 50.040(j)(4), & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 60.4200(a), Subpart IIII]

28.1. Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in Conditions 28.3 through 28.5 over the entire life of the engine.

[40 CFR 71.6(a)(1)]
[40 CFR 60.4206, Subpart IIII]

28.2. Comply with the applicable provisions of Subpart A as specified in Table 8 to Subpart IIII.

[40 CFR 71.6(a)(1)]
[40 CFR 60.4218 & Table 8, Subpart IIII]

NSPS Subpart IIII Emission Standards

28.3. For EU IDs 15 and 16, the Permittee must comply with the following emission standards:

a. 9.8 g/kW-hr of THC + NOx

b. 5.0 g/kW-hr of CO

c. 0.50 g/kW-hr of PM

[40 CFR 71.6(a)(1)]
[40 CFR 60.4201(d)(1) & (3) & 60.4204(b), Subpart IIII]

28.4. For EU ID 17, the Permittee must comply with the following emission standards:

a. 4.0 g/kW-hr of NMHC + NOx

b. 3.5 g/kW-hr of CO

c. 0.20 g/kW-hr of PM

[40 CFR 71.6(a)(1)]
[40 CFR 60.4202(a)(2) & 60.4205(b), Subpart IIII]

28.5. Notwithstanding the requirements in Condition 28.4, EU ID 17 may be certified to the provisions of 40 CFR part 94.

[40 CFR 60.4202(g) & (g)(1), Subpart IIII]

28.6. For EU IDs 15 through 17, the Permittee shall comply with the following:

a. Owners and operators who conduct performance tests in-use must meet the not-to-exceed (NTE) standards as indicated in 40 CFR 60.4212.

[40 CFR 71.6(a)(3)]
[40 CFR 60.4204(d) & 60.4205(e), Subpart IIII]

NSPS Subpart IIII Compliance Requirements

28.7. For EU IDs 15 through 17, the Permittee shall comply with the following:

a. You must do all of the following, except as permitted under Condition 28.7.c:

[40 CFR 71.6(a)(3)]
[40 CFR 60.4211(a), Subpart IIII]

(i) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;

(ii) Change only those emission-related settings that are permitted by the manufacturer; and

(iii) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

[40 CFR 60.4211(a)(1) through (3), Subpart IIII]

b. You must comply with Conditions 28.3 and 28.4 by purchasing an engine certified to the emission standards in Condition 28.3 or 28.4, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in Condition 28.7.c.

[40 CFR 71.6(a)(3)]
[40 CFR 60.4211(c), Subpart IIII]

c. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

[40 CFR 71.6(a)(3)]
[40 CFR 60.4211(g), Subpart IIII]

(i) For EU ID 17, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.

(ii) For EU IDs 15 and 16, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 CFR 60.4211(g)(2) & (3), Subpart IIII]

28.8. For EU ID 17, the Permittee shall comply with the following:

a. You must operate the emergency stationary ICE according to the requirements in Conditions 28.8.a(i) through 28.8.a(iii). In order for the engine to be considered an emergency stationary ICE under NSPS Subpart IIII, any operation other than emergency operation, maintenance and testing, and operation in nonemergency situations for 50 hours per year, as described in Conditions 28.8.a(i) through 28.8.a(iii), is prohibited. If you do not operate the engine according to the requirements in Conditions 28.8.a(i) through 28.8.a(iii), the engine will not be considered an emergency engine under NSPS Subpart IIII and must meet all requirements for non-emergency engines.

[40 CFR 71.6(a)(3)]
[40 CFR 60.4211(f), Subpart IIII]

(i) There is no time limit on the use of emergency stationary ICE in emergency situations.

(ii) You may operate your emergency stationary ICE for the purpose specified in Condition 28.8.a(ii)(A) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition 28.8.a(iii) counts as part of the 100 hours per calendar year allowed by this paragraph.

[40 CFR 60.4211(f)(1) & (2), Subpart IIII]

(A) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

[40 CFR 60.4211(f)(2)(i), Subpart IIII]

(iii) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Condition 28.8.a(ii). Except as provided in Condition 28.8.a(iii)(A), the 50 hours per calendar year for nonemergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[40 CFR 60.4211(f)(3), Subpart IIII]

(A) The 50 hours per year for nonemergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions of 40 CFR 60.4211(f)(3)(i)(A) through (E) are met.

[40 CFR 60.4211(f)(3)(i), Subpart IIII]

NSPS Subpart IIII Test Methods

28.9. Owners and operators who conduct performance tests pursuant to NSPS Subpart IIII must do so according to 40 CFR 60.4212(a) through (e).

[40 CFR 71.6(a)(3)]
[40 CFR 60.4212, Subpart IIII]

NSPS Subpart IIII Notification, Reporting, and Recordkeeping Requirements

28.10. For EU IDs 15 and 16, the Permittee must keep records of the following information:

[40 CFR 71.6(a)(3)]
[40 CFR 60.4214(a) & (a)(2), Subpart IIII]

a. All notifications submitted to comply with NSPS Subpart IIII and all documentation supporting any notification.

b. Maintenance conducted on the engine.

c. Documentation from the manufacturer that the engine is certified to meet the emission standards.

[40 CFR 60.4214(a)(2)(i) through (iii), Subpart IIII]

28.11. If EU ID 17 operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Condition 28.8.a(iii)(A), you must submit an annual report according to the requirements in 40 CFR 60.4214(d)(1) through (3).

[40 CFR 71.6(a)(3)]
[40 CFR 60.4214(d), Subpart IIII]

40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants

Subparts A & M

29. The Permittee shall comply with the applicable requirements set forth in 40 CFR 61.145, 61.150, and 61.152 of Subpart M, and the applicable sections set forth in 40 CFR 61, Subpart A and Appendix A.

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

40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants

Subpart A

30. National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart A. For EU IDs 7, 8, 13, and 14, the Permittee shall comply with the applicable requirements of 40 CFR 63 Subpart A in accordance with the provisions for applicability of Subpart A in Subpart ZZZZ, Table 8.

[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 63.6665 & Table 8, Subpart ZZZZ]

Subpart ZZZZ

31. NESHAP Subpart ZZZZ Applicability. For EU IDs 7, 8, and 13 through 17 listed in Table A, the Permittee shall comply with the following applicable requirements of NESHAP Subpart ZZZZ for stationary reciprocating internal combustion engines (RICE) located at an area source of hazardous air pollutant (HAP) emissions.

[18 AAC 50.040(c)(23) & (j); 18 AAC 50.326(j)]

40 CFR 71.6((a)(1)
[40 CFR 63.6585 & 63.6590, Subpart ZZZZ]

31.1. For EU IDs 15 through 17, the Permittee must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines. No further requirements apply for such engines under 40 CFR 63.

[40 CFR 63.6590(c), Subpart ZZZZ]
[40 CFR 71.6(a)(1)]

NESHAP Subpart ZZZZ Emission Limitations, Operating Limitations, and Other Requirements

31.2. For EU IDs 7, 8, 13, and 14, the Permittee shall comply with the following:

[40 CFR 63.6603(a), (b), & (b)(1); Subpart ZZZZ]
[40 CFR 71.6(a)(1)]

a. You must meet the following requirements, except during periods of startup:

(i) Change oil and filter every 1,000 hours of operation or annually, whichever comes first;

(ii) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

(iii) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[Table 2d, Item 1, Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

b. You have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Condition 31.2.a(i). The oil analysis must be performed at the same frequency specified for changing the oil in Condition 31.2.a(i). The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[40 CFR 63.6625(i) & Table 2d, Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

31.3. For EU IDs 7, 8, 13, and 14, during periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[40 CFR 63.6625(h) & Table 2d, Subpart ZZZZ]
[40 CFR 71.6(a)(1)]

NESHAP Subpart ZZZZ General Requirements

31.4. For EU IDs 7, 8, 13, and 14, the Permittee shall comply with the following:

a. You must be in compliance with the requirements under Condition 31 at all times.

b. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.6605(a) & (b), Subpart ZZZZ]
[40 CFR 71.6(a)(1)]

NESHAP Subpart ZZZZ Requirements for Demonstration of Continuous Compliance with Emission Limitations, Operating Limitations, and Other Requirements

31.5. For EU IDs 7, 8, 13, and 14, you must demonstrate continuous compliance with each requirement in Condition 31.2.a by:

[40 CFR 63.6640(a), Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

a. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

b. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[Table 6, Item 9; Subpart ZZZZ]

NESHAP Subpart ZZZZ Recordkeeping Requirements

31.6. For EU IDs 7, 8, 13, and 14, the Permittee shall comply with the following:

a. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.

[40 CFR 63.6655(e), Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

b. Your records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).

c. As specified in 40 CFR 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

d. You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1).

[40 CFR 63.6660(a) through (c), Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

NESHAP Subpart ZZZZ Reporting Requirements

31.7. For EU IDs 7, 8, 13, and 14, the Permittee shall comply with the following:

a. You must report each instance in which you did not meet the requirements in Table 8 to NESHAP Subpart ZZZZ that apply to you.

[40 CFR 63.6640(e), Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

b. You must report all deviations as defined in NESHAP Subpart ZZZZ in the monitoring report required by Condition 64.

[40 CFR 63.6650(f), Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

40 CFR Part 82 Protection of Stratospheric Ozone

32. **Subpart F – Recycling and Emissions Reduction**. The Permittee shall comply with the applicable standards for recycling and emission reduction of refrigerants set forth in 40 CFR 82, Subpart F.

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

33. **Subpart G – Significant New Alternatives.** The Permittee shall comply with the applicable prohibitions set out in 40 CFR 82.174.

[18 AAC 50.040(d) & 50.326(j)]
[40 CFR 82.174(b) through (d), Subpart G]

34. **Subpart H – Halons Emissions Reduction.** The Permittee shall comply with the applicable prohibitions set out in 40 CFR 82.270.

[18 AAC 50.040(d) & 50.326(j)]
[40 CFR 82.270(b) through (f), Subpart H]

General NSPS and NESHAP Requirements

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

35.1. After the effective date of any relevant standard promulgated by the Administrator under this part, an owner or operator who constructs a new affected source that is not major-emitting or reconstructs an affected source that is not major-emitting that is subject to such standard, or reconstructs a source such that the source becomes an affected source subject to the standard, must notify the Administrator and the Department of the intended construction or reconstruction. The notification must be submitted in accordance with the procedures in 40 CFR 63.9(b).

[18 AAC 50.040(c)(1), 50.040(j), & 50.326(j)]
[40 CFR 71.6(a)(3)(ii)]
[40 CFR 63.1(b), 63.5(b)(4), 63.6(c)(1), & 63.10(b)(3), Subpart A]

36. **NSPS and NESHAP Reports.** The Permittee shall:

36.1. **Reports:** Except for federal reports and notices submitted through EPA's Central Data Exchange (CDX) and Compliance and Emissions Data Reporting Interface (CEDRI) online reporting system, attach to the operating report required by Condition 64 for the period covered by the report, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10. For reports submitted through CDX/CEDRI, state in the operating report the date and a brief description of each of the online reports submitted during the reporting period; and

36.2. **Waivers**: Upon request by the Department, provide a written copy of any EPA-granted alternative monitoring requirement, custom monitoring schedule or waiver of the federal emission standards, recordkeeping, monitoring, performance testing, or reporting requirements. The Permittee shall keep a copy of each U.S. EPA-issued monitoring waiver or custom monitoring schedule with the permit.

[18 AAC 50.326(j)(4) & 50.040(j)]
[40 CFR 60.13, 63.10(d) & (f) & 40 CFR 71.6(c)(6)]

Section 5. General Conditions

Standard Terms and Conditions

37. Each permit term and condition is independent of the permit as a whole and remains valid regardless of a challenge to any other part of the permit.

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

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

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

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

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

40. **Administration Fees.** The Permittee shall pay to the Department all assessed permit administration fees. Administration fee rates are set out in 18 AAC 50.400-403.

[18 AAC 50.326(j)(1), 50.400, & 50.403]
[AS 37.10.052(b) & AS 46.14.240]

41. **Assessable Emissions.** The Permittee shall pay to the Department annual emission fees 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. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit in quantities 10 tons per year or greater. The quantity for which fees will be assessed is the lesser of

41.1. the stationary source's assessable potential to emit of 1,427 tpy; or

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

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, including appropriate vendor-provided emissions factors when sufficient documentation is provided.

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

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

42.1. no later than March 31 of each year, the Permittee may submit an estimate of the stationary source's assessable emissions to ADEC, Air Permits Program, ATTN: Assessable Emissions Estimate, 410 Willoughby Ave., Suite 303, PO Box 111800, Juneau, AK 99811-1800; the submittal must include all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates; or

42.2. 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 out in Condition 41.1.

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

43. 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)]

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

[18 AAC 50.045(d), 50.040(e), 50. 326(j)(3), & 50.346(c)]

44.1. The Permittee shall keep records of:

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

b. any additional precautions that are taken

(i) to address complaints described in Condition 44.1.a or to address the results of Department inspections that found potential problems; and

(ii) to prevent future dust problems.

44.2. The Permittee shall report according to Condition 46.

45. 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 stationary 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)]

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

[18 AAC 50.110, 50.040(e), 50.326(j)(3) & 50.346(a)]
[40 CFR 71.6(a)(3)]

46.1. Monitoring, Recordkeeping, and Reporting for Condition 46:

a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 63.

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 46.

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

(i) 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 46; or

(ii) the Department notifies the Permittee that it has found a violation of Condition 46.

d. The Permittee shall keep records of

(i) the date, time, and nature of all emissions complaints received;

(ii) the name of the person or persons that complained, if known;

(iii) a summary of any investigation, including reasons the Permittee does or does not believe the emissions have caused a violation of Condition 46; and

(iv) any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

e. With each stationary source operating report under Condition 64, the Permittee shall include a brief summary report which must include

(i) the number of complaints received;

(ii) the number of times the Permittee or the Department found corrective action necessary;

(iii) the number of times action was taken on a complaint within 24 hours; and

(iv) the status of corrective actions the Permittee or Department found necessary that were not taken within 24 hours.

f. 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.

47. **Technology-Based Emission Standard.** If an unavoidable emergency, malfunction (as defined in 18 AAC 50.235(d)), or non-routine repair (as defined in 18 AAC 50.990(64), causes emissions in excess of a technology-based emission standard[6] listed in Conditions 13, 14, 15, 28 and 32 (refrigerants), the Permittee shall

47.1. take all reasonable steps to minimize levels of emissions that exceed the standard, and

47.2. report in accordance with Condition 63; the report must include information on the steps taken to mitigate emissions and corrective measures taken or to be taken.

[18 AAC 50.235(a), 50.326(j)(4), & 50.040(j)(4)]
[40 CFR 71.6(c)(6)]

Open Burning Requirements

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

48.1. keep written records to demonstrate that the Permittee complies with the limitations in this condition and the requirements of 18 AAC 50.065. Upon request by the Department, submit copies of the records; and

48.2. include this condition in the annual certification required under Condition 65.

[18 AAC 50.065, 50.040(j), & 50.326(j)]
[40 CFR 71.6(a)(3)]

[6] As defined in 18 AAC 50.990(106), the term "*technology-based emission standard*" means a best available control technology (BACT) standard; a lowest achievable emission rate (LAER) standard; a maximum achievable control technology (MACT) standard established under 40 CFR 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.

Section 6. General Source Testing and Monitoring Requirements

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

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

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

[18 AAC 50.220(b)]

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

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

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

51.1. 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 CFR 60.

[18 AAC 50.220(c)(1)(A) & 50.040(a)]
[40 CFR 60]

51.2. Source testing for compliance with requirements adopted by reference in 18 AAC 50.040(b) must be conducted in accordance with the methods and procedures specified in 40 CFR 61.

[18 AAC 50.040(b) & 50.220(c)(1)(B)]
[40 CFR 61]

51.3. Source testing for compliance with requirements adopted by reference in 18 AAC 50.040(c) must be conducted in accordance with the source test methods and procedures specified in 40 CFR 63.

[18 AAC 50.040(c) & 50.220(c)(1)(C)]
[40 CFR 63]

51.4. 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. The Permittee may use the form in Section 11 to record data.

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

51.5. 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 CFR 60, Appendix A.

[18 AAC 50.040(a)(3) & 50.220(c)(1)(E)]
[40 CFR 60, Appendix A]

51.6. Source testing for emissions of $PM_{2.5}$ and PM_{10} must be conducted in accordance with the procedures specified in 40 CFR 51, Appendix M, Methods 201 or 201A and 202.

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

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

[18 AAC 50.040(c)(32) & 50.220(c)(2)]
[40 CFR 63, Appendix A, Method 301]

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

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

53. **Test Exemption.** The Permittee is not required to comply with Conditions 55, 56 and 57 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.3) or Smoke/No Smoke Plan (Condition 2.4).

[18 AAC 50.345(a)]

54. **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)]

55. **Test Plans.** Except as provided in Condition 53, 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 emissions unit will operate during the test and how the Permittee will document that operation. The Permittee shall submit a complete plan within 60 days after receiving a request under Condition 49 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 done without resubmitting the plan.

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

56. **Test Notification.** Except as provided in Condition 53, 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)]

57. **Test Reports.** Except as provided in Condition 53, within 60 days after completing a source test, the Permittee shall submit one certified copy 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 Condition 60. 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)]

58. **Particulate Matter Calculations.** In source testing for compliance with the particulate matter standards in Conditions 5 and 25.2, the three-hour average is determined using the average of three one-hour test runs.

[18 AAC 50.220(f)]

Section 7. General Recordkeeping and Reporting Requirements

Recordkeeping Requirements

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

[18 AAC 50.040(a)(1) & 50.326(j)]
[40 C.F.R 60.7(f), Subpart A, 40 C.F.R 71.6(a)(3)(ii)(B)]

59.1. Copies of all reports and certifications submitted pursuant to this section of the permit; and

59.2. 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

60. Certification. The Permittee shall certify any permit application, report, affirmation, or compliance certification submitted to the Department and required under the permit by including the signature of a responsible official for the permitted stationary source following the statement: *"Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete."* Excess emission reports must be certified either upon submittal or with an operating report required for the same reporting period. All other reports and other documents must be certified upon submittal.

60.1. 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 09.80.020 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 60.1.a, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature.

[18 AAC 50.345(a) & (j), 50.205, & 50.326(j)]
[40 CFR 71.6(a)(3)(iii)(A)]

61. Submittals. Unless otherwise directed by the Department or this permit, the Permittee shall submit reports, compliance certifications, and/or other submittals required by this permit, to ADEC, Air Permits Program, 610 University Ave., Fairbanks, AK 99709-3643, ATTN: Compliance Technician. The Permittee shall submit the documents either by hard copy or electronically.

61.1. Provide electronic submittals, either by:

a. E-mail under a cover letter using dec.aq.airreports@alaska.gov; or

b. using the Department's Air Online Services at http://dec.alaska.gov/applications/air/airtoolsweb/.

[18 AAC 50.326(j)]
[40 CFR 71.6(a)(3)(iii)(A)]

62. Information Requests. The Permittee shall furnish to the Department, within a reasonable time, any information the Department requests in writing to determine whether cause exists to modify, revoke and reissue, or terminate the permit or to determine compliance with the permit. Upon request, the Permittee shall furnish to the Department copies of records required to be kept by the permit. The Department may require the Permittee to furnish copies of those records directly to the Federal Administrator.

[18 AAC 50.345(a) & (i), 50.200, & 50.326(a) & (j)]
[40 CFR 71.5(a)(2) & 71.6(a)(3)]

63. Excess Emissions and Permit Deviation Reports.

63.1. Except as provided in Condition 46, 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 commences or is discovered, report

(i) emissions that present a potential threat to human health or safety; and

(ii) excess emissions that the Permittee believes to be unavoidable;

b. in accordance with 18 AAC 50.235(a), within two working days after the event commenced or was discovered, report an unavoidable emergency, malfunction, or nonroutine repair that causes emissions in excess of a technology-based emission standard;

c. report all other excess emissions and permit deviations

(i) within 30 days after the end of the month during which the emissions or deviation occurred, except as provided in Condition 63.1.c(iii); or

(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 63.1.c(i); and

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

63.2. When reporting either excess emissions or permit deviations, the Permittee shall report using either the Department's online form, which can be found at http://dec.alaska.gov/applications/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.

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

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

64. Operating Reports. During the life of this permit[7], the Permittee shall submit 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.

64.1. The operating report must include all information required to be in operating reports by other conditions of this permit, for the period covered by the report.

64.2. When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 64.1, the Permittee shall identify

a. the date of the deviation;

b. the equipment involved;

c. the permit condition affected;

d. a description of the excess emissions or permit deviation; and

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

64.3. when excess emissions or permit deviations have already been reported under Condition 63 the Permittee shall cite the date or dates of those reports.

64.4. The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 2.3.e and 2.4.c 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

[7] *Life of this permit* is defined as the permit effective dates, including any periods of reporting obligations that extend beyond the permit effective dates. For example if a permit expires prior to the end of a calendar year, there is still a reporting obligation to provide operating reports for the periods when the permit was in effect.

d. the monitoring result which triggered the additional monitoring.

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

[18 AAC 50.346(b)(6) & 50.326(j)]
[40 CFR 71.6(a)(3)(iii)(A)]

65. Annual Compliance Certification. Each year by March 31, the Permittee shall compile and submit to the Department an annual compliance certification report according to Condition 61.

65.1. 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;

65.2. **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.

65.3. In addition, submit a copy of the report directly to the Clean Air Act Compliance Manager, US EPA Region 10, ATTN: Air Toxics and Enforcement Section, Mail Stop: 20-C04, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101.

[18 AAC 50.205, 50.345(a) & (j), & 50.326(j)]
[40 CFR 71.6(c)(5)]

66. Emission Inventory Reporting. The Permittee shall submit to the Department reports of actual emissions, by emissions unit, of CO, NH_3, NOx, PM_{10}, $PM_{2.5}$, SO_2, VOCs and lead (Pb) (and lead compounds) using the form in Section 14 of this permit, as follows:

66.1. Each year by April 30, if the stationary source's potential to emit for the previous calendar year equals or exceeds:

a. 250 tpy of NH_3, PM_{10}, $PM_{2.5}$ or VOCs; or

b. 2,500 tpy of CO, NO_X or SO_2.

66.2. Every third year by April 30, if the stationary source's potential to emit for the previous calendar year (actual emissions for Pb) equals or exceeds:

a. 0.5 tpy of actual Pb, or

b. 1,000 tpy of CO; or

c. 100 tpy of SO_2, NH_3, PM_{10}, $PM_{2.5}$, NOx or VOCs.

66.3. For reporting under Condition 66.2, the Permittee shall report in 2015 for calendar year 2014, 2018 for calendar year 2017, 2021 for calendar year 2020, etc., in accordance with the Environmental Protection Agency set schedule.

66.4. Include in the report required by this condition, the required data elements contained within the form in Section 14 or those contained in Table 2A of Appendix A to Subpart A of 40 CFR 51 for each stack associated with an emissions unit.

[18 AAC 50.346(b)(8) & 50.200]
[40 CFR 51.15, 51.30(a)(1) & (b)(1), & 40 CFR 51, Appendix A to Subpart A]

Section 8. Permit Changes and Renewal

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

67.1. 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;

67.2. The information shall be submitted to the Air Permits and Toxics Branch, US EPA Region 10, Mail Stop: 15-H13, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101.

67.3. 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

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

[18 AAC 50.040(j)(7), 50.326(a) & 50.346(b)(7)]
[40 CFR 71.10(d)(1)]

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

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 CFR 71.6(a)(8)]

69. 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:

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

69.2. 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;

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

69.4. The Permittee shall keep a record describing changes made at the stationary source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 CFR 71.6(a)(12)]

70. Operational Flexibility. The Permittee may make CAA Section 502(b)(10)[8] 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):

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

70.2. For each such change, the notification required by Condition 70.1 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.

70.3. The permit shield described in 40 CFR 71.6(f) shall not apply to any change made pursuant to Condition 70.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 CFR 71.6(a)(13)]

71. Permit Renewal. To renew this permit, the Permittee shall submit to the Department[9] an application under 18 AAC 50.326 no sooner than March 14, 2022 and no later than March 14, 2023. The renewal application shall be complete before the permit expiration date listed on the cover page of this permit. Permit expiration terminates the stationary 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), 50.326(c) & (j)(2)]
[40 CFR 71.5(a)(1)(iii) & 71.7(b) & (c)(1)(ii)]

[8] As defined in 40 CFR 71.2, CAA Section 502(b)(10) changes are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

[9] Submit permit applications to the Department's Anchorage office. The current address is: Air Permit Intake Clerk, ADEC, 555 Cordova Street, Anchorage, AK 99501.

Section 9. General Compliance Requirements

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

72.1. included and specifically identified in the permit; or

72.2. determined in writing in the permit to be inapplicable.

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

73. The Permittee must comply with each permit term and condition. Noncompliance with a permit term or condition constitutes a violation of AS 46.14, 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

73.1. an enforcement action;

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

73.3. denial of an operating permit renewal application.

[18 AAC 50.040(j), 50.326(j) & 50.345(a) & (c)]

74. For applicable requirements with which the stationary source is in compliance, the Permittee shall continue to comply with such requirements.

[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(A)]

75. It is not a defense in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with a permit term or condition.

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

76. 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

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

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

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

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

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

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

[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(B)]

Section 10. Permit As Shield from Inapplicable Requirements

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

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

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

78.2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.

[18 AAC 50.326(j)]
[40 CFR 71.6(f)(3)(i) & (ii)]

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

[18 AAC 50.326(j)]
[40 CFR 71.6(f)(1)(ii)]

Table G - Permit Shields Granted

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
(3) Diesel Storage Tanks (10,000 gallons each)	40 CFR 60 Subpart K	Two tanks were constructed and installed in 1943. The other was built in 1995.
	40 CFR 60 Subpart Ka	Two tanks were constructed and installed in 1943. The other was built in 1995.
	40 CFR 60 Subpart Kb	Two tanks were constructed and installed prior to 1984. The other was constructed after 1984, but has a capacity of 10,000 gallons.

[18 AAC 50.326(j)]
[40 CFR 71.6(f)(1)(ii)]

Therefore, as long as an application has been submitted within the timeframe specified under 40 CFR 71.5(a)(1)(iii), and is complete before the expiration date of the existing permit, then the expiration of the existing permit is extended and the Permittee has the right to operate under that permit until the effective date of the new permit. However, this protection shall cease to apply if, subsequent to the completeness determination, the applicant fails to submit by the deadline specified in writing by the Department any additional information needed to process the application.

Conditions 72 through 77, General Compliance Requirements

Legal Basis: These conditions require compliance with the applicable requirements in 18 AAC 50.345(b) through (d) and (h) and 40 CFR 71.6(c)(3). As stated in 18 AAC 50.345(a), the requirements in 18 AAC 50.345(b) through (d) and (h) are standard conditions that must be included in all operating permits issued by the Department.

Factual Basis: These are standard conditions for compliance required for all operating permits.

Conditions 78 and 79, Permit Shield

Legal Basis: These conditions require compliance with the requirements in 40 CFR 71.6(f), which the Department has adopted by reference under 18 AAC 50.040(j)(4). These requirements apply because the Permittee has requested that the Department shield the stationary source from specific non-applicable requirements listed under this condition.

Factual Basis: Table G of Operating Permit No. AQ0215TVP04 shows the permit shield that the Department granted to the Permittee. The Department based the determinations on the permit application, past operating permit, likelihood for the source to become subject during the life of the permit, Title I permits and inspection reports.