

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY OPERATING PERMIT

Permit No. AQ0231TVP02
Revision 2: PN Date: October 1, 2009

Issue Date: July 10, 2006
Expiration Date: July 9, 2011

The Department of Environmental Conservation, under the authority of AS 46.14 and 18 AAC 50, issues an operating permit to the Permittee, **Trident Seafoods Corporation**, for the operation of the **Akutan Seafood Processing Facility**.

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 required by AS 46.14.120(c), the Permittee shall comply with the terms and conditions of this operating permit.

Upon the effective date of this permit, the Permittee is no longer required to comply with the terms and conditions of Air Quality Control Permit to Operate No. 9325-AA001 or Air Quality Operating Permit No. AQ0231TVP02 Revision 1.

All terms and conditions of Air Quality Construction Permit No. 9825-AC010 and Air Quality Construction Permit No. 231CP03 Revision 2 have been incorporated into this operating permit.

Revision 2 incorporates modifications and provisions of the Minor permit Number AQ0231MSS01.

This operating permit becomes effective on **<Date + 30 Days>**.

John F. Kuterbach, Manager
Air Permits Program

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List of Abbreviations Used in this Permit

AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
AP-42	EPA report, Compilation of Air Pollutant Emission Factors
AS	Alaska Statutes
ASTM	American Society for Testing and Materials
bhp	boiler horsepower
C.F.R.	Code of Federal Regulations
dscf	Dry standard cubic foot
EF	Emission factor
EPA	US Environmental Protection Agency
gr./dscf	grain per dry standard cubic foot [1 pound = 7000 grains]
gpm	gallons per month
gpy	gallons per year
HAPs	Hazardous Air Pollutants [<i>HAPs</i> as defined in AS 46.14.990(14)]
ID	Emission Unit Identification Number
MMBtu/hr	Million British Thermal Units per hour
MR&R	Monitoring, recordkeeping, and reporting
NESHAPs	Federal National Emission Standards for Hazardous Air Pollutants [<i>NESHAPs</i> as contained in 40 C.F.R. 61 and 63]
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards [<i>NSPS</i> as contained in 40 C.F.R. 60]
O & M	Operation and Maintenance
O ₂	Oxygen
PM-10	Particulate Matter less than 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
RM	Reference Method
S	Sulfur
PTE	Potential to Emit
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO ₂	Sulfur dioxide
TPY	tons per year
TPM	tons per month
VOC	volatile organic compound [<i>VOC</i> as defined in 18 AAC 50.990(121)]
wt percent	weight percent

Identification

Names and Addresses:

Permittee: Trident Seafoods Corporation
5303 Shilshole Ave., N.W.
Seattle, WA 98107-4000

Stationary Source: Akutan Seafood Processing Facility

Location: 54° 08' North; 165° 47' West

Physical Address: Akutan Harbor
Akutan Island, AK 99553

Owner: Trident Seafoods Corporation
5303 Shilshole Ave., N.W.
Seattle, WA 98107-4000

Operator: Same as above

Responsible Official: Mr. Earl Hubbard
Trident Seafoods Corporation
5303 Shilshole Ave., N.W.
Seattle, WA 98107-4000
(206) 783-3818

Designated Agent: Mr. Earl Hubbard, Vice President of Regulatory Affairs
Trident Seafoods Corporation
5303 Shilshole Ave., N.W.
Seattle, WA 98107-4000
(206) 783-3818

Building Contact: Mr. Stephen M. Francis, Environmental, Health & Safety Manager
Trident Seafoods Corporation
Akutan Island, AK 99553
(907) 698-2211

Fee Contact: Mr. Earl Hubbard, Vice President of Regulatory Affairs
Trident Seafoods Corporation
5303 Shilshole Ave., N.W.
Seattle, WA 98107-4000
(206) 783-3818

SIC Codes: 2091, 2092--Prepared Fresh or Frozen Fish and Seafoods

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

Section 1. Emission Unit Inventory and Description

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

Table A – Existing Regulated Emission Unit Information and Equipment by Phase Operations

ID	Source Name	Unit Description	Rating/Size	Install Date	Modified Date	Phase 0	Phase 1	Phase 2	Phase 3	Phase 4
1	Pollock Generator #4	Caterpillar Model D3516B Low NOx Diesel Electric Generator, SN 7RN00229	1,655 kW-e	5/1/94		Yes	Yes	Yes	Yes	Yes
2a	Cod Generator #1	Caterpillar Model D3512B Quad Turbo Low NOx Diesel Electric Generator, SN 8RM00273	1,360 kW-e	1/24/98	11/04	Yes	Yes	Yes	Yes	Yes
3a	Cod Generator #2	Caterpillar Model D3512B Quad Turbo Low NOx Diesel Electric Generator, SN 8RM00274	1,360 kW-e	1/24/98	11/04	Yes	Yes	Yes	Yes	Yes
4b	Pollock Generator #1	Caterpillar Model D3516B Quad Turbo Low NOx Diesel Electric Generator, SN 7RN01420	1,655 kW-e	12/03		Yes				
4c	Pollock Generator #1	Caterpillar Model C175-16 Diesel Electric Generator, SN (TBD)	2,275 kW	12/03	TBD		Yes	Yes	Yes	Yes
5a	Pollock Generator #2	Caterpillar Model D3512B Quad Turbo Low NOx Diesel Electric Generator, SN 8RM00514	1,360 kW-e	6/15/00	11/04	Yes				
5b	Pollock Generator #2	Caterpillar Model D3512B Quad Turbo Low NOx Diesel Electric Generator, SN TBD	1,655 kW		TBD		Yes	Yes	Yes	Yes
6	Pollock Generator #3	Caterpillar Model D3512B Twin Turbo Low NOx Diesel Electric Generator, SN 8EM00253	1,240 kW-e	11/1/99						
6a	Pollock Generator #3	Caterpillar Model D3512B Quad Turbo Low NOx Diesel Electric Generator, SN 8EM00253	1,240 kW	11/1/99	TBD	Yes				
6b	Pollock Generator #3	Caterpillar Model D3512B Quad Turbo Low NOx Diesel Electric Generator, SN TBD	1,360 kW-e	11/1/99	TBD		Yes			
6c	Pollock Generator #3	Caterpillar Model C175-16 Diesel Electric Generator, SN (TBD)	2,275 kW		TBD			Yes	Yes	Yes
7a	Cod Generator #3	Caterpillar Model D3512B Quad Turbo Low NOx Diesel Electric Generator, SN 1GZ01229	1,135 kW-e	11/03						

ID	Source Name	Unit Description	Rating/Size	Install Date	Modified Date	Phase 0	Phase 1	Phase 2	Phase 3	Phase 4
7b	Cod Generator #3	Caterpillar Model D3512B Quad Turbo Low NOx Diesel Electric Generator, SN 1GX01229	1,360 kW	11/03	TBD	Yes	Yes	Yes	Yes	Yes
8	Pollock Boiler #1	Cleaver Brooks Model NCB 100-400 Steam Boiler, SN 85166	16.74 MMBtu/hr	1/15/90		Yes	Yes	Yes	Yes	Yes
9	Pollock Boiler #2	Cleaver Brooks Model NCB 100-400 Steam Boiler, SN 85165	16.74 MMBtu/hr	1/15/90		Yes	Yes	Yes	Yes	Yes
10	Cod Boiler #1	Johnston 516 AC Steam Boiler, SN 4756	5.11 MMBtu/hr	5/1/82		Yes	Yes	Yes	Yes	Yes
11	Cod Boiler #2	Johnston 516 AC Steam Boiler, SN 4757	5.11 MMBtu/hr	5/1/82		Yes	Yes	Yes	Yes	Yes
12	Fish Meal Drier	Pedar Halvorsen Furnace, SN 502511	34.6 MMBtu/hr	7/96		Yes	Yes	Yes	Yes	Yes
23a	Boiler	Cleaver Brooks Model 200-500-150 Steam Boiler, SN L62902	21 MMBtu/hr	10/96	2/22/05	Yes	Yes	Yes	Yes	Yes
24	Boiler	Falcon Boiler, SN M8616	1.02 MMBtu/hr	6/95		Yes	Yes	Yes	Yes	Yes
25	Sealand Engine	Detroit Diesel Series 60 Diesel Electric Generator, SN 06R0096733	350 kW-e	9/95		Yes	Yes	Yes	Yes	Yes
26	Compressor Engine	Caterpillar Model 3508B Twin Turbo Compressor Engine, SN 6PN00401	2.69 MMBtu/hr	1/24/98		Yes	Yes	Yes	Yes	Yes
27	Freshwater Pump House Generator	Caterpillar Model D3512A, Diesel Electric Generator, SN 24Z01359	1,135 kW-e	4/96		Yes	Yes	Yes	Yes	Yes
28	Cod Generator #4	Caterpillar Model D379, Diesel Electric Generator, SN 34Z00770	420 kW-e	6/82		Yes				
28a	Cod Generator #4	Caterpillar Model D3516B, Low NOx Diesel Electric Generator, SN TBD	1,655 kW	TBD			Yes	Yes	Yes	Yes
29 ¹	Cod Generator #5	Caterpillar Model D379, Diesel Electric Generator, SN 34Z00771	420 kW-e	6/82		Yes	Yes			
29a	Cod Generator #5	Caterpillar Model D3512B, Low NOx Diesel Electric Generator, SN TBD	1,655 kW	TBD				Yes	Yes	Yes
30	Trash Incinerator	Therm Tec Model G-50, SN 7916	750 lb trash/hr	2/02		Yes	Yes	Yes	Yes	Yes

¹ The Permittee decommissioned Emission Unit 29 on April 15, 2007 and removed it from Akutan on April 27, 2007 (July 12, 2007 letter from Earl Hubbard to the Department).

ID	Source Name	Unit Description	Rating/Size	Install Date	Modified Date	Phase 0	Phase 1	Phase 2	Phase 3	Phase 4
31	Portable Generator #2	'Portable' Diesel Electric Generator	350 kW		TBD	Yes	Yes	Yes	Yes	Yes
32	Portable Generator #3	'Portable' Diesel Electric Generator	350 kW		TBD	Yes	Yes	Yes	Yes	Yes
33	Cod Generator #6	Caterpillar Model D3512B Quad Turbo Low NOx Diesel Electric Generator, SN n/a	1,655 kW		TBD				Yes	Yes
34	Cod Generator #7	Caterpillar Model D3512B Quad Turbo Low NOx Diesel Electric Generator, SN n/a	1,655 kW		TBD					Yes
T1	Tank #1	Fish Oil Storage Tank	49,750 gallons	1991	Yes	Yes	Yes	Yes	Yes	Yes
T2	Tank #2	Diesel Storage Tank	372,320 gallons	1988	Yes	Yes	Yes	Yes	Yes	Yes
T3	Tank #3	Diesel Storage Tank	372,320 gallons	1988	Yes	Yes	Yes	Yes	Yes	Yes
T4	Tank #4	Diesel Storage Tank	372,320 gallons	1988	Yes	Yes	Yes	Yes	Yes	Yes
T5	Tank #5	Diesel Storage Tank	372,320 gallons	1988	Yes	Yes	Yes	Yes	Yes	Yes
T6	Tank #6	Diesel Storage Tank	216,000 gallons	1982	Yes	Yes	Yes	Yes	Yes	Yes

Table A Notes: The Permittee may substitute Emission Units 25, 31 and/or 32 as described in Condition 33.

Except as noted elsewhere in this permit, the information in Table A is for informational purposes only. The specific unit descriptions do not restrict the Permittee from replacing an emission unit identified in the table.

Phase Operations

1. The Permittee shall select one of the five phases (Phase 0 – Phase 4) described in this permit for operating the Akutan stationary source.
 - 1.1 The Permittee shall notify the Department within 30 days of permit issuance of the selected phase.
 - 1.2 The Permittee may switch phases at their discretion, but only to a numerically higher phase (e.g., from Phase 2 to Phase 3). The Permittee may not switch to a numerically lower phase (e.g., from Phase 4 to Phase 3).
 - 1.3 The Permittee shall notify the Department within 30 days of switching to another phase.
 - 1.4 When operating under a given Phase, the Permittee shall comply with all applicable provisions of that Phase.
 - 1.5 The Permittee shall disconnect emission units not authorized for the selected phase from fuel source and the fuel line(s) capped.
 - 1.6 The Permittee shall not operate in more than one phase at a given time.

[Title I Permit No. AQ0231MSS01, Condition 1, 10/xx/09]

Phase 0 Operations

2. **During Phase 0**, the Permittee is authorized to operate the emission units described in Table A for phase 0, in accordance with the terms and conditions of this permit and the Title I permit application.

[Title I Permit No. AQ0231MSS01, Condition 1, 10/xx/09]

Phase 1 Operations

3. **During Phase 1**, the Permittee is authorized to operate the emission units described in Table A for phase 1, in accordance with the terms and conditions of this permit and the Title I permit application.

[Title I Permit No. AQ0231MSS01, Condition 5, 10/xx/09]

4. Authorization to Install Emission Units 4c, 5b and 28a

[Title I Permit No. AQ0231MSS01, Condition 6, 10/xx/09]

- 4.1 The Permittee is authorized to install, but not operate, Emission Units 4c, 5b and 28a *prior to* Phase 1.
- 4.2 Prior to installing Unit 4c, the Permittee shall
 - a. remove Emission Unit 28,
 - b. relocate Unit 5a to the former location of Unit 28, and rename to Unit 28a, and
 - c. relocate Unit 4b to the former location of Unit 5a and rename to Unit 5b.
- 4.3 The Permittee shall notify the Department of the installation of Emission Unit 4c, Emission Unit 5b, and Emission Unit 28a, in accordance with Condition 38.

5. Authorization to Upgrade Pollock Generator #3

[Title I Permit No. AQ0231MSS01, Condition 7, 10/xx/09]

- 5.1 The Permittee is authorized to upgrade the Pollock Generator #3 generator rating from 1,240 kW to 1,360 kW *prior to* Phase 1. However, the Permittee may *not* operate the upgraded emission unit *prior to* Phase 1.
- 5.2 Upon upgrading the generator rating, the Permittee shall:
 - a. Re-label the Pollock Generator #3 diesel-generator set from Emission Unit 6a to Emission Unit 6b; and
 - b. notify the Department in accordance with Condition 38.

6. Initial Startup Requirements.

The Permittee shall notify the Department in accordance with Condition 38.2 upon initial startup of each of the following Emission Units: 4c, 5b, 6b and 28a.

[Title I Permit No. AQ0231MSS01, Condition 8, 10/xx/09]

Phase 2 Operations

7. During Phase 2,

the Permittee is authorized to operate the emission units described in Table A for Phase 2, in accordance with the terms and conditions of this permit and the minor permit application.

[Title I Permit No. AQ0231MSS01, Condition 9, 10/xx/09]

8. Authorization to Install Emission Units 6c and 29a.

[Title I Permit No. AQ0231MSS01, Condition 10, 10/xx/09]

- 8.1 The Permittee is authorized to install, but not operate, Emission Units 6c and 29a *prior to* Phase 2.
 - 8.2 Before installing Emission Unit 6c, the Permittee shall:
 - a. remove Emission Unit 29,
 - b. relocate Emission Unit 6b to the former location of Emission Unit 29 and rename the relocated unit as Emission Unit 29a.
 - 8.3 Upon installation of Emission Unit 29a, the Permittee shall modify the associated exhaust stack, as needed, in order to comply with Condition 53.3.
 - 8.4 The Permittee shall notify the Department of the installation of Emission Unit 6c and of Emission Unit 29a in accordance with Condition 38.
 - 8.5 When submitting the notification required under Condition 8.4 for Emission Unit 29a, the Permittee shall also include as-built drawings and a photograph that demonstrates the exhaust stack for Unit 29a complies with Condition 53.3.
- ### 9. Initial Startup of Emission Units 6c and 29a.
- The Permittee shall notify the Department in accordance with Condition 38.2 upon initial startup of each of the following Emission Units: 6c and 29a.

[Title I Permit No. AQ0231MSS01, Condition 11, 10/xx/09]

Phase 3 Operations

- 10. During Phase 3**, the Permittee is authorized to operate the emission units described in Table A for Phase 3, in accordance with the terms and conditions of this permit and the minor permit application.

[Title I Permit No. AQ0231MSS01, Condition 12, 10/xx/09]

11. Authorization to Install Emission Unit 33.

- 11.1 The Permittee is authorized to install, but not operate, Emission Unit 33 *prior to* Phase 3.
- 11.2 The Permittee shall notify the Department of the installation of Emission Unit 33 in accordance with Condition 38.
- 11.3 When submitting the notification required under Condition 11.2, the Permittee shall also include as-built drawings and a photograph that demonstrates the exhaust stack for Unit 33 complies with Condition 53.3.

[Title I Permit No. AQ0231MSS01, Condition 13, 10/xx/09]

- 12. Initial Startup of Emission Unit 33.** The Permittee shall notify the Department in accordance with Condition 38.2 of the initial startup of Unit 33.

[Title I Permit No. AQ0231MSS01, Condition 14, 10/xx/08]

Phase 4 Operations

- 13. During Phase 4**, the Permittee is authorized to operate the emission units described in Table A for Phase 4, in accordance with the terms and conditions of this permit and the minor permit application.

[Title I Permit No. AQ0231MSS01, Condition 15, 10/xx/09]

14. Authorization to Install Emission Unit 34.

- 14.1 The Permittee is authorized to install, but not operate, Emission Unit 34 *prior to* Phase 4.
- 14.2 The Permittee shall notify the Department of Unit 34's installation in accordance with Condition 38.
- 14.3 When submitting the notification required under Condition 14.2, the Permittee shall also include as-built drawings and a photograph that demonstrates the exhaust stack for Unit 34 complies with Condition 53.3.

[Title I Permit No. AQ0231MSS01, Condition 16, 10/xx/09]

- 15. Initial Startup of Emission Unit 34.** The Permittee shall notify the Department in accordance with Condition 38.2 of the initial startup of Unit 34.

[Title I Permit No. AQ0231MSS01, Condition 17, 10/xx/09]

Section 2. State Emission Standards

Visible Emissions Standards

16. Industrial Process and Fuel-Burning Equipment Visible Emissions. The Permittee shall not cause or allow visible emissions, excluding water vapor, emitted from the new and modified emission units authorized by this permit to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

16.1 Conduct an initial visible emission surveillance for each new and revised emission unit within 30 days of modification or installation, following 40 C.F.R. 60, appendix A-4, Method 9, adopted by reference in 18 AAC 50.040(a). Conduct observations for 18 minutes to obtain 72 consecutive 15-second opacity observation, and use the Visible Emissions Field Data Sheet and Visible Emissions Observation Record included in Section 11

[AQ0231MSS01. Condition 41, 10/xx/09]
[18 AAC 50.040(j) & 50.055(a)(1), 7/25/08; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]

17. Incinerator Visible Emissions. The Permittee shall comply with the following:

17.1 Do not cause or allow visible emissions, excluding condensed water vapor, through the exhaust of EU ID 30 to reduce visibility by more than 20 percent averaged over any six consecutive minutes

17.2 Monitor, record and report per Conditions 18, 21, and 22.

[18 AAC 50.040(j) & 50.050(a), 7/25/08; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]

Visible Emissions Monitoring, Recordkeeping and Reporting

Liquid Fuel-fired Sources (EU IDs 1, 2a, 3a, 4b, 4c, 5a, 5b, 6, 6a, 6b, 6c, 7a, 7b, 8-12, 23a, 24-28, 28a, 29, 29a, 31-34)

18. Visible Emissions Monitoring. The Permittee shall observe the exhaust of the emission units in the selected operating phase as identified in Table A for visible emissions using either the Method 9 Plan under Condition 19 or the Smoke/No-Smoke Plan under Condition 19.2. The Permittee may change visible-emissions plans for an emission unit at any time unless prohibited from doing so by Condition 20. The Permittee may elect to continue a visible emission monitoring schedule in effect from the previous permit at the time a renewed permit is issued if applicable.

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

19. Method 9 Plan. For all 18-minute observations in this plan, observe exhaust, following 40 C.F.R. 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. For EU IDs 5b, 6c, 28a and 29a observe exhaust for 18 minutes within six months of installation. For any unit, observe exhaust for 18 minutes within 14 calendar days after changing from the Smoke/No-Smoke Plan of Condition 19.2. For any units replaced during the term of this permit, observe exhaust for 18 minutes within 30 days of startup.
- b. Monthly Method 9 Observations. After the first Method 9 observation, perform 18-minute observations at least once in each calendar month that an emission unit operates.

- c. Semiannual Method 9 Observations. After observing emissions for three consecutive operating months under Condition 19.a, unless a six-minute average is greater than 15 percent and one or more observations are greater than 20 percent, perform 18-minute observations at least semiannually.

Semiannual observations must be taken between four and seven months after the previous set of observations.

- 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 at least annually.

Annual observations must be taken between 10 and 13 months after the previous observations

- 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 emission unit to at least monthly intervals, until the criteria in Condition 19.b for semiannual monitoring are met.

19.2 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 emission unit operates.
- b. Reduced Monitoring Frequency. After the emission unit has been observed on 30 consecutive operating days, if the emission unit operated without visible smoke in the exhaust for those 30 days, then observe emissions at least once in every calendar month that an emission unit operates.
- c. Smoke Observed. If smoke is observed, either begin the Method 9 Plan of Condition 19 or perform the corrective action required under Condition 20

20. 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 19.2, then the Permittee shall either follow the Method 9 plan of Condition 19 or

- a. initiate actions to eliminate smoke from the source 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 20.a,
 - (i) take Smoke/No Smoke observations in accordance with Condition 19.2.
 - (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 19.2b; or

- (ii) if the actions taken under Condition 20.a do not eliminate the smoke, or if subsequent smoke is observed under the schedule of Condition 20.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 19.2a.

21. Visible Emissions Recordkeeping. The Permittee shall keep records as follows:

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(ii), 7/2/07]
[AQ0231MSS01. Condition 41, 10/xx/09]

21.1 If using the Method 9 Plan of Condition 19,

- a. the observer shall record
 - (i) the name of the stationary source, emission unit and location, stationary source type, observer's name and affiliation, and the date on the Visible Emissions Field Data Sheet in Section 11;
 - (ii) the time, estimated distance to the emissions location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating rate (load or fuel consumption rate) 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 Emissions Observation 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 18-consecutive-minute averages observed.

21.2 If using the Smoke/No Smoke Plan of Condition 19.2, 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 source 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 source starts operation on the day of the observation, the startup time of the source;
- f. name and title of the person making the observation; and
- g. operating rate (load or fuel consumption rate).

22. Visible Emissions Reporting. The Permittee shall report visible emissions as follows:

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(iii), 7/2/07]
[AQ0231MSS01, Condition 41, 10/xx/09]

22.1 include in each stationary source operating report under Condition 114

- a. which visible-emissions plan of Condition 18 was used for each source; if more than one plan was used, give the time periods covered by each plan;
- b. for each source under the Method 9 Plan,
 - (i) copies of the observation results (i.e. opacity observations) for each source 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-minute average observed; and
 - (C) dates when one or more observed six-minute averages were greater than 20 percent;
- c. for each source 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 record keeping required under Conditions 18 and 21 that was not done;

22.2 report under Condition 113:

- a. the results of Method 9 observations that exceed an average 20 percent for any six-minute period; and
- b. if any monitoring under Condition 18 was not performed when required, report within three days of the date the monitoring was required.

Particulate Matter Emissions Standards

23. Industrial Process and Fuel-Burning Equipment Particulate Matter. The Permittee shall not cause or allow particulate matter emitted from the exhaust of the emission units in the selected operating phase as identified in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

[18 AAC 50.040(j) & 50.055(b)(1), 7/25/08; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]]
[AQ0231MSS01, Condition 42, 10/xx/2009]

- 23.1 Conduct an initial PM test for each new and modified emission unit within 30 days of modification or installation, following 40 C.F.R. 60, Appendix A-4, Method 5, adopted by reference in 18 AAC 50.040(a).
- 23.2 Include copies of the source test results in the next operating report described in Condition 114.
- 23.3 For emission units in the selected operating phase as identified in Table A, monitor, record, and report according to Conditions 24 to 26.
- 23.4 For EU ID(s) 25, 27, 28, and 29, as long as they do not exceed the limits in Condition **Error! Reference source not found.**, monitoring shall consist of an annual compliance certification under Condition 116 with the particulate matter standard.

PM Monitoring, Recordkeeping and Reporting

Liquid-Fired Sources (EU IDs 1, 2a, 3a, 4b, 4c, 5a, 5b, 6, 6a, 6b, 6c, 7a, 7b, 8-12, 23a, 24-28, 28a, 29, 29a, 31-34)

- 24. Particulate Matter Monitoring for Diesel Engines.** The Permittee shall conduct source tests on diesel engines, EU IDs 1, 2a, 3a, 4b, 4c, 5a, 5b, 6, 6a, 6b, 6c, 7a, 7b, 25, 26, 27, 28, 28a, 29c, 31,32, 33, and 34, to determine the concentration of particulate matter (PM) in the exhaust of a source in accordance with this Condition 24.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[AQ0231MSS01, 10/xx/09, 40 C.F.R. 71.6(a)(3)(i), 7/2/07]

- 24.1 Except as provided in Condition 24.4 within six months of exceeding the criteria of Conditions 24.2a or 24.2b, either
 - a. conduct a PM source test according to requirements set out in Section 6; or
 - b. make repairs so that emissions no longer exceed the criteria of Condition 24.2; to show that emissions are below those criteria, observe emissions as described in Condition 19 under load conditions comparable to those when the criteria were exceeded.
- 24.2 Conduct the test according to Condition 24.1 if
 - a. 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity greater than 20 percent; or
 - b. for an emission 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.
- 24.3 During each one-hour PM 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.
- 24.4 The automatic PM source test requirement in Conditions 24.1 and 24.2 is waived for an emissions unit if a PM source test on that unit has shown compliance with the PM standard during this permit term.

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

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

25.1 report under Condition 113

- a. the results of any PM source test that exceeds the PM emissions limit; or
- b. if one of the criteria of Condition 24.2 was exceeded and the Permittee did not comply with either Condition 24.1a or 24.1b, this must be reported by the day following the day compliance with Condition 24.1 was required;

25.2 report observations in excess of the threshold of Condition 24.2b within 30 days of the end of the month in which the observations occur;

25.3 in each stationary source operating report under Condition 114 include

- a. the dates, EU ID(s), and results when an observed 18-minute average was greater than an applicable threshold in Condition 24.2;
- b. a summary of the results of any PM testing under Condition 24; and
- c. copies of any visible emissions observation results (opacity observations) greater than the thresholds of Condition 24.2, if they were not already submitted.

For Liquid-Fired Boilers and Heaters

26. Particulate Matter Monitoring. The Permittee shall conduct source tests on EU IDs 8, 9, 10, 11, 23a, and 24 to determine the concentration of PM in the exhaust as follows:

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

26.1 Conduct an initial PM test for each new or modified emission unit within 30 days of modification or installation, following 40 C.F.R. 60, Appendix A-4, Method 5, adopted by reference in 18 AAC 50.040(a).

26.2 Conduct a PM source test according to the requirements set out in Section 6 no later than 90 calendar days after any time corrective maintenance fails to eliminate visible emissions greater than the 20 percent opacity threshold for two or more 18-minute observations in a consecutive six-month period.

26.3 During each one-hour PM 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.

26.4 The PM source test requirement in Condition 26 is waived for an emission unit if:

- a. a PM source test during the most recent semiannual reporting period on that unit shows compliance with the PM standard since permit issuance, or
- b. if a follow-up visible emission observation conducted using Method-9 during the 90 days shows that the excess visible emissions described in Condition 19.e no longer occur.

27. Particulate Matter Recordkeeping. The Permittee shall keep records of the results of any PM testing and visible emissions observations conducted under Condition 26.

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

28. Particulate Matter Reporting. The Permittee shall report as follows:

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

28.1 In each stationary source operating report required by Condition 114, include

- a. the dates, EU ID(s), and results when an 18-minute opacity observation was greater than the applicable threshold criterion in Condition 19.e.
- b. a summary of the results of any PM testing and visible emissions observations conducted under Condition 26.

28.2 Report as excess emissions, in accordance with Condition 113, any time the results of a source test for PM exceeds the PM emission limit stated in Condition 23.

Sulfur Compound Emission Standards Requirements

29. Sulfur Compound Emissions. The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from (*EU IDs 1, 2a, 3a, 4b, 4c, 5a, 5b, 6, 6a, 6b, 6c, 7a, 7b, 8-12, 23a, 24-28, 28a, 29, 29a, 31-34*) to exceed 500 ppm averaged over three hours.

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

29.1 Limit the sulfur content of the fuel as set out by Conditions 55 through Condition 59.

29.2 Monitor, record and report according to Condition 60.

[18 AAC 50.326(a), 10/1/04]
[40 C.F.R. 71.2 and 71.6(a)(1 & 3), 7/1/03]

Used Oil Authorization

30. Used Oil Authorization.² The Permittee may burn used oil blends in heaters and boilers as follows:

30.1 Comply with the fuel sulfur requirement for the applicable phase, as described in Conditions 55, 56, 57.1, 58.1, and 59.

30.2 Comply with the state PM standard listed in Condition 23 by blending the used oil with fuel oil (or fuel oil/fish oil blend) using a metering system or other reproducible method accurate to plus or minus two percent at a ratio of one gallon of used oil to at least six gallons of fuel oil (or fuel oil/fuel blend). Record the date, the quantity of used oil blended (gallons), and the quantity of fuel oil (or fuel oil/fish oil) blended (gallons).

30.3 Submit the information required under Condition 30.2 for the reporting period, with the operating report described in Condition 114.

[18 AAC 50.326(a), 10/1/04]
[40 C.F.R. 71.2 and 71.6(a)(3), 7/1/03]
[AQ0231MSS01, Condition 24, 10/xx/09]

² CAUTION! Although this condition should ensure compliance with the applicable emission standards of 18 AAC 50, this permit condition does NOT ensure compliance with other applicable state or federal laws concerning management, use, or disposal of used oil.

Fish Oil Authorization

31. Fish Oil Engine Authorization. The Permittee may burn blended fuel oil/fish oil blends in each engine emission unit upon Department approval. Monitor, record, and report as follows.

- 31.1 Comply with fuel sulfur requirement for the applicable phase, as described in Conditions 55, 56, 57.1, 58.1, and 59.
- 31.2 Comply with NO_x PSD avoidance limits in Condition 41 as follows:
- a. Conduct NO_x emission source testing using procedures set out in Section 6 within ten operating days after initial conversion to blended fish oil/fuel oil, and as follows to obtain Department approval, except as set out in Condition 31.3.
 - (i) Test each unit at no less than three loads (high, mid, and low) within the normal operating range of the unit. If the Permittee certifies that units have identical configuration, the Department will allow one unit to be tested within that group.
 - (ii) During each performance test run, monitor and record opacity in accordance with Condition 18.
 - (iii) At each performance test load, perform the test at the desired fish oil/fuel oil blend(s) and at 100 percent diesel fuel.
 - (iv) During each performance test, monitor and record the unit's average load, electric generation rate, and blended fuel consumption rate.
 - (v) Determine the fuel-specific higher heating value (gross heat value) for each fuel or fuel blend used during the testing, by obtaining a vendor certification or by analyzing a representative sample of the fuel or blend in accordance with ASTM D 240, 4809 or 2382.
 - (vi) Determine load-specific NO_x emission factors (pounds per gallon and pound per hour) expressed as NO₂, based on EPA Reference Method 19.
 - (vii) Include the information obtained in Conditions 31.2a(ii) through 31.2a(vi) in the source test report required in Section 6.
 - b. After Department approval, if source test results show different engine-specific and fuel-specific NO_x emission factors for blended fuels than that demonstrated for fuel oil, use the blended fuel oil/fish oil emission factors to calculate the unit's 12 consecutive month total emissions in Condition 41 during any period during which the unit combusts blended fuel oil/fish oil retroactive to date of test.
- 31.3 Obtain Department approval in writing before using fish oil blend in any emission unit equipped with SCR.
- a. Obtain from the vendor a demonstration that the fish oil/fuel oil blend will not cause or contribute to an accelerated decrease of SCR performance.
 - b. Submit to the Department:

- (i) the SCR vendor demonstration that include compatibility of SCR reagent and fish oil;
 - (ii) the estimated emission reduction compared to diesel fuel;
 - (iii) the recommended changes of dosing and concentration of reagent in SCR (remapped to engine if needed); and
 - (iv) the recommended increase in SCR maintenance and inspection intervals.
- c. If the Department approves the use of fish oil blend, comply with the requirements of Conditions 31.1 and 31.2.
- 31.4 Blend the fish oil with fuel oil using a metering system or other reproducible method accurate to plus or minus five percent. Blend at a ratio not to exceed that for which the Permittee has conducted emission source tests under Condition 31.2a to verify site-specific NO_x emission factors.
- a. Record the date, volume of fish oil (gallons), volume of fuel oil (gallons) in the blend, and the blend ratio.
 - b. Report as excess emissions as described in Condition 113 if the blend ratio exceeds the ratio for which Trident has conducted emission source tests under Condition 31.2a.
- 31.5 Include in the operating report described in Condition 114 the information required under Condition 31.4a for the reporting period.

[18 AAC 50.326(a), 10/1/04]
[40 C.F.R. 71.2 and 71.6(a)(3), 7/1/03]
[AQ0231MSS01, Condition 25, 10/xx/09]

Fish Meal Plant Requirements

- 32.** The Permittee shall operate the seawater scrubber at all times when the fish meal plant is operating.
- 32.1 Record and report the hours of operation and fuel consumption for the fish meal dryer (Unit ID 12) as set out in Conditions 42.a, 42.b, and 47.6.
- 32.2 Physically verify and record that the seawater pumps are operating prior to startup of the fishmeal plant dryer (Unit ID 12) and at least once each work shift that the fish meal plant is operated.
- 32.3 Report as set out by Condition 113 and in the Operating Report as set out by Condition 114, occurrences when the fish meal plant operated while the scrubber was down.

[Permit to Operate No. 9325-AA001, 6/26/95]
[18 AAC 50.326(a), 10/1/04]
[40 C.F.R. 71.2 and 71.6(a)(3), 7/1/03]

Non-road Allowances

- 33. Portable Generator Allowances.** The Permittee may replace the portable generators (Emission Unit 25, 31, and 32) with substitute units. The Permittee may also increase the rating of a portable generator listed in Table A by limiting the total number of portable generators used during the selected phase. In all cases, the combined capacity of all portable generators used during the selected phase shall not exceed 1,050 kW.

- 33.1 If the Permittee replaces any of the portable generators (Emission Unit 25, 31 or 31) with substitute units, the Permittee shall, within seven days of installation:
- assign each substitute an ID using the existing ID and adding a letter starting with “a” (i.e. 31 replaced by 31a, replaced by 31b, etc.);
 - notify the Department in accordance with Condition 38 of the substitute unit make and model, unit number, serial number, anticipated initial start-up date, installation date, and removal date of the replaced unit;
 - include with the notification provided in Condition 33.1b which portable generators will not be operated during the selected phase (if applicable), along with the total capacity of the portable generators that will be operated during the selected phase; and
 - provide emission rate information showing that the substitute units’ emission rates in pounds per gallon at 100 percent load are equal to or less than the emission rates listed in Table B for CO, NO_x, and PM-10.

Table B– Portable Generator Emission Rates

Pollutant	Emission Factor (lb/gal)
NO _x	0.4
PM	0.0095
CO	0.115

- 33.2 Subsequent to installation of the substitute unit, track operating hours and fuel use separately from the replaced units.³
- 33.3 Report as an excess emission as described in Condition 113 any time that the total capacity of the substitute portable generators (substitutes for Emission Units 25, 31 and/or 32) exceeds the 1,050 kW limit in Condition 33.

[AQ0231MSS01, Condition 25, 10/xx/09]

- 34. Clarification Regarding Unit Descriptions.** The Permittee shall comply with all applicable provisions of AS 46.14 and 18 AAC 50 when installing a replacement emission unit, including any applicable minor or construction permit requirements.

[AQ0231MSS01, Condition 21, 10/xx/09]

- 35. Maintenance Requirements.** The Permittee shall maintain the emission units authorized by this permit in accordance with manufacturer’s or operator’s maintenance procedures.

[AQ0231MSS01, Condition 22, 10/xx/09]

- 36. Selective Catalytic Reduction (SCR) Installation Authorization.** The Permittee is authorized to install and operate SCR units listed in Table C as needed. The Permittee is authorized to install additional SCR units at their discretion.

[AQ0231MSS01, Condition 23, 10/xx/09]

³ The substitute units are subject to any applicable group limits for the existing units.

Table C – SCR Installation Authorizations^a

Unit ^b	SCR ID	Source Name	Source Description	Install Date
1	A	167249/32	SINOX System 2000	12/02
4b, 4c	B	167580/105	SINOX System 2000	6/03
2, 2a	C	167580/106	SINOX System 2000	6/03
5, 5a	D	167370/17	SINOX System 2000	9/04
3a	E	167370/15	SINOX System 2000	9/04
6a, 6b,6c	F	167370/12	SINOX System 2000	10/04

Table Notes:

^a Except as noted elsewhere in this permit, the information in this table is for identification purposes only.

^b The emission unit in this column reflects the Emissions Unit/SCR ID configuration as of permit issuance. The Permittee is not restricted to the Emissions Unit/SCR ID configurations shown in this table.

Storage Tanks

37. The Permittee is authorized to operate the storage tanks described in Table A, in accordance with the terms and conditions of this permit and the Title I minor permit application.

[AQ0231MSS01, Condition 18, 10/xx/09]

Emission Unit notification Requirements

38. The Permittee shall notify the Department within seven days of installing a new emission unit or modifying an existing emission unit.

38.1 The notification shall identify the:

- a. unit number of the new or modified unit;
- b. unit number of the pre-modified or removed unit (if applicable);
- c. make, model and rating of the new/modified unit;
- d. make, model and rating of pre-modified/removed unit (if applicable)
- e. unit serial number of all applicable units;
- f. installation/modification date;
- g. anticipated initial start-up date of new/modified unit; and
- h. removal date of a replaced unit, if applicable.

38.2 The Permittee shall notify the Department within seven days after initial startup of a new or modified emission unit. The notification shall identify the:

- a. unit number
- b. make, model and rating;
- c. unit serial number; and
- d. initial start-up date.

[AQ0231MSS01, Condition 19, 10/xx/09]

Section 3. Stationary Source-Wide Requirements

Environmental Management System

39. Environmental Management System. The Permittee shall:

- 39.1 Operate Akutan in accordance with the air quality control provisions of the Department-approved Environmental Management System (EMS).
- 39.2 Update the EMS to include management of new and revised air quality control obligations as set out in minor permit No. AQ0231MSS01 within 60 days after the operating permit revision is effective.

40. Unless otherwise noted, the Permittee shall submit all notifications and reports as directed under Condition 108.

[18 AAC 50.326(a), 10/1/04]
[40 C.F.R. 71.2 and 71.6(a)(3), 7/1/03]
[AQ0231MSS01, Condition 2, 10/xx/09]

Owner Requested Limits to Avoid Classification as PSD-Major

41. Limit to Avoid Classification as PSD-Major for NO_x. The Permittee shall limit the stationary source's NO_x emissions to no more than 240 tons in any twelve consecutive months. Trident may use aqueous urea-based Selective Catalytic Reduction (SCR) as described in Condition 48 to actively reduce NO_x emissions in addition to operational restrictions. Monitor, record, and report as follows:

42. Fuel Consumption (Fuel Oil, Fish Oil, and Used Oil) and Operating Hour Monitoring. Install and operate a dedicated continuous monitoring system for recording fuel consumption that is accurate to within five percent on each emission unit authorized to operate for the selected phase.

- a. Monitor and record the monthly and SCR interval fuel consumption (*TC* and *CC*) in gallons for each unit. (SCR interval as defined in Condition 49).
- b. Monitor and record monthly and SCR interval operating hours for each unit (SCR interval as defined in Condition 49).
- c. For any period during which the fuel consumption monitoring system is out-of-bounds or not operational, then for purposes of calculating NO_x emission in Condition 42.3 determine the monthly or SCR interval fuel consumption based on the hours recorded in Condition 42.b, and the design fuel consumption rate in Table G.

42.2 Engine Load Requirements.

- a. Limit Unit 26 to loads no greater than 79 percent by limiting the monthly fuel consumption rate to 62.6 gallons per hour. Calculate and record monthly fuel consumption rate by dividing the total fuel consumed in the month by the total hours of operation for the month.
- b. For all engines not equipped with SCR, calculate and record monthly percent load by dividing the monthly fuel consumption (gallons) by the hours operated in the month, then dividing that number by the design fuel consumption rate in gallons per hour from Table G, and multiplying by 100.

- c. For engines equipped with SCR:
- (i) Calculate and record the SCR interval percent load by dividing the SCR interval fuel consumption (gallons) by the hours operated during the interval, then dividing that number by the design fuel consumption rate in gallons per hour from Table G, and multiplying by 100 (SCR interval as defined in Condition 49).
 - (ii) Calculate and record percent load for the remainder of the month by dividing the monthly uncontrolled fuel consumption (gallons) by the hours operated in the month without SCR, then dividing that number by the design fuel consumption rate in gallons per hour from Table G, and multiplying by 100.

42.3 By the 15th of each month, calculate the previous month's total NOx emissions as follows:

Engines.

- 43. For each engine that did not use SCR for any part of the month,** calculate and record the monthly NOx emissions using Equation 1; as an alternative, for any specific engine, use the PTE for the engine listed in Table G as monthly NOx emissions.

$$\text{Equation 1} \quad NOx = TC \times EF \times \frac{1 \text{ ton}}{2000 \text{ lb}}$$

Where: NOx = NOx emissions (tons per month);
 TC = Fuel consumption (gallons per month) for each unit that **did not** use SCR during the month, measured or calculated in accordance with Condition 42.a; and
 EF = NOx uncontrolled emission factor (lb per gallon) from Table G, based on the monthly average load recorded under Condition 42.2b for each unit, except as indicated in Condition 31.2b for fish oil emission.

- 44. For each engine that did use SCR for any part of the month,** calculate and record emissions using Conditions 45 and 46; as an alternative, for any specific engine, use the PTE for the engine listed in Table G as monthly NOx emissions.
- 45. Calculate the monthly NOx emissions while using SCR, for each interval using Equation 2.**

$$\text{Equation 2} \quad NOx = \left[\sum_{i=1}^n (ineff_i \times CC_i) \times EF_i \right] \times \frac{1 \text{ ton}}{2000 \text{ lb}}$$

Where: NOx = NOx emissions (tons per month);
 n = Number of intervals during the month for which a given engine used SCR;
 CC = Controlled fuel consumption (gallons per each interval i), measured or calculated in accordance with Condition 42.a);
 $ineff$ = The SCR ineffectiveness (percent) for interval i , calculated by taking 100 minus the effectiveness calculated in accordance with Condition 49; and

EF = NOx uncontrolled emission factor (lb per gallon) from Section 12 based on the load recorded under condition 42.2c(i) for interval i, except as indicated in Condition 31.2b for fish oil emission.

46. Calculate the monthly NOx emissions while not using SCR using Equation 3.

Equation 3 $NOx = UC \times EF \times \frac{1 \text{ ton}}{2000 \text{ lb}}$

Where: NOx = NOx emissions (tons per month);
 UC = Uncontrolled fuel consumption (gallons per month) for each engine ($UC = TC - (CC1 + CC2, \text{ etc})$, TC and CC measured or calculated in accordance with Condition 42.a;
 EF = NOx uncontrolled emission factor (lb per gallon) from Section 12 based on the load recorded under Condition 42.2c(ii) for each unit, except as indicated in Condition 31.2b for fish oil combustion.

47. Non-Engines (except Unit ID 30). For each non-engine except Unit ID 30, calculate and record the NOx emissions using Equation 4; as an alternative, for any specific unit, use the PTE for the unit listed in Table G as monthly NOx emissions.

Equation 4 $NOx = TC \times EF \times \frac{1 \text{ ton}}{2000 \text{ lb}}$

Where: NOx = NOx emissions (tons per month);
 TC = Fuel consumption (gallons per month), measured or calculated in accordance with Condition 42.a; and
 EF = NOx uncontrolled emission factor (lb per gallon) from Table G. except as indicated in Condition 31.2b for fish oil combustion. Note that load does not affect the emission factors from non engines.

- a. Incinerator Unit ID 30. Charge no greater than 146 tons of refuse each month (equivalent to 400 lb per hour continuous capacity). Monitor, record, and report as follows:
- (i) Weigh and record weight of each batch of waste charged in Unit ID 30. Calculate and record the total quantity of waste burned each month in tons.
 - (ii) Calculate and record actual NOx emissions from Unit ID 30 using Equation 5; as an alternative, use a PTE of 1.4 tons per month for the incinerator.

Equation 5 $NOx = [(TC \times 0.2) + (TW \times 2.6)] \times \frac{1 \text{ ton}}{2000 \text{ lb}}$

Where: NOx = NOx emissions (tons per month) for Unit ID 30;
 TC = Fuel consumption (gallons per month), measured or calculated in accordance with Condition 42.a;

- 0.2 = Diesel fuel emission factor (lb per gallon);
- TW = monthly waste incinerated (tons); and
- 2.6 = waste combustion emission factor (lb per ton).

- 47.2 By the 15th of each month, add the monthly NO_x emission for all units calculated under Condition 42.3 to obtain the stationary source monthly total. Add the monthly stationary source total to the stationary source total for the previous 11 months to determine the 12 consecutive month total for the stationary source.
- 47.3 If the NO_x emissions calculated under Condition 47.2 exceed 235 tons per 12 consecutive months, conduct a NO_x emission source test on each internal combustion engine authorized to operate under the selected phase, except for Units 25, 27 through 29, 31, and 32 (or the letter-designated variants thereof, as applicable), within 90 days, unless a source test has been conducted within the previous 12 months. Conduct the tests at no less than three loads within the normal operating range of the emission unit using procedures set out in Section 6 and as follows.
- a. For units equipped with SCR, simultaneously conduct the test upstream and downstream of the SCR unit.
 - (i) For each run, conduct a simultaneous instrument accuracy verification test using the Engine Exhaust NO_x Analyzer described in Condition 51 to collect one representative sample. Obtain readings from directly upstream and directly downstream of the SCR according to regular operational procedures in Conditions 51.2, 51.3b, and the Department-approved Quality Assurance/Quality Control (QA/QC) Plan developed under item 30 of the consent decree dated December 5, 2002, as modified.
 - (ii) For each test, determine the load curve, the urea reagent concentration, the urea flow rate, and the ammonia slip.
 - b. During each test, monitor and record the unit's average load, electric generation rate, and fuel consumption rate.
 - c. For each test, analyze a representative fuel sample to determine its higher heating value and specific gravity using ASTM methods incorporated by reference in ASTM 396-62, Specifications for Fuel Oil.
 - d. Determine the load-specific NO_x emission rate (lb per gallon and lb per hour), based on Method 19.
 - e. Include the information obtained in Conditions 47.3a through 47.3d in the source test report required by Section 6.
- 47.4 After Department approval of the source tests conducted under Condition 47.3, use the source test emission factors to calculate the unit's emissions in Condition 42.3. If the emission factor in pounds per gallon for any given load differs from the values listed in Table G, recalculate the 12 consecutive month total emissions, starting six months prior to the source test, and submit an updated operating report for those periods as needed.

- 47.5 Report as excess emissions as described in Condition 113 any time the NOx emissions calculated under Condition 47.2 or 47.4 exceeds 240 tons per 12 consecutive months.
- 47.6 Include in the Operating Report required by Condition 114:
- the monthly total fuel use and operating hours for each unit as set out under Condition 42.a or 42.c;
 - the engine loads (monthly average, SCR interval) recorded under Condition 42.2;
 - the monthly total waste incinerated recorded under Condition 47.a(ii); and
 - the monthly and 12 consecutive month total NOx emissions for the stationary source under Condition 47.2 or 47.4.

[18 AAC 50.326(a), 10/1/04]
[40 C.F.R. 71.2 and 71.6(a)(3), 7/1/03]
[AQ0231MSS01, Condition 26, 10/xx/09]

48. Selective Catalytic Reduction (SCR) Requirements. For each SCR system, install and operate SCR units in accordance with the Department-approved Quality Assurance/Quality Control Plan (QA/QC) Plan developed under item 30 of the consent decree dated December 5, 2002, as modified, and as follows:

- 48.1 Maintain on-site a spare catalyst bed in new condition for each group of compatible SCR units, except if the spare catalyst bed is compatible with all SCR units, the Permittee may maintain on-site only one catalyst bed in new condition for all units.
- 48.2 Maintain on-site necessary vendor-recommended spare parts (spray nozzles, lance, pumps, seals, and solenoids).

49. SCR NOx Removal Effectiveness. Determine SCR effectiveness for each interval⁴ of SCR use as follows.

- Measure total parts per million (PPM) nitrogen oxide (NO) concentration of exhaust stream before and after SCR treatment using a gas analyzer that meets the performance specifications set out in Condition 51.
- Calculate nitrogen dioxide (NO₂) concentration of exhaust stream both before and after the SCR unit as five percent of the total NOx in the exhaust stream as shown in Equation 6.
- Calculate the total NOx of exhaust stream both before and after the SCR unit by summing the measured NO concentration and the calculated NO₂ concentration as shown in Equation 7.
- Calculate the effectiveness using Equation 8, upon initiating a period of SCR controlled operations for a specific engine; and, except as indicated in Condition 49.e, at least every 7 operating days for the duration of continuous SCR emission controls of that engine.

⁴ An SCR interval is any period between the SCR effectiveness tests while the unit is operating with SCR.

Equation 6 $NO_2 = NO \left(\frac{0.05}{0.95} \right)$

Equation 7 $NO_x = NO + NO_2$

Equation 8 $eff = \frac{NO_x(in) - NO_x(out)}{NO_x(in)} \times 100$

Where: *eff* = SCR effectiveness (percent);
 $NO_{x_{in}}$ = NOx concentration (PPM) before SCR; and
 $NO_{x_{out}}$ = NOx concentration (PPM) after SCR.

- e. If the NOx emissions calculated under Condition 47.2 exceed 230 tons per 12 consecutive months, measure SCR effectiveness daily starting on the 15th of the month following the month that resulted in greater than 230 tons of NOx emissions, and continuing until the 12 consecutive month NOx emissions are shown to be below 230 tons per 12 consecutive months.

50. Record the effectiveness for each SCR interval. The effectiveness for each interval is the lowest effectiveness measured for the tests that bound that interval. (For instance, interval 1 is bounded by 80 percent and 85 percent. The effectiveness for interval 1, *eff1*, is 80 percent.

50.1 In case of SCR malfunction, contact the SCR vendor or certified technician and implement their prescribed corrective actions, and record:

- a. a complete description of the corrective action;
- b. the date the corrective action was completed;
- c. the technician's contact information (if the corrective action was prescribed by an SCR manufacturer or certified technician); and
- d. if applicable, a description of how any corrective actions completed differed from what was prescribed by the SCR manufacturer or certified technician, and the basis for the difference.

50.2 Keep records of:

- a. all SCR system repairs, maintenance, and SCR control system adjustments, including time and date;
- b. the dates and times each time that SCR controls are started up and shut down. Start-up means that the catalyst bed temperature is within the manufacturer's recommended temperature set points for optimal NOx removal and reagent injection is at a rate consistent with the programmable logic controller setting for the operating engine's load setting. Shut down means that the engine is no longer running or one of the above parameters is out of bounds;
- c. hourly records of injection rate of SCR reagent in gal/hr and records of the concentration of SCR reagent in lb per gallon for each batch prepared;
- d. receipts for all urea purchases (with dates and quantities);
- e. system alarm logs including time, date of occurrence; and

- f. date and time of every effectiveness test conducted under Condition 49, and results.

50.3 Include in the Operating Report required by Condition 114, all records required under Condition 48, except for the records required under Condition 50.2c. Maintain the records required under Condition 50.2c. Maintain the records required under Condition 50.2c on-site for five years from the date of the record.

[18 AAC 50.326(a), 10/1/04]
[40 C.F.R. 71.2 and 71.6(a)(3), 7/1/03]
[AQ0231MSS01, Condition 27, 10/xx/09]

51. Engine Exhaust NOx Analyzer. The Permittee shall maintain two (primary and secondary) exhaust gas NOx analyzers onsite that are capable of measuring nitric oxide (NO) concentrations of one to 1,000 ppmv and that are accurate to five percent in accordance with the QA/QC Plan developed under item 30 of consent decree dated December 5, 2002, as modified. Comply with the following for analyzers required under this condition:

51.1 Install on the stacks of units capable of operating with SCR:

- a. sampling ports that comport with 40 C.F.R. 60, Appendix B, Performance Specification 2, and a stack or duct free of cyclonic flow at the port location during the applicable test methods and procedures;
- b. safe sampling platforms;
- c. safe access to sampling platforms; and
- d. utilities for emission sampling and testing equipment.

51.2 Develop an analyzer exhaust traverse for each sampling port of no less than three points to ensure representative sampling.

51.3 Relative Accuracy Requirements.

- a. Keep calibration gas available onsite at all times.
- b. Before each SCR effectiveness test required by Condition 49, test the analyzer's relative accuracy using NOx calibration gas as follows:
 - (i) Measure and record the:
 - (A) date;
 - (B) certified NOx concentration of the calibration gas (*NOx certified*); and
 - (C) measured NOx concentration of the calibration gas (*NOx measured*).
 - (ii) Calculate and record the analyzer relative accuracy using Equation 9.

Equation 9
$$RA = \left| \frac{NO_{x\text{certified}} - NO_{x\text{measured}}}{NO_{x\text{certified}}} \right| \times 100$$

Where: RA = Analyzer Relative Accuracy

- c. Recalibrate or repair the analyzer if relative accuracy exceeds five percent, and no less than once each year. The recalibration must be performed by the manufacturer or a trained technician.
- d. Keep records of each relative accuracy test. Notify the Department within seven days of the audit date if any analyzer's relative accuracy calculation conducted under Condition 51.3b results in a relative accuracy greater than five percent.
- e. Include with the operating report described in Condition 114:
 - (i) a copy of the receipt for any recalibration following return of the recalibrated analyzer required under Condition 51.3c; and
 - (ii) a copy of any records and notifications required under Condition 51.3d

51.4 When the primary analyzer requires recalibrations or repairs under Condition 51.3c, use the secondary analyzer for all measurements required under this permit. Follow all requirements listed in Condition 51.3.

[18 AAC 50.326(a), 10/1/04]
[40 C.F.R. 71.2 and 71.6(a)(3), 7/1/03]
[AQ0231MSS01, Condition 28, 10/xx/09]

52. Limit to Avoid Classification as PSD-Major for SO₂. The Permittee shall limit the stationary source's SO₂ emissions to less than 250 tons in any 12 consecutive months. Monitor, record, and report as follows.

- 52.1 By the 15th of each month, calculate the previous month's total SO₂ emissions for each unit authorized to operate during the selected phase(s) for that month as follows.
- a. Except as indicated in Condition 52.1b, calculate and record the monthly SO₂ emissions using Equation 10.

$$\text{Equation 10} \quad SO_2 = TC \times EF \times \frac{1 \text{ ton}}{2000 \text{ lb}}$$

Where: SO_2 = SO₂ emissions (tons per month);

TC = Fuel consumption (gallons per month) for each unit measured or calculated in accordance with Condition 42.a; and

EF = SO₂ emission factor (lb per gallon) using an appropriate emission factor based on fuel sulfur content, as required under Conditions 55, 56, 57.1, 58.1, 59 (as applicable for the selected phase).

- b. For any specific unit, the Permittee may use the PTE for the unit listed in Table H as monthly SO₂ emissions.
- 52.2 Add the monthly SO₂ emission for all units calculated under Condition 52.1 to obtain the stationary source monthly total. Add the monthly stationary source total to the stationary source total for the previous 11 months to determine the 12 consecutive month total for the stationary source.
- 52.3 Report as excess emissions as described in Condition 113 if the SO₂ emissions calculated under Condition 52.2 exceed 250 tpy.

- 52.4 Include in the operating report described in Condition 114 monthly and 12-consecutive month total SO₂ emissions for the stationary source under Condition 52.2

[18 AAC 50.326(a), 10/1/04]
[40 C.F.R. 71.2 and 71.6(a)(3), 7/1/03]
[AQ0231MSS01, Condition 29, 12/xx/08]

Ambient Air Quality Requirements

General Provisions – All Phases

- 53.** In order to protect the ambient air quality standards and increments for nitrogen dioxide (NO₂), sulfur dioxide (SO₂), and particulate matter (PM-10), the Permittee shall:
- 53.1 Maintain the ambient air boundary as submitted in the Title I application using the provisions of the July 29, 2003 Public Access Control Plan.
- a. The ambient air boundary shall be completely within the Lease Boundary established with each surface owner of lands and waters.
 - b. The Permittee may not contract the ambient air boundary outside of a permit application process. The permit application must include a revised ambient air quality analysis demonstrating compliance with the air quality standards and increments for nitrogen dioxide, sulfur dioxide, and particulate matter.
 - c. The Permittee may not revise the Public Access Control Plan without first obtaining written Department approval. To obtain Department approval, the Permittee shall submit their proposed revisions to the Department's compliance assurance group, and provide a courtesy copy to the Department construction permit group.
 - d. The Permittee must immediately cease operating if the holder of the road easement across the lease area demands or exercises access to that easement. Once this occurs, the Permittee may not restart operations prior to obtaining a new air quality control permit. The application for a new permit must describe the revised ambient air boundary, and include an air quality demonstration for that revised boundary per Condition 53.1b.
- 53.2 Within 60-days of permit issuance, increase the stack height for Unit 27 to 9.1 meters above grade. Submit a stack height compliance demonstration consisting of as-built drawings and a photograph, with the next operating report required under Condition 114.
- 53.3 Construct and maintain:
- a. Exhaust stacks that meet the minimum stack height requirements listed in Table D. Except as noted in Condition 53.2, compliance with the minimum stack height is required prior to initial startup of the associated emission unit. Submit the initial compliance demonstration described in Condition 53.4 for all stack changes.
 - b. Vertical, uncapped exhaust stacks for all emission units listed in the permit. 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.

53.4 In addition to the stack demonstrations specifically listed in this permit, demonstrate compliance with the stack requirements in Condition 53.3 upon Department request. Demonstrations shall include as-built drawings and photographs.

[AQ0231MSS01, Condition 30, 10/xx/09]

Table D –Minimum Stack Height Requirements^a

Unit			Minimum Stack Height Above Grade (m)
Permit ID	Name	Description	
1	Pollock Generator #4	Cat D3516B	20.6
2a	Cod Generator #1	Cat D3512B	21.5
3a	Cod Generator #2	Cat D3512B	21.5
4b	Pollock Generator #1	Cat D3516B	20.6
4c	Pollock Generator #1	Cat C175-16	20.6
5a	Pollock Generator #2	Cat D3512B	20.6
5b	Pollock Generator #2	Cat D3516B	20.6
6a	Pollock Generator #3	Cat D3512B – 1,240 ekW	20.6
6b	Pollock Generator #3	Cat D3512B – 1,360 ekW	20.6
6c	Pollock Generator #3	Cat C175-16	20.6
7b	Cod Generator #3	Cat D3512B	21.5
8	Pollock Boiler #1	CB NCB 100-400	27.5
9	Pollock Boiler #2	CB NCB 100-400	27.5
10	Cod Boiler #1	Johnston 516 AC	21.5
11	Cod Boiler #2	Johnston 516 AC	21.5
12	Fish Meal Dryer	Pedar Halvorsen Furnace	27.5
23a	Boiler	CB 200-500-150	19.0
24	Boiler	Falcon Boiler	11.2
25	Sealand Engine	Detroit Series 60	7.6
26	Compressor Engine	Cat 3508B	20.6
27	Freshwater Pump House Gen	Cat D3512A	9.1
28a	Cod Generator #4	Cat D3512B	21.5
29a	Cod Generator #5	Cat D3516B	21.5
30	Trash Incinerator	Therm Tec G-50	8.3
31	Portable Generator	Detroit Diesel 60	7.6
32	Portable Generator	Detroit Diesel 60	7.6
33	Cod Generator #6	Cat D3516B	21.5
34	Cod Generator #7	Cat D3516B	21.5

^a Table D lists emission units that may exist during any of the 5 phases. A required stack height is only applicable when the associated emission unit is present (i.e., the stack height requirement is not applicable prior to installation, or upon removal, of the associated emission unit).

54. In order to protect the NO₂ air quality standard and increment, comply with the NO_x PSD-avoidance limit in Condition 41.

[AQ0231MSS01, Condition 31, 10/xx/09]

Additional Ambient Air Provisions During Phase 0

55. During Phase 0, the Permittee shall limit the fuel sulfur content to no greater than 0.29 percent, by weight.

[AQ0231MSS01, Condition 32, 10/xx/09]

Additional Ambient Air Provisions During Phase 1

56. During Phase 1, the Permittee shall limit the fuel sulfur content to no greater than 0.27 percent, by weight.

[AQ0231MSS01, Condition 33, 10/xx/09]

Additional Ambient Air Provisions During Phase 2

57. During Phase 2, the Permittee shall:

- 57.1 Limit the fuel sulfur content to no greater than 0.26 percent, by weight;
- 57.2 Not concurrently operate Emission Unit 11 and Emission Unit 27;
 - a. Record the date and time of startup/shutdown for Emission Unit 11;
 - b. Record the date and time of startup/shutdown for Emission Unit 27; and
 - c. Report as an excess emission as described in Condition 42 any time that Emission Unit 11 and Emission Unit 27 are concurrently operating.

[AQ0231MSS01, Condition 34, 10/xx/09]

Additional Ambient Air Provisions During Phase 3

58. During Phase 3, the Permittee:

- 58.1 Shall limit the fuel sulfur content to no greater than 0.22 percent, by weight;
- 58.2 *May* concurrently operate Emission Unit 11 and Emission Unit 27.

[AQ0231MSS01, Condition 35, 10/xx/09]

Additional Ambient Air Provisions During Phase 4

59. During Phase 4, the Permittee shall limit the fuel sulfur content to no greater than 0.20 percent, by weight.

[AQ0231MSS01, Condition 36, 10/xx/09]

Fuel Monitoring Provisions

60. The Permittee shall monitor fuel sulfur as follows:

- 60.1 Obtain a statement or receipt from the fuel supplier certifying the maximum sulfur content of the fuel for each shipment of fuel delivered to the Plant. If a certified statement or receipt is not available from the supplier, analyze a representative sample of any fuel added to any tank at the plant in accordance with Condition 60.2.
- 60.2 If required under this permit to determine the sulfur content of fuel oil, used oil, or fish oil, use ASTM method D129-00, D1266-98, D1552-95, D2622-98, D4294-98, D4045-99, D-4294.
- 60.3 Except as indicated in Condition 60.3a, calculate and record the sulfur content, by weight, of the fuel in each tank (Tanks 1 through 6), after each time fuel is added to a tank, using Equation 11.

Equation 11
$$S_T = \frac{(Q_{F1} \times S_{F1}) + (Q_{F2} \times S_{F2}) + (Q_{F3} \times S_{F3})}{100}$$

- Where:
- Q_{F1} = Quantity of Fuel 1 (delivered fuel), percent of total fuel, by weight
 - S_{F1} = Sulfur content of Fuel 1, percent sulfur by weight
 - Q_{F2} = Quantity of Fuel 2 (fuel in tank before delivery), percent of total fuel, by weight
 - S_{F2} = Sulfur content of Fuel 2, percent sulfur by weight

QF3 = Quantity of Fuel 3 (lower sulfur fuel as needed to meet applicable sulfur limit), percent of total fuel, by weight

SF3 = Sulfur content of Fuel 3, percent sulfur by weight

ST = Sulfur content of blended fuel in the tank, percent sulfur by weight

- a. If the sulfur content of any diesel fuel delivery is less than the applicable limit specified in Condition 55, 56, 57.1, 58.1, or 59 (as applicable for the selected phase), then Trident may elect to assume the fuel in all tanks to which that fuel is added is the same as the maximum of any fuel added to that tank in the previous 12 months, and may forego fuel sulfur calculations in Condition 60.3.
- b. Keep records of statements or receipts from the fuel supplier showing sulfur content and quantity of each shipment of fuel under Condition 60.1, results of each sulfur measurement required under Condition 60.2, and each fuel sulfur calculation for each tank conducted under Condition 60.3.

[AQ0231MSS01, Condition 37, 10/xx/09]

61. Monitor the fuel consumption rate for Emission Unit 30 (incinerator) as follows:

- 61.1 Record the calendar day fuel consumption measured by the fuel meter required in Condition 42, and the daily hour of operation on the incinerator.
- 61.2 Calculate and record the daily average fuel consumption rate in gph.

[AQ0231MSS01, Condition 38, 10/xx/09]

62. Report as excess emissions as described in Condition 113

- 62.1 any time the fuel sulfur content calculated under Condition 60 of any fuel consumed at the Plant exceeds an applicable limit listed in Conditions 55, 56, 57.1, 58.1, and 59 (as applicable for the selected phase); and
- 62.2 any time the calendar day average fuel consumption rate for Unit 30 calculated under Condition 61.2 exceeds 19.0 gph.

[AQ0231MSS01, Condition 39, 10/xx/09]

63. Include in the operating report described in Condition 114

- 63.1 the records required under Condition 57.2.
- 63.2 the records required under Condition 60;
- 63.3 a summary of the records required under Condition 61.2; and
- 63.4 a list of the notifications submitted during the reporting period.

[AQ0231MSS01, Condition 40, 10/xx/09]

Insignificant Emission Units

64. For emission units at the stationary source that are insignificant as defined in 18 AAC 50.326(d)-(i) that are not listed in this permit, the following apply:

- 64.1 The Permittee shall submit the compliance certifications of Condition 116 based on reasonable inquiry;
- 64.2 The Permittee shall comply with the requirements of Conditions **Error! Reference source not found.**, 18, 23, and 23.4.

64.3 The Permittee shall report in the Operating Report required by Condition 114 if an emission unit is insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) and actual emissions become greater than any of those thresholds;

64.4 No other monitoring, recordkeeping or reporting is required.

- 65.** 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), 7/25/08]

65.1 For Unit IDs 10, 11, 25, 27, 28, and 29, as long as actual emissions do not exceed 5 TPY CO, 2 TPY NO_x, SO₂, and VOC, and 0.75 TPY PM-10, monitor, record, and report according to Condition 64. If actual emissions exceed any of these thresholds, monitor, record, and report according to Conditions 18, 21, and 22.

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

- 66.** The Permittee shall not cause or allow particulate matter emitted from an industrial process or fuel-burning equipment to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

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

66.1 For Unit IDs 25, 27, 28, and 29 as long as actual emissions do not exceed 5 TPY CO, 2 TPY NO_x, SO₂, and VOC, and 0.75 TPY PM-10 monitor, record, and report according to Condition 64. If actual emissions exceed any of these thresholds, monitor, record, and report according to Conditions 25 and 26.

Section 4. Federal Requirements

- 67. Standards of Performance for Commercial and Industrial Solid Waste Incinerators.**
 For Unit ID 30, keep records on a calendar quarter basis of the weight of municipal solid waste burned (or other EPA approved method) to demonstrate municipal wastes are greater than 30 percent of the total waste burned and the weight of all other fuels and wastes burned in the unit (total mass must be less than 35 tons per day) to be exempt from this subpart.

[18 AAC 50.326(a), 10/1/04]
 [40 C.F.R. 71.2 and 71.6(a)(3), 7/1/03]
 [40 C.F.R. 60 Subpart CCCC, 7/1/03]

National Emission Standards for Hazardous Air Pollutants

- 68. National Emission Standard for Mercury.** Do not exceed 3.2 kilograms of mercury emissions per 24-hour period from Unit ID 30.

[18 AAC 50.326(a), 10/1/04]
 [40 C.F.R. 71.2 and 71.6(a)(3), 7/1/03]
 [40 C.F.R. 61 Subpart E, 7/1/03]

Subpart IIII Emission Limits

For Emissions Units 4c, 6c, 28a, 29a, 33, and 34.(CI ICE engines that commence construction, modification, or reconstructed after July 11, 2005 or were manufactured after April 1, 2006).

- 69.** Any New Internal Compression Engine (CI ICE) shall be certified by the manufacturer (initial demonstration) at or below the applicable emission standards found in Table E and shall continue to meet them for the useful life of the engine.
- 70.** Any modified or reconstructed CI ICE shall be certified by the entity that conducts the modification or reconstruction (via the appropriate testing according to 40 CFR 60.4212). This certification shall state that emissions will be at or below the applicable emission standards found in Table E and the unit shall continue to meet them for the useful life of the engine.
- 71.** The Permittee shall operate and maintain Emissions Units 4c, 6c, 28a, 29a, 33, and 34 according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer, over the entire life of the engine. The Permittee may only change those settings that are permitted by the manufacturer.

[18 AAC 50.040(j), 12/3/05; 18 AAC 50.326(j), 12/1/04]
 [40 C.F.R. 60, Subpart IIII, 7/1/07]

Table E – Emission Standards for pre-2007 engines.

Maximum engine power	Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder and 2007–2010 model year engines >2,237 KW (3,000 HP) and with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)			
	HC	NOX	CO	PM
KW>560 (HP>750)	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

Fuel Requirements

- 72.** Use diesel fuel that meets the following requirements on a per-gallon basis:
- 72.1 Sulfur content of 500 parts per million (ppm) maximum

72.2 A minimum Cetane index or aromatic content of 40; or

72.3 A maximum aromatic content of 35 volume percent

[40 CFR 60.4207(a) & 80.510(a), 7/1/07]

73. Beginning October 1, 2010, use diesel fuel that meets the following requirements on a per-gallon basis:

73.1 Sulfur content of 15 parts per million (ppm) maximum;

73.2 A minimum Cetane index or aromatic content of 40; or

73.3 A maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(b) & 80.510(b), 7/1/07]

74. The Permittee may petition the Administrator for approval to use any fuels mixed with used lubricating oil that do not meet the fuel requirements of Conditions 72 and 73. Permittee must demonstrate in their petition to the Administrator that there is no other place to use the lubricating oil. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

[40 CFR 60.4207(b), 7/1/07]

75. The Permittee shall not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines in 40 CFR 60, Subpart III, as applicable.

[40 CFR 60.4208(a), 7/1/07]

76. After December 31, 2009, the Permittee shall not install stationary CI ICE with a maximum engine power of less than 25 HP (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines in 40 CFR 60, Subpart III, as applicable.

[40 CFR 60.4208(b), 7/1/07]

77. After December 31, 2014, the Permittee shall not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 25 HP and less than 75 HP that do not meet the applicable requirements for 2013 model year non-emergency engines in 40 CFR 60, Subpart III, as applicable.

[40 CFR 60.4208(c), 7/1/07]

78. After December 31, 2013, the Permittee shall not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 75 HP and less than 175 HP that do not meet the applicable requirements for 2012 model year non-emergency engines in 40 CFR 60, Subpart III, as applicable.

[40 CFR 60.4208(d), 7/1/07]

79. After December 31, 2012, the Permittee shall not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 175 HP, including those above 750 HP, that do not meet the applicable requirements for 2011 model year non-emergency engines in 40 CFR 60, Subpart III, as applicable.

[40 CFR 60.4208(e), 7/1/07]

80. After December 31, 2016, the Permittee shall not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 750 HP that do not meet the applicable requirements for 2015 model year non-emergency engines in 40 CFR 60, Subpart III, as applicable.

[40 CFR 60.4208(f), 7/1/07]

- 81.** The requirements of 75 through 80 do not apply to stationary CI ICE that have been modified or reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location. This provision does not extend to imported units which shall be treated as new sources.

[40 CFR 60.4208(g) & (h), 7/1/07]

Record Keeping

- 82.** The Permittee shall maintain records of manufacturer certifications that identify the applicable emission limits for the appropriate model year and maximum engine power and certify the applicable units to those standards
- 83.** The Permittee shall maintain records that verify compliance with the diesel fuel requirements of Conditions 72 and 73.

Reporting

- 84.** Report compliance with fuel sulfur standards of Conditions 72 and 73 as set out in Condition 114.

Section 5. General Conditions

Standard Terms and Conditions

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

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

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

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

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

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

88. Administration Fees. The Permittee shall pay to the Department all assessed permit administration fees. Administration fee rates are set out in 18 AAC 50.400-405.

[18 AAC 50.326(j)(1), 12/1/04; 18 AAC 50.400, 7/25/2008; 18 AAC 50.403, 12/3/05 and 18 AAC 50.405, 1/29/05]
[AS 37.10.052(b), 11/04 and AS 46.14.240, 6/7/03]

89. 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 greater than 10 tons per year. The quantity for which fees will be assessed is the lesser of:

89.1 the stationary source's assessable potential to emit of 633.3 TPY; or

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

- a. an enforceable test method described in 18 AAC 50.220;
- b. material balance calculations;
- c. emission factors from EPA's publication AP-42, Vol. I, adopted by reference in 18 AAC 50.035; or
- d. other methods and calculations approved by the Department.

[18 AAC 50.040(j)(3) 7/25/08; 18 AAC 50.326(j)(1), 12/1/04; 18 AAC 50.035 and 18 AAC 50.346(b)(1), 11/9/08;
18 AAC 50.410, 6/18/09; and 18 AAC 50.420, 01/29/05]
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]]

90. Assessable Emissions Estimates. Emission fees will be assessed as follows:

90.1 no later than March 31 of each year, the Permittee may submit an estimate of the stationary source's assessable emissions to ADEC, Air Permits Program, ATTN: Assessable Emissions Estimate, 410 Willoughby Ave., Juneau, AK 99801-1795; the submittal must include all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates; or

90.2 if no estimate is received 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 89.1.

[18 AAC 50.040(j)(3), 7/25/08; 18 AAC 50.326(j)(1), 12/1/04; 18 AAC 50.346(b)(1), 11/9/08,
18 AAC 50.410, 12/14/06; and 18 AAC 50.420, 01/29/05]
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]

91. Good Air Pollution Control Practice. The Permittee shall do the following for all emission units:

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

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

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

[18 AAC 50.030, 7/25/08; 18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.346(b)(5), 10/1/04]

92. Dilution. The Permittee shall not dilute emissions with air to comply with this permit. Monitoring shall consist of an annual certification that the Permittee does not dilute emissions to comply with this permit.

[18 AAC 50.045(a) 10/1/04]

93. 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.

93.1 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 93.1a or to address the results of Department inspections that found potential problems; and

(ii) to prevent future dust problems.

93.2 The Permittee shall report according to Condition 95.

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

94. 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), 7/25/08]

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

18 AAC 50.110, 5/26/72; 18 AAC 50.040(e), 7/25/08; 18 AAC 50.326(j)(3), 12/1/04
and 18 AAC 50.346(a), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

95.1 Monitoring, Record Keeping, and Reporting for Air Pollution Prohibited

- a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 113.
- 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 95.

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

- a. after an investigation because of a complaint or other reason, the Permittee believes that emissions from the stationary source have caused or are causing a violation of Condition 95; or
- b. the Department notifies the Permittee that it has found a violation of Condition 95.

95.3 The Permittee shall keep records of:

- a. the date, time, and nature of all emissions complaints received;
- b. the name of the person or persons that complained, if known;
- c. a summary of any investigation, including reasons the Permittee does or does not believe the emissions have caused a violation of Condition 95; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

95.4 With each stationary source Operating Report under Condition 114, the Permittee shall include a brief summary report which must include:

- a. the number of complaints received;
- b. the number of times the Permittee or the Department found corrective action necessary;
- c. the number of times action was taken on a complaint within 24 hours; and
- d. the status of corrective actions the Permittee or Department found necessary that were not taken within 24 hours.

95.5 The Permittee shall notify the Department of a complaint that is attributable to emissions from the stationary source within 24 hours after receiving the complaint, unless the Permittee has initiated corrective action within 24 hours of receiving the complaint.

96. Technology-Based Emission Standard. If an unavoidable emergency, malfunction, or non-routine repair, as defined in 18 AAC 50.235, causes emissions in excess of a

technology-based emission standard⁵, the Permittee shall take all reasonable steps to minimize levels of emissions that exceed the standard. Excess emissions reporting under Condition 113 requires information on the steps taken to minimize emissions. Monitoring of compliance for this condition consists of the report required under Condition 113.

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

- 97. Asbestos NESHAP.** The Permittee shall comply with the requirements set forth in 40 C.F.R. §61.145, §61.150, and §61.152, and the applicable sections set forth in 40 C.F.R. §61, Subpart A and Appendix A.

[18 AAC 50.040(b)(2)(F), 10/1/04]
[40 C.F.R. 61, Subparts A & M, and Appendix A, 7/1/03]

- 98. Refrigerant Recycling and Disposal.** The Permittee shall comply with the standards for recycling and emission reduction of refrigerants set forth in 40 C.F.R. §82, Subpart F.

[18 AAC 50.040(d), 10/1/04]
[40 C.F.R. 82, Subpart F, 7/1/03]

Open Burning Requirements

- 99. Open Burning.** If the Permittee conducts open burning at this stationary source then they shall comply with the requirements of 18 AAC 50.065.

99.1 The Permittee shall 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.

99.2 Compliance with this condition shall be an annual certification conducted under Condition 116.

[18 AAC 50.065, 1/18/97; 18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3), 7/2/07]

⁵ *Technology-based emission standard* means a best available control technology standard (BACT); a lowest achievable emission rate standard (LAER); a maximum achievable control technology standard established under 40 C.F.R. 63, Subpart B, adopted by reference in 18 AAC 50.040(c); a standard adopted by reference in 18 AAC 50.040(a) or (c); and any other similar standard for which the stringency of the standard is based on determinations of what is technologically feasible, considering relevant factors.

Section 6. General Source Testing and Monitoring Requirements

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

[18 AAC 50.220(a), 1/18/97 & 18 AAC 50.345(a) & (k), 5/03/02]

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

101.1 At a point or points that characterize the actual discharge to into the ambient air; and

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

[18 AAC 50.220(b), 1/18/97]

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

102.1 Source testing for compliance with requirements adopted by reference in 18 AAC 50.040(a) must be conducted in accordance with the methods and procedures specified in 40 C.F.R. §60.

[18 AAC 50.220(c)(1)(A), 10/1/04 and 18 AAC 50.040(a), 7/25/08]
[40 C.F.R. 60, 7/1/07]

102.2 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 C.F.R. §61.

[18 AAC 50.040(b), 7/25/08 and 18 AAC 50.220(c)(1)(B), 10/1/04]
[40 C.F.R. 61, 5/16/07]

102.3 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 C.F.R. §63.

[18 AAC 50.040(c), 7/25/08, and 18 AAC 50.220(c)(1)(C), 10/1/04]
[40 C.F.R. 63, 7/16/07]

102.4 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 and may use the forms in Section 11 to record data.

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

102.5 Source testing for emissions of particulate matter, sulfur compounds, nitrogen compounds, carbon monoxide, lead, volatile organic compounds, fluorides, sulfuric acid mist, municipal waste combustor organics, metals, and acid gases must be conducted in accordance with the methods and procedures specified in 40 C.F.R. §60, Appendix A.

[18 AAC 50.040(a)(3), 7/25/08, and 18 AAC 50.220(c)(1)(E), 10/1/04]
[40 C.F.R. 60, Appendix A, 7/1/07]

102.6 Source testing for emissions of PM-10 must be conducted in accordance with the procedures specified in 40 C.F.R. §51, Appendix M.

[18 AAC 50.035(b)(2), 11/9/08; and 50.220(c)(1)(F), 10/1/04]
[40 C.F.R. 51, Appendix M, 7/1/07]

102.7 Source testing for emissions of any pollutant may be determined using an alternative method approved by the Department in accordance with Method 301 in Appendix A to 40 C.F.R. §63.

[18 AAC 50.040(c)(24), 7/25/08 and 50.220(c)(2), 10/1/04]
[40 C.F.R. 63, Appendix A, Method 301, 7/16/07]

103. Excess Air Requirements. To determine compliance with this permit, standard exhaust gas volumes must only include the volume of gases formed from the theoretical combustion of fuel, plus the excess air volume normal for the specific emission 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), 10/1/04 and 50.990(102), 7/25/08]

104. Test Exemption. The Permittee is not required to comply with Conditions 106, 107, or 108 when the exhaust is observed for visible emissions by Method 9 Plan or Smoke/No Smoke Plan.

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

105. Test Deadline Extension. The Permittee may request an extension to a source test deadline established by the Department. The Permittee may delay a source test beyond the original deadline only if the extension is approved in writing by the Department's appropriate division director or designee.

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

106. Test Plans. 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 emission unit will operate during the test and how the Permittee will document this operation. A complete plan must be submitted within 60 days of receiving a request and at least 30 days before the scheduled date of any tests.

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

107. Test Notification. Except as provided in Condition 104, at least 10 days before conducting a source test, the Permittee shall give the Department written notice of the date and the time the source test will begin.

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

108. Test Reports. Except as provided in Condition 104, within 60 days after completing a source test, the Permittee shall submit two copies of the results in the format set out in the *Source Test Report Outline*, adopted by reference in 18 AAC 50.030. The Permittee shall additionally certify the results in the manner set out in Condition 110 of this permit. If requested in writing by the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.

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

Section 7. General Recordkeeping, Reporting Requirements

Recordkeeping Requirements

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

109.1 Copies of all reports and certifications submitted pursuant to this section of this permit.

109.2 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.

[18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 60.7(f), Subpart A, 7/1/07 and 71.6(a)(3)(ii)(B), 7/2/07]

Reporting Requirements

110. 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.

110.1 The Department may accept an electronic signature on an electronic application or other electronic record required by the Department if:

- a. a certifying authority registered under AS 09.25.510 verifies that the electronic signature is authentic; and
- b. the person providing the electronic signature has made an agreement, with the certifying authority described in Condition 110.1, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature.

[18 AAC 50.345(a) & (j), 11/9/08; 18 AAC 50.205, 10/1/04; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

111. Submittals. Unless otherwise directed by the Department or this permit, the Permittee shall send an original and one copy of reports, compliance certifications, and other submittals required by this permit to ADEC, Air Permits Program, 610 University Ave., Fairbanks, AK 99709-3643, ATTN: Compliance Technician. The Permittee may, upon consultation with the Compliance Technician regarding software compatibility, provide

electronic copies of data reports, emission source test reports, or other records under a cover letter certified in accordance with Condition 110.

[18 AAC 50.326(a), 10/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

112. 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 this permit. The Department may require the Permittee to furnish copies of those records directly to the federal administrator.

[18 AAC 50.345(a) & (i), 11/9/08; 18 AAC 50.200, 10/1/04; and 18 AAC 50.326(a) & (j), 12/1/04]
[40 C.F.R. 71.5(a)(2) & 71.6(a)(3), 7/2/07]

113. Excess Emission and Permit Deviation Reports.

113.1 Except as provided in Condition 95, the Permittee shall report all emissions or operations that exceed or deviate from the requirements of this permit as follows:

- a. in accordance with 18 AAC 50.240(c), as soon as possible after the event commenced or is discovered, report
 - (i) emissions that present a potential threat to human health or safety; and
 - (ii) excess emissions that the Permittee believes to be unavoidable;
- b. in accordance with 18 AAC 50.235(a), within two working days after the event commenced or was discovered, report an unavoidable emergency, malfunction, or non-routine repair that causes emissions in excess of a technology based emission standard;
- c. report all other excess emissions and permit deviations
 - (i) within 30 days of the end of the month in which the emissions or deviation occurs, except as provided in Condition 113.1c(ii) or 113.1c(iii);
 - (ii) if a continuous or recurring excess emissions is not corrected within 48 hours of discovery, within 72 hours of discovery unless the Department provides written permission to report under Condition 113.1c(i); and
 - (iii) for failure to monitor, as required by other applicable conditions in this permit.

113.2 When reporting excess emissions or permit deviations, the Permittee must report using either the Department's on-line form, which can be found at <http://www.dec.state.ak.us/air/ap/site.htm> or <https://myalaska.state.ak.us/deca/air/airtoolsweb/>, or if the Permittee prefers, the form contained in Section 12 of this permit. The Permittee must provide all information called for by the form that is used.

113.3 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), 10/1/04]

114. Operating Reports. During the life of this permit⁶, the Permittee shall submit to the Department an original and one copies of an operating report by August 1 for the period January 1 to June 30 of the current year and by February 1 for the period July 1 to December 31 of the previous year.

114.1 The operating report must include all information required to be in operating reports by other conditions of this permit. The Permittee may, upon consultation with the Compliance Technician regarding software compatibility, provide electronic copies of data reports, emission source test reports, or other records under a cover letter certified in accordance with Departmental submission requirements.

114.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under Condition 114.1, either

- a. the Permittee shall identify
 - (i) the date of the deviation;
 - (ii) the equipment involved;
 - (iii) the permit condition affected;
 - (iv) a description of the excess emissions or permit deviation; and
 - (v) any corrective action or preventive measures taken and the date or dates of such actions; or
- b. when excess emissions or permit deviations have already been reported under Condition 113, the Permittee may cite the date or dates of those reports.

114.3 The operating report must include a listing of emissions monitored under Condition(s) 19.e and 19.2c which trigger additional testing or monitoring, and whether or not the emissions monitored exceed an emission standard. The Permittee shall include in the report:

- a. the date of the emissions;
- b. the equipment involved;
- c. the permit condition affected; and
- d. the monitoring result which triggered the additional monitoring.

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

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

116. Annual Compliance Certification. Each year by March 31, the Permittee shall compile and submit to the Department one original⁷ and one copy of an annual compliance

⁶ "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.

⁷ See 116.2 for clarification

certification report. The Permittee, at their discretion, may submit one copy in electronic format (PDF or other Department compatible image format).

116.1 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 2 through Section 7, 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.

116.2 **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

116.3 In addition, submit a copy of the report directly to the EPA-Region 10, Office of Air Quality, M/S OAQ-107, 1200 Sixth Avenue, Seattle, WA 98101.

[18 AAC 50.205, 10/1/04; 18 AAC 50.345(a) & (j), 11/9/08; and 50.326(j), 12/1/04]
[40 C.F.R. 71.6(c)(5), 7/2/07]

117. NSPS and NESHAP Reports. The Permittee shall:

117.1 attach to the facility operating report required by Condition 114, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10; and

117.2 upon request by the Department, notify and provide a written copy of any EPA-granted waiver of the federal emission standards, record keeping, monitoring, performance testing, or reporting requirements, or approved custom monitoring schedules.

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

Section 8. Permit Changes and Renewal

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

118.1 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;

118.2 The information shall be submitted to the same address as in Condition 116.3.

118.3 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

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

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

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

[18 AAC 50.040(j)(4), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(8), 7/2/07]

120. 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 C.F.R. 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:

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

120.2 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;

120.3 The change shall not qualify for the shield under 40 C.F.R. 71.6(f);

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

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

121. Operational Flexibility. The Permittee may make changes within the permitted stationary source without requiring a permit revision if the changes are not modifications under any provision of Title I of the Act and the changes do not exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions):

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

121.2 For each such change, the written notification required above shall include a brief description of the change within the permitted stationary source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

121.3 The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 121.

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

122. Permit Renewal. To renew this permit, the Permittee shall submit an application under 18 AAC 50.326 no sooner than January 9, 2010 and no later than January 9, 2011. **The renewal application shall be complete before the permit expiration date listed on the cover page of this permit.** Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 40 C.F.R. 71.7(b) and 71.5(a)(1)(iii).

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

123. Permit Applications. The Permittee shall send original applications for modification, or renewal of this permit and application addenda to the Department's Anchorage office⁸. In addition, the Permittee may provide electronic copies of application documents; portable document format (PDF) or MS Word are acceptable formats.

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

124. The Permittee shall submit to the US Environmental Protection Agency (EPA) to the same address as in Condition 116.3:

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

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

[18 AAC 50.040(j)(7), 7/25/08; and 18 AAC 50.326(b), 12/1/04]
[40 CFR 70.10(d)(1)), 7/2/07]

⁸ The current address for the Anchorage office is: ADEC, 619 East Ship Creek, Suite 249, Anchorage, AK 99501

Section 9. Compliance Requirements

General Compliance Requirements

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

125.1 included and specifically identified in the permit; or

125.2 determined in writing in the permit to be inapplicable.

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

126. 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:

126.1 an enforcement action;

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

126.3 denial of an operating-permit renewal application.

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

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

[18 AAC 50.326(j)(3), 10/1/04; and 18 AAC 50.345(a) & (d), 11/9/08]

128. 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:

128.1 enter upon the premises where a emission unit subject to the permit is located or where records required by the permit are kept;

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

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

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

[18 AAC 50.326(j)(3), 10/1/04 & 50.345(a) & (h), 11/9/08]

Compliance Schedule

129. For applicable requirements with which the Akutan Seafood Processing Facility is in compliance, the Permittee will continue to comply with such requirements.

[18 AAC 50.040(j), 7/25/08 & 18 AAC 50.326(j), 12/1/04]
[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(A), 7/2/07]

130. 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), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(B), 7/2/07]

Section 10. Permit As Shield from Inapplicable Requirements

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

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

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

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

[18 AAC 50.326(j), 12/1/04]
 [40 C.F.R. 71.6(f)(3)(i) and (ii), 7/2/07]

132. Table F identifies the emission units that are not subject to the specified requirements at the time of permit issuance. If any of the requirements listed in Table F become 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.

Table F- Permit Shields Granted

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
All	18 AAC 50.306 for PSD major stationary sources	Emissions of pollutants are less than the PSD applicability thresholds of 40 C.F.R. 52.21
All	18 AAC 50.316 for major sources of HAPs	HAP emissions are less than the major source thresholds (10/25 TPY)
30	40 C.F.R. 60, Subpart Cb - Emissions guidelines and compliance times for large municipal waste combustors that are constructed on or before September 20, 1994	The maximum charging rate for this incinerator is less than 250 tons per day, and the incinerator was constructed after September 20, 1994
30	40 C.F.R. 60, Subpart Ce - Emission guidelines and compliance times for hospital/medical/infectious waste incinerators	This incinerator does not burn hospital/medical/infectious wastes
8, 9, 12, and 23a	40 C.F.R. 60, Subpart Dc - Standards of performance for small industrial-commercial-institutional steam generating units	These emission units were constructed before the applicability date of June 9, 1989
10, 11, 24	40 C.F.R. 60, Subpart Dc - standards of performance for small industrial-commercial-institutional steam generating units	Each heat input rating is less than 10 MMBtu per hour
30	40 C.F.R. 60, Subpart E - Standards of Performance for Incinerators	The maximum charging rate for this incinerator is less than 50 tons per day
30	40 C.F.R. 60, Subpart Ea - Standards of performance for municipal waste combustors for which construction is commenced after December 20, 1989 and on or before September 20, 1994	The maximum charging rate for this incinerator is less than 250 tons per day, and construction commenced after September 20, 1994
30	40 C.F.R. 60, Subpart Eb - Standards of performance for large municipal waste combustors for which construction is commenced after September 20, 1994 or for which modification or reconstruction is commenced after June 19, 1996	The maximum charging rate for this incinerator is less than 250 tons per day

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
30	40 C.F.R. 60, Subpart Ec - Standards of performance for hospital/medical/infectious waste incinerators for which construction is commenced after June 20, 1996	This incinerator does not burn hospital/medical/infectious wastes
T1 Through T6	40 C.F.R. 60 Subpart K - Standards of performance for storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after June 11, 1973, and prior to May 19, 1978	All fuel storage tanks were constructed and installed after 1978
T1 through T6	40 C.F.R. 60 Subpart Ka - Standards of performance for storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after May 18, 1978, and prior to July 23, 1984	Tank T6 was installed in 1982, but it does not store a petroleum liquid as defined in 40 C.F.R. 60.111a(b). Tanks T1 through T5 were constructed and installed after 1984
T1 through T6	40 C.F.R. 60 Subpart Kb - Standards of performance for storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after July 23, 1984	The fuels stored in Tanks T1 through T5 have vapor pressures less than 3.5 kPa. Tank T6 was constructed and installed before 1984
30	40 C.F.R. 60, Subpart O - Standards of performance for sewage treatment plants	This incinerator combusts wastes containing less than 10 percent sewage sludge (dry basis) produced by municipal sewage treatment plants and charges less than 2205 lb per day municipal sewage sludge (dry basis)
30	40 C.F.R. 60, Subpart AAAA - Standards of performance for small municipal waste combustion units for which construction is commenced after August 30, 1999 or for which modification or reconstruction is commenced after June 6, 2001	The maximum charging rate for this incinerator is less than 35 tons per day
30	40 C.F.R. 60, Subpart BBBB - Emission guidelines and compliance times for small municipal waste combustion units constructed on or before August 30, 1999	This incinerator was constructed after August 30, 1999
30	40 C.F.R. 60, Subpart CCCC - Standards of performance for commercial and industrial solid waste incineration units for which construction is commenced after November 30, 1999, or for which modification or reconstruction is commenced on or after June 1, 2001	This incinerator burns more than 30 percent MSW and has the capacity to burn less than 35 tons per day MSW
30	40 C.F.R. 60, Subpart DDDD - Emissions guidelines and compliance times for commercial and industrial solid waste incineration units that commenced construction on or before November 30, 1999	This incinerator was constructed after November 30, 1999
30	40 C.F.R. 61, Subpart C - National emission standard for beryllium	This incinerator does not process beryllium-containing wastes
All	40 C.F.R. 61, Subpart V - NESHAP for equipment leaks (fugitive emission sources)	The stationary source does not operate volatile hazardous air pollutant service
30	40 C.F.R. 62, Subpart HHH - Federal plan requirements for hospital/medical/ infectious waste incinerators constructed on or before June 20, 1996	This incinerator was constructed after June 20, 1996

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
All	40 C.F.R. 63, Subpart Y - NESHAP for marine tank vessel loading operations	The stationary source does not load marine tank vessels
1 through 7b, 25/25a, 26 through 29a, 31 through 34	40 C.F.R. 63 ZZZZ for Reciprocating Internal Combustion Engines	The stationary source is not a major source of HAP emissions.
8-24	40 C.F.R. 63, Subpart DDDDD - NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters	The stationary source is not a major source of HAPs

[18 AAC 50.326(j), 10/1/04]
[40 C.F.R. 71.6(f)(1)(ii), 7/1/03]

Section 11. Visible Emissions Forms

Visible Emissions Field Data Sheet

Certified Observer: _____

Company &
 Stationary Source: _____

Location: _____

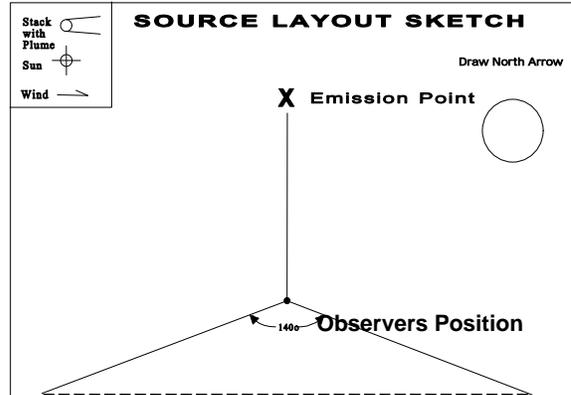
Test No.: _____ Date: _____

Emission Unit: _____

Production Rate/Operating
 Rate: _____

Unit Operating Hours: _____

Hrs. of observation: _____



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

Section 12. Emissions Data

Table G -- Uncontrolled NO_x Emission Factors and Monthly Potential to Emit

Unit	Source Description	Uncontrolled NO _x Emission Factor (EF) (lb/gal), based on percent load							Design Fuel Consumption @ 100% load (gph)	NO _x PTE (tpm)
		≤50	51 – 70	70	71 - 84	85	86 - 99	100		
1, 4b, 5b, 28a, 29a, 33, 34	Caterpillar Model D3516B Quad Turbo Low NO _x Diesel Electric Generator (1,655 kW)	0.516	0.516	0.513	0.540	0.540	0.540	0.474	108.9	21.5
2, 3, 5, 7a	Caterpillar Model D3512B Quad Turbo Low NO _x Diesel Electric Generator (1,135 kW)	0.352	0.352	0.317	0.317	0.269	0.278	0.278	78.3	7.9
2a, 3a, 5a, 6b, 7b, 28b	Caterpillar Model D3512B Quad Turbo Low NO _x Diesel Electric Generator (1,360 kW)	0.516	0.518	0.518	0.518	0.490	0.490	0.422	91.5	17.3
6	Caterpillar Model D3512B Twin Turbo Low NO _x Diesel Electric Generator (1,240 kW)	0.155	0.176	0.176	0.200	0.200	0.219	0.219	85.8	6.9
6a	Caterpillar Model D3512B Quad Turbo Low NO _x Diesel Electric Generator (1,240 kW)	0.252	0.252	0.217	0.217	0.205	0.205	0.203	88.4	6.5
8, 9	Cleaver Brooks Model 400 Steam Boiler	n/a	n/a	n/a	n/a	n/a	n/a	0.0200	122.2	0.9
10, 11	Johnston Steam Boiler	n/a	n/a	n/a	n/a	n/a	n/a	0.0200	37.3	0.3
12	Pedar Halvorsen Furnace	n/a	n/a	n/a	n/a	n/a	n/a	0.0200	252.6	1.8
23a	Cleaver Brooks Model 500 Steam Boiler	n/a	n/a	n/a	n/a	n/a	n/a	0.0200	153.3	1.1
24	Falcon Boiler	n/a	n/a	n/a	n/a	n/a	n/a	0.0200	7.4	0.1
25, 31, 32 (& replacements)	Portable Diesel Electric Generator	n/a	n/a	n/a	n/a	n/a	n/a	0.400	18.7	27
26	Caterpillar Model D3508B Twin Turbo Compressor Engine	0.203	0.203	0.203	0.203	n/a	n/a	n/a	62.6 (79% load)	4.6
27	Caterpillar D3512A	0.335	0.373	0.373	0.373	0.356	0.356	0.305	85.7	9.5
28, 29	Caterpillar D379	n/a	n/a	n/a	n/a	n/a	n/a	0.222	31.0	2.5

4c, 6c	Caterpillar C175-6 Diesel Electric Generator (2,775.3 kW)	0.07	0.18	0.18	0.18	0.29	0.29	0.29	155.1	16.5
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Table Note: NO_x Emission Factors and PTE will change upon Department approval of future source tests. Permittee may conduct new source tests at its discretion, according to a Department-approved test plan, for different engine configuration setting changes (e.g., low-NO_x mode vs. fuel economy mode settings).

Table H – SO₂ Emission Factors and monthly Potential to Emit

Unit	Source Description	Design Fuel Con. @ 100% load (gph)	SO ₂ Potential to Emit (tons/month), based on 0.35 wt% S fuel sulfur content ^a
1, 4b, 5b, 28a, 29a, 33, 34	Caterpillar Model D3516B Quad Turbo Low NO _x Diesel Electric Generator (1,655 kW)	108.9	TBD
2, 3, 5, 7a	Caterpillar Model D3512B Quad Turbo Low NO _x Diesel Electric Generator (1,135 kW)	78.3	1.4
2a, 3a, 5b, 6b, 7b, 28b	Caterpillar Model D3512B Quad Turbo Low NO _x Diesel Electric Generator (1,360 kW)	91.5	TBD
6	Caterpillar Model D3512B Twin Turbo Low NO _x Diesel Electric Generator (1,240 kW)	85.8	1.6
6a	Caterpillar Model D3512B Quad Turbo Low NO _x Diesel Electric Generator (1,240 kW)	88.4	1.6
08, 09	Cleaver Brooks Model 400 Steam Boiler	122.2	2.2
10, 11	Johnston Steam Boiler	37.3	0.7
12	Pedar Halvorsen Furnace	252.6	4.6
23	Cleaver Brooks Model 500 Steam Boiler	153.3	2.8
24	Falcon Boiler	7.4	0.1
25, 31, 32 (& replacements)	Portable Diesel Electric Generator	18.7	0.3
26	Caterpillar Model D3508B Twin Turbo Compressor Engine	62.6 (79% load)	1.1
27	Caterpillar D3512A	85.7	1.6
28, 29	Caterpillar D379	31.0	0.6
4c, 6c	Caterpillar C175-6 Diesel Electric Generator (2,775 kW)	155.1	

Table Notes

^a Sulfur Emission Factor (EF) is 0.0497 lb SO₂ per gallon of fuel, assuming fuel density is 7.1 pounds of fuel per gallon. (SO₂ PTE will change if fuel sulfur content is different from 0.35 wt% S, or if the fuel density is different than 7.1 lb/gal.) The Department calculated SO₂ monthly PTE in this table as follows:

$$\frac{\text{gal}}{\text{hr}} \times \frac{8,760 \text{ hr}}{\text{yr}} \times \frac{\text{yr}}{12 \text{ mo}} \times \frac{0.0497 \text{ lb SO}_2}{\text{gal}} \times \frac{\text{ton}}{2000 \text{ lb}}$$

Section 13. ADEC Notification Form⁹

Akutan Seafood Processing Facility

Stationary Source Name

AQ0231TVP02

Air Quality Permit Number

Trident Seafoods Corporation

Company Name

When did you discover the Excess Emissions/Permit Deviation?

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

When did the event/deviation occur?

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

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

What was the duration of the event/deviation?: _____ : _____ (hrs:min) or _____ days

(total # of hrs, min, or days, if intermittent then include only the duration of the actual emissions/deviation)

Reason for Notification: (please check only 1 box and go to the corresponding section)

- Excess Emissions - Complete Section 1 and Certify.
- Deviation from Permit Condition - Complete Section 2 and Certify
- Deviations from COBC, CO, or Settlement Agreement - Complete Section 2 and Certify

Section 1. Excess Emissions

(a) Was the exceedance: Intermittent Continuous

(b) Cause of Event (Check one that applies):

- Start Up /Shut Natural Cause (weather/earthquake/flood)
- Control Equipment Failure Scheduled Maintenance/Equipment Adjustment
- Bad fuel/coal/gas Upset Condition Other _____

(c) **Description**

Describe briefly, what happened and the cause. Include the parameters/operating conditions exceeded, limits, monitoring data and exceedance.

(d) Emissions Units Involved:

Identify the emission unit involved in the event, using the same identification number and name as in the permit. Identify each emission standard potentially exceeded during the event and the exceedance.

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

⁹ Revised as of December 6, 2004

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

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

(f) Unavoidable Emissions:

Do you intend to assert that these excess emissions were unavoidable? Yes No

Do you intend to assert the affirmative defense of 18 AAC 50.235? Yes No

Certify Report (go to end of form)

Section 2 Permit Deviations

(a) Permit Deviation Type (check one only box, corresponding with the section in the permit).

- Source Specific
 Failure to monitor/report
 General Source Test/Monitoring Requirements
 Recordingkeeping/Reporting/Compliance Certification
 Standard Conditions Not Included in Permit
 Generally Applicable Requirements
 Reporting/Monitoring for Diesel Engines
 Insignificant Source
 Facility Wide
 Other Section _____ (title of section and section number of your permit).

(b) Emission Unit Involved.

Identify the emission unit involved in the event, using the same identification number and name as in the permit. List the corresponding permit conditions and the deviation.

EU ID	Emission Unit Name	Permit Condition / Potential Deviation

(c) Description of Potential Deviation:

Describe briefly what happened and the cause. Include the parameters/operating conditions and the potential deviation.

(d) Corrective Actions:

Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence.

Certification:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name: _____ Title: _____ Date: _____

Signature: _____ Phone Number: _____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j)*

To Submit this Report:

1. Fax to: 907-451-2187;

Or

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

Or

;

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

Or

4. Phone Notification: 907-451-5173

Phone notifications require a written follow-up report.

Or

5. Submission of information contained in this report can be made electronically at the following website:

<https://myalaska.state.ak.us/deca/air/airtoolsweb/>

if submitted online, report must be submitted by an authorized E-Signer for the Stationary Source.