Patrick Wilkin
HES Professional

Marathon Oil Company
5555 San Felipe Street
Houston, TX 77056
Mobile (318) 433-0375
tpwilkin@marathonoil.com

8/27/2021

To: Air Program (Mail Code 8P-AR)
US EPA Region 8
1595 Wynkoop Street
Denver, Colorado 80202

Re: Part 71 Operating Permit Application
Marathon Oil Company – Bakken Asset Team
Hunts Along USA Well pad – McKenzie County, North Dakota

To Whom it May Concern:
Marathon Oil Company's (Marathon) Hunts Along USA well pad has recently become subject to permitting requirements under 40 CFR Part 71 Federal Operating Permit Programs when the facility Volatile Organic Compounds (VOC) emissions exceeded 100 tons per year major source permitting threshold. Attached is the Part 71 Permit application for the facility and the affected wells are listed. A new PTE was submitted on 8/27/21 and the actual emissions for the third year of operation are attached and were under 100 tons therefore we request the Title V permit be immediately withdrawn.

Facility Name	**API Number(s)**
Hunts Along USA 12-1H	33-053-03083
Mamie USA 21-1TFH	33-053-07989
Mark USA 11-1H	33-053-07990
Timothy USA 11-1TFH-2B	33-053-07991
Shoots USA 41-2H	33-053-07988
Demaray USA 41-2TFH	33-053-07693

Please do not hesitate to contact me at the telephone number listed above or by email if you have any questions regarding this registration.

Sincerely,

Patrick Wilkin

Patrick Wilkin

Enclosures

Part 71 Operating Permit Application

Hunts Along USA Well Pad

McKenzie County, North Dakota

August 2021

Marathon Oil Company

Bakken Asset Team

3172 Highway 22 North

Dickinson, ND 58601

Administrative and Plant Wide Information

Project Information

Marathon Oil Company (Marathon) owns and operates the Hunts Along USA Well pad on the Ft. Berthold Indian Reservation in McKenzie County, North Dakota. The Hunts Along USA Well pad is an existing centralized crude oil/condensate, gas, and water production facility with onsite producing wells that flow to the site for separation andstorage.

The site is currently authorized under a Registration for New True Minor Oil and Natural Gas Source in Indian Country. The Registration was submitted to the US EPA Region 8 office on July 30, 2018. Based on the calculations completed to ensure compliance, Marathon is submitting this application to authorize the Hunts Along USA Well pad under a Part 71 Operating Permit. All required Part 71 registration forms are included inthis application.

Site Information

Produced fluid from the formation, initially an emulsion comprised of produced oil, natural gas, and produced water flows to separators and heater treaters. The oil is separated from the natural gas and produced water. Oil and produced water transfer to above ground storage tanks. The tanks are controlled by a low pressure flare (LP-Flare) with a destruction rate efficiency of 98% for all pollutants. The produced natural gasflows to either the sales pipeline or the high pressure flare (HP-Flare) with a destruction rate efficiency of 98% for all pollutants.

Produced water is sent via pipeline to disposal. Oil will pass through a Lease Automated Custody Transfer (LACT) unit and sent to pipeline.

Administrative and Plant Wide Information

EPA United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS (CTAC)

This form must be completed, signed by the "Responsible Official" designated for the facility or emission unit, and sent with each submission of documents (i.e., application forms, updates to applications, reports, or any information required by a part 71 permit).

A. Responsible Official

Name: (Last) _Parker_____ (First) ___Jeff_____ (MI) ____

Title __Production Manager_____

Street or P.O. Box _3172 Highway 22 N_____

City __Dickinson_____ State _ND_ ZIP _58601___ - _____

Telephone (701_) 456_ - _7502___ Ext. _____ Facsimile (701_) 456 - _7545___

B. Certification of Truth, Accuracy and Completeness (to be signed by the responsible official)

I certify under penalty of law, based on information and belief formed after reasonable inquiry, the statements and information contained in these documents are true, accurate and complete.

Name (signed) _____

Name (typed) __Jeff Parker_____ Date: 08 / 26 / 2021

INSTRUCTIONS FOR CTAC
CERTIFICATION OF TRUTH, ACURACY, and COMPLETENESS

Information Collection Burden Estimates

The public reporting and recordkeeping burden for this collection of information is estimated to average 247 hours per respondent per year. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

DETAILED INSTRUCTIONS

This form is for the responsible official to certify that submitted documents (i.e., permit applications, updates to application, reports, and any other information required to be submitted as a condition of a permit) are true, accurate, and complete.

This form should be completed and submitted with each set of documents sent to the permitting authority. It may be used at time of initial application, at each step of a phased application submittal, for application updates, as well as to accompany routine submittals required as a term or condition of a permit.

Section A - Title V permit applications must be signed by a responsible official. The definition of responsible official can be found at 40 CFR 70.2.

Section B - The responsible official must sign and date the certification of truth, accuracy and completeness. This should be done after all application forms are complete and the responsible official has reviewed the information. Normally this would be the last form completed before the package of forms is mailed to the permitting authority.

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
GENERAL INFORMATION AND SUMMARY (GIS)

A. Mailing Address and Contact Information

Facility name ____ Hunts Along USA Well Pad_____

Mailing address: Street or P.O. Box __3172 Hwy 22 N_____

City ___Dickinson_____ State __ND___ ZIP 58601_____-_____

Contact person: Patrick Wilkin_____ Title _HES Professional_____

Telephone (_318__) _433____ - __0375_____ Ext. _____

Facsimile (_____) _____ - _____

B. Facility Location

Temporary source? ___Yes _X_No Plant site location _____

City _____ State_ND__ County__Mountrail_____ EPA Region__8_

Is the facility located within:

Indian lands? _X_YES ___ NO An offshore source in federal waters? ___YES _X_ NO

Non-attainment area? ___ YES _X_NO If yes, for what air pollutants? _____

Within 50 miles of affected State? __ YES X_ NO If yes, What State(s)? _____

C. Owner

Name _Marathon Oil Corporation_____ Street/P.O. Box _3172 Highway 22 N_____

City ___Dickinson_____ State_ND___ ZIP_58601____ - _____

Telephone (_701_) _456__ - _7500_____ Ext_____

D. Operator

Name __Marathon Oil Corporation_____ Street/P.O. Box ___3172 Highway 22 N _____

City __ Dickinson_____ State _ND___ ZIP _58601___ - _____

Telephone (_701_) __456_ - __7500____ Ext_____

E. Application Type

Mark only one permit application type and answer the supplementary question appropriate for the type marked.

_X_Initial Permit ___ Renewal ___ Significant Mod ___ Minor Permit Mod(MPM)

___ Group Processing, MPM ___ Administrative Amendment

For initial permits, when did operations commence? _6__ /_1__ /_2018

For permit renewal, what is the expiration date of current permit? _____/____/_____

F. Applicable Requirement Summary

Mark the types of applicable requirements that apply:

__ SIP X_ FIP/TIP __ PSD __Non-attainment NSR

X_Minor source NSR __ Section 111 __ Phase I acid rain __Phase II acid rain

__ Stratospheric ozone __ OCS regulations __ NESHAP __ Sec. 112(d) MACT

__ Sec. 112(g) MACT __ Early reduction of HAP __ Sec 112(j) MACT __ RMP [Sec.112(r)]

__ Section 129 __ NAAQS, increments or visibility but for temporary sources (This is rare)

Is the source subject to the Deepwater Port Act? ___YES _X_NO

Has a risk management plan been registered? ___YES _X_NO Agency _____

Phase II acid rain application submitted? ___YES _X_NO If YES, Permitting Authority _____

G. Source-Wide PTE Restrictions and Generic Applicable Requirements

Cite and describe any emissions-limiting requirements and/or facility-wide "generic" applicable requirements.

No emissions-limiting requirements applicable. Site is applicable to the Federal Implementation Plan
for Oil and Natural Gas Well Production Facilities; Fort Berthold Indian Reservation (Mandan, Hidatsa
and Arikara Nation), North Dakota

H. Process Description

List processes, products, and SIC codes for the facility.

Process	Products	SIC
Oil and Natural Gas Extraction	Crude Petroleum and Natural Gas	1311

I. Emission Unit Identification

Assign an emissions unit ID and describe each emissions unit at the facility. Control equipment and/or alternative operating scenarios associated with emissions units should by listed on a separate line. Applicants may exclude from this list any insignificant emissions units or activities.

Emissions Unit ID	Description of Unit
HT	4-Heater Treaters
FUG	Fugitives
OT	9-625 BBL Oil Tanks
WT	5-625 BBLWater tanks
HP-Flare	High Pressure Treater Gas Flare
LP-Flare	Low Pressure Flare
ENG	Engines
VRT-Flare	VRT Flare

J. Facility Emissions Summary

Enter potential to emit (PTE) for the facility as a whole for each regulated air pollutant listed below. Enter the name of the single HAP emitted in the greatest amount and its PTE. For all pollutants, stipulations to major source status may be indicated by entering "major" in the space for PTE. Indicate the total actual emissions for fee purposes for the facility in the space provided. Applications for permit modifications need not include actual emissions information.

NOx _____7.2____ tons/yr VOC ____72.1_____ tons/yr SO2 _____ tons/yr

PM-10 _____0.05_____ tons/yr CO _____27.8_____ tons/yr Lead _____ tons/yr

Total HAP ____2.8_____ tons/yr

Single HAP with greatest amount _n-Hexane_____ PTE __2.3_____ tons/yr

Total of regulated pollutants (for fee calculation), Sec. F, line 5 of form FEE __445.5___ tons/yr

K. Existing Federally-Enforceable Permits

Permit number(s) _____ Permit type _____ Permitting authority _____

Permit number(s) _____ Permit type _____ Permitting authority _____

L. Emission Unit(s) Covered by General Permits

Emission unit(s) subject to general permit ___Not Applicable_____

Check one: ___ Application made ___ Coverage granted

General permit identifier _____ Expiration Date ____/____/____

M. Cross-referenced Information

Does this application cross-reference information? __ YES _X_ NO (If yes, see instructions)

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
INITIAL COMPLIANCE PLAN AND COMPLIANCE CERTIFICATION (I-COMP)

SECTION A - COMPLIANCE STATUS AND COMPLIANCE PLAN

Complete this section for each unique combination of applicable requirements and emissions units at the facility. List all compliance methods (monitoring, recordkeeping and reporting) you used to determine compliance with the applicable requirement described above. Indicate your compliance status at this time for this requirement and compliance methods and check "YES" or "NO" to the follow-up question.

Emission Unit ID(s): FUG

Applicable Requirement (Describe and Cite)
Subpart OOOOa-Standards of Performance for Crude Oil and Natural Gas Production
60.5365a and 60.5397a- fugitive emission standards at well sites

Compliance Methods for the Above (Description and Citation):
60.5397a- fugitive emission standards and monitoring components at well sites
60.5397a(c)(7)-optical gas imaging standards for fugitive monitoring

Compliance Status:

X_ In Compliance: Will you continue to comply up to permit issuance? _X_Yes __No

__ Not In Compliance: Will you be in compliance at permit issuance? __Yes __No

__ Future-Effective Requirement: Do you expect to meet this on a timely basis? _Yes _No

Emission Unit ID(s): OT

Applicable Requirement (Description and Citation):
Subpart OOOOa-Standards of Performance for Crude Oil and Natural Gas Production
60.5395a – VOC standards for storage tanks

Compliance Methods for the Above (Description and Citation):
60.5395a(a)(2) – Reduce emissions with a flare with at least 90% DRE

Compliance Status:

X_ In Compliance: Will you continue to comply up to permit issuance? __X_Yes ___No

__Not In Compliance: Will you be in compliance at permit issuance? ___Yes ___No

__ Future-Effective Requirement: Do you expect to meet this on a timely basis? _Yes __No

B. SCHEDULE OF COMPLIANCE

Complete this section if you answered "NO" to any of the questions in section A. Also, complete this section if required to submit a schedule of compliance by an applicable requirement. Please attach copies of any judicial consent decrees or administrative orders for this requirement.

Unit(s)_____
Requirement_____

Reason for Noncompliance. Briefly explain reason for noncompliance at time of permit issuance or that future-effective requirement will not be met on a timely basis:

Narrative Description of how Source Compliance Will be Achieved. Briefly explain your plan for achieving compliance:

Schedule of Compliance. Provide a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance, including a date for final compliance.

Remedial Measure or Action	Date to be Achieved

C. SCHEDULE FOR SUBMISSION OF PROGRESS REPORTS

Only complete this section if you are required to submit one or more schedules of compliance in section B or if an applicable requirement requires submittal of a progress report. If a schedule of compliance is required, your progress report should start within 6 months of application submittal and subsequently, no less than every six months. One progress report may include information on multiple schedules of compliance.

Contents of Progress Report (describe):

First Report____/____/___ Frequency of Submittal_____

Contents of Progress Report (describe):

First Report____/____/___ Frequency of Submittal_____

D. SCHEDULE FOR SUBMISSION OF COMPLIANCE CERTIFICATIONS

This section must be completed once by every source. Indicate when you would prefer to submit compliance certifications during the term of your permit (at least once per year).

Frequency of submittal___Annual_____ Beginning__10/__30/ 2021

E. COMPLIANCE WITH ENHANCED MONITORING & COMPLIANCE CERTIFICATION REQUIREMENTS

This section must be completed once by every source. To certify compliance with these, you must be able to certify compliance for every applicable requirement related to monitoring and compliance certification at every unit.

Enhanced Monitoring Requirements: _X__ In Compliance ___ Not In Compliance

Compliance Certification Requirements: _X__ In Compliance ___ Not In Compliance

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
FEE FILING FORM (FF)

The purpose of this form is to ensure that fee payments made by check are credited to the proper facility and to the proper government account. Send this form, along with form **FEE** and the check, to the appropriate lockbox bank address listed on the following page. This form is required whenever you pay by check, including for initial fee payment and to pay annual fees. Part 71 fees may be paid by check or electronically, and further information on making payments by check or electronically is provided on the following page.

Source or Facility Name__ Hunts Along USA Well Pad_____

Source Location __N 47.932497, W 102.665839_____

EPA Region where Source Located __8_____ _

Mailing Address:

Street/P.O. Box __3172 Highway 22 N_____

City__Dickinson_____

State _ND___ ZIP _58601____ - _____

Contact Person:__Patrick Wilkin_____

Title__HES Professional_____

Telephone (318_) 433___ - _0375_____ Ext. _____

Total Fee Payment Remitted: $ __33833_._02_

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
FEE CALCULATION WORKSHEET (FEE)

Use this form initially, or thereafter on an annual basis, to calculate part 71 fees.

A. General Information

Type of fee (Check one): _X_Initial ___Annual

Deadline for submitting fee calculation worksheet _6__/_1_/_2019__

For initial fees, emissions are based on (Check one):

_X_ Actual emissions for the preceding calendar year. (Required in most circumstances.)

___ Estimates of actual emissions for the current calendar year. (Required when operations commenced during the preceding calendar year.)

Date commenced operations __6_/_1_/_2018_

___ Estimates of actual emissions for the preceding calendar year. (Optional after a part 71 permit was issued to replace a part 70 permit, but only if initial fee payment is due between January 1 and March 31; otherwise use actual emissions for the preceding calendar year.)

For annual fee payment, you are required to use actual emissions for the preceding calendar year.

B. Source Information: Complete this section only if you are paying fees but not applying for a permit.

Source or facility name _____

Mailing address: Street or P.O. Box _____

City_____ State_____ ZIP_____ - _____

Contact person_____ Title_____

Telephone (_____) _____ - _____ Ext_____ Part 71 permit no. _____

C. Certification of Truth, Accuracy and Completeness: Only needed if not submitting a separate form CTAC.

I certify under penalty of law, based on information and belief formed after reasonable inquiry, the statements and information contained in this submittal (form and attachments) are true, accurate and complete.

Name (signed) _____

Name (typed) _____ Date:____ /____ /_____

D. Annual Emissions Report for Fee Calculation Purposes -- Non-HAP

You may use this to report actual emissions (tons per year) of regulated pollutants (for fee calculation) on a calendar-year basis for both initial and annual fee calculation purposes. Section E is designed to report HAP emissions. Quantify all actual emissions, including fugitives, but do not include insignificant emissions and certain regulated air pollutants that are not counted for fee purposes, such as CO and GHGs (see instructions). Sum the emissions in each column to calculate subtotals. Subtotals should be reported to the nearest tenth (0.1) of a ton at the bottom of the page. If any subtotal exceeds 4,000 tons, enter 4,000 for that column.

This data is for __2018/19_____ (year)

Emission Unit ID	NOx	VOC	SO2	PM10	Lead	Other
HT	0.86	0.05	0	0.07		
ENG	9.46	0.03		0.02		
FUG		11.67				
OT		78.89				
WT		0.38				
HP-Flare	57.38	229.05				
VRT Flare	4.5	46.4				
LP-Flare	2.51	0.02				
SUBTOTALS:	78.9	366.5	0	0.1		

E. Annual Emissions Report for Fee Calculation Purposes -- HAP

HAP Identification. Identify individual HAP emitted at the facility, identify the CAS number, and assign a unique identifier for use in the second table in this section. Whenever assigning identifier codes, use "HAP1" for the first, "HAP2" for the second, and so on.

Name of HAP	CAS No	Identifier
Benzene	71-43-2	HAP1
Toluene	108-88-3	HAP2
Ethylbenzene	100-41-4	HAP3
Xylene	1330-20-7	HAP4
n-hexane	110-54-3	HAP5
2,2,4-Trimethylpentane	540-84-1	HAP6

HAP Emissions. Report the actual emissions of individual HAP identified above. Use the identifiers assigned in the table above. Include all emissions, including fugitives, and do not include insignificant emissions. Sum the emissions in each column to calculate subtotals. Report subtotals to the nearest tenth (0.1) of a ton at the bottom of the page. If any subtotal exceeds 4,000 tons, enter 4,000.

This data is for ___2018/19_____ (year)

Emissions Unit ID	Actual Emissions (Tons/Year)						
	HAP_1_	HAP_2_	HAP_3_	HAP_4_	HAP_5_	HAP_6_	HAP___
FUG	<0.1	<0.1	<0.1	<0.1	0.2	0	
OT	0.1	<0.1	<0.1	0.1	2.1	0	
HP Flare	0.1	0.1	<0.1	0.1	1.9	0	
MP Flare	0.1	<0.1	<0.1	<0.1	0.9	0	
SUBTOTALS:	0.3	0.1	<0.1	0.2	5.0	0	

F. Fee Calculation Worksheet

This worksheet is used to calculate the total fee owed (including the emissions-based fee and the GHG fee adjustment) for both initial and annual fee payment purposes. Reconciliation is only for cases where you are paying the annual fee and you used any type of estimate of actual emissions when you calculated the initial fee. If you do not need to reconcile fees, complete line 1-5 (emissions summary) and then skip down to line 21 (emission calculation). See instructions for more detailed explanation.

EMISSIONS SUMMARY

1. Sum the subtotals from section D of this form (non-HAP) and enter the total, rounded to the nearest tenth (0.1) of a ton.	445.5
2. Sum the subtotals from section E of this form (HAP) and enter the total, rounded to the nearest tenth (0.1) of a ton.	6.0
3. Sum lines 1 and 2.	451.5
4. Enter the emissions that were counted twice. If none, enter "0."	6.0
5. Subtract line 4 from line 3, round to the nearest ton, and enter the result here. This is the total emissions that count for fees purposes.	445.5
RECONCILIATION (WHEN INITIAL FEES WERE BASED ON ESTIMATES FOR THE "CURRENT" CALENDAR YEAR) Only complete lines 6-10 if you are paying the first annual fee and initial fees were based on estimated actual emissions for the calendar year in which you paid initial fees; otherwise skip to line 11 or to line 21.	
6. Enter the total estimated actual emissions for the year the initial fee was paid (previously reported on line 5 of the initial fee form).	
7. If line 5 is greater than line 6, subtract line 6 from line 5, and enter the result. Otherwise enter "0."	
8. If line 6 is greater than line 5, subtract line 5 from line 6, and enter the result. Otherwise enter "0."	
9. If line 7 is greater than 0, multiply line 7 by last year's fee rate ($/ton) and enter the result here. This is the underpayment. Go to line 21.	
10. If line 8 is greater than 0, multiply line 8 by last year's fee rate ($/ton) and enter the result here. This is the overpayment. Go to line 21.	

RECONCILIATION (WHEN INITIAL FEES WERE BASED ON ESTIMATES FOR THE "PRECEDING" CALENDAR YEAR) Only complete lines 11-20 if you are paying the first annual fee and initial fees were based on estimated actual emissions for the calendar year preceding initial fee payment; otherwise skip to line 21. If completing this section, you will also need to complete sections D and E to report actual emissions for the calendar year preceding initial fee payment.	
11. Sum the actual emissions from section D (non-HAP) for the calendar year preceding initial fee payment and enter the result here.	
12. Sum the actual emissions from section E (HAP) for the calendar year preceding initial fee payment and enter the result here.	
13. Add lines 11 and 12 and enter the total here. These are total actual emissions for the calendar year preceding initial fee payment.	
14. Enter double counted emission from line 13 here. If none, enter "0."	
15. Subtract line 14 from line 13, round to the nearest ton, and enter the result here.	
16. Enter the total estimated actual emissions previously reported on line 5 of the initial fee form. These are estimated actual emissions for the calendar year preceding initial fee payment.	
17. If line 15 is greater than line 16, subtract line 16 from line 15, and enter the result here. Otherwise enter "0."	
18. If line 16 is greater than line 15, subtract line 15 from line 16, and enter the result here. Otherwise enter "0."	
19. If line 17 is greater than 0, multiply line 17 by last year's fee rate ($/ton) and enter the result here. This is the underpayment.	
20. If line 18 is greater than 0, multiply line 18 by last year's fee rate ($/ton) and enter the result on this line. This is the overpayment.	
EMISSION FEE CALCULATION	
21. Multiply line 5 (tons) by the current fee rate ($/ton) and enter the result here. This is the unadjusted emissions fee. Continue on to line 23.	24,324.30

GHG FEE ADJUSTMENT	
22. If you are submitting an initial permit application and this is the first time you are paying fees, enter $2,236, otherwise enter “0”. [Note that any updates to the initial application are covered under this one-time charge.]	2236
23. Enter the number of permit modifications (or related permit actions) you have submitted to the permitting authority since you last paid fees. If none, skip to line 25.	
24. Multiply the number in line 23 by $365 and enter the result.	
25. If you have submitted a permit renewal application since the last time you paid fees enter $520, otherwise enter “0”	0
26. Sum line 22, 24, and 25 and enter the result. This is the GHG fee adjustment	2236
OTHER ADJUSTMENTS	
26. Add the total on line 21 and the total on line 26 and enter the result.	26,560.30
27. Enter any underpayment from line 9 or 19 here. Otherwise enter "0."	0
28. Enter any overpayment from line 10 or 20 here. Otherwise enter "0."	0
29. If line 28 is greater than "0," add it to line 27 and enter the result here. If line 29 is greater than "0," subtract this from line 27 and enter the result here. Otherwise enter the amount on line 27 here. This is the fee adjusted for over/underpayment.	26,560.30
30. Enter any credit for fee assessment error here. Otherwise, enter "0."	0
31. Subtract line 31 from line 30 and enter the result here. Stop here. This is the **TOTAL FEE (AFTER ADJUSTMENTS)** that you must remit to EPA.	26,560.30

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
FEE CALCULATION WORKSHEET (FEE)

Use this form initially, or thereafter on an annual basis, to calculate part 71 fees.

A. General Information

Type of fee (Check one): __Initial _X__Annual

Deadline for submitting fee calculation worksheet _6__/_1_/_2020__

For initial fees, emissions are based on (Check one):

_X_ Actual emissions for the preceding calendar year. (Required in most circumstances.)

___ Estimates of actual emissions for the current calendar year. (Required when operations commenced during the preceding calendar year.)

Date commenced operations __6_/_1_/_2018_

___ Estimates of actual emissions for the preceding calendar year. (Optional after a part 71 permit was issued to replace a part 70 permit, but only if initial fee payment is due between January 1 and March 31; otherwise use actual emissions for the preceding calendar year.)

For annual fee payment, you are required to use actual emissions for the preceding calendar year.

C. Source Information: Complete this section only if you are paying fees but not applying for a permit.

Source or facility name _____

Mailing address: Street or P.O. Box _____

City_____ State_____ ZIP_____ - _____

Contact person_____ Title_____

Telephone (_____) _____ - _____ Ext_____ Part 71 permit no. _____

C. Certification of Truth, Accuracy and Completeness: Only needed if not submitting a separate form CTAC.

I certify under penalty of law, based on information and belief formed after reasonable inquiry, the statements and information contained in this submittal (form and attachments) are true, accurate and complete.

Name (signed) _____

Name (typed) _____ Date:____ /____ /_____

D. Annual Emissions Report for Fee Calculation Purposes -- Non-HAP

You may use this to report actual emissions (tons per year) of regulated pollutants (for fee calculation) on a calendar-year basis for both initial and annual fee calculation purposes. Section E is designed to report HAP emissions. Quantify all actual emissions, including fugitives, but do not include insignificant emissions and certain regulated air pollutants that are not counted for fee purposes, such as CO and GHGs (see instructions). Sum the emissions in each column to calculate subtotals. Subtotals should be reported to the nearest tenth (0.1) of a ton at the bottom of the page. If any subtotal exceeds 4,000 tons, enter 4,000 for that column.

This data is for __2019/20_____ (year)

Emission Unit ID	NOx	VOC	SO2	PM10	Lead	Other
HT	0.86	0.05	0	0.07		
ENG	9.48	0.03		0.02		
FUG		10.34				
OT		25.24				
WT		0.13				
HP-Flare	13.0	53.37				
VRT Flare	1.61	17.09				
LP-Flare	2.13	0.02				
SUBTOTALS:	26.9	106.3	0	0.1		

E. Annual Emissions Report for Fee Calculation Purposes -- HAP

HAP Identification. Identify individual HAP emitted at the facility, identify the CAS number, and assign a unique identifier for use in the second table in this section. Whenever assigning identifier codes, use "HAP1" for the first, "HAP2" for the second, and so on.

Name of HAP	CAS No	Identifier
Benzene	71-43-2	HAP1
Toluene	108-88-3	HAP2
Ethylbenzene	100-41-4	HAP3
Xylene	1330-20-7	HAP4
n-hexane	110-54-3	HAP5
2,2,4-Trimethylpentane	540-84-1	HAP6

HAP Emissions. Report the actual emissions of individual HAP identified above. Use the identifiers assigned in the table above. Include all emissions, including fugitives, and do not include insignificant emissions. Sum the emissions in each column to calculate subtotals. Report subtotals to the nearest tenth (0.1) of a ton at the bottom of the page. If any subtotal exceeds 4,000 tons, enter 4,000.

This data is for ___2017/18_____ (year)

Emissions Unit ID	Actual Emissions (Tons/Year)						
	HAP_1_	HAP_2_	HAP_3_	HAP_4_	HAP_5_	HAP_6_	HAP___
FUG	0.1	<0.1	<0.1	<0.1	0.1	0	
OT	0.1	0.1	<0.1	<0.1	0.3	0	
HP Flare	<0.1	<0.1	<0.1	<0.1	0.3	0	
VRT Flare	<0.1	<0.1	<0.1	<0.1	0.4	0	
SUBTOTALS:	0.2	0.1	<0.1	<0.1	1	0	

F. Fee Calculation Worksheet

This worksheet is used to calculate the total fee owed (including the emissions-based fee and the GHG fee adjustment) for both initial and annual fee payment purposes. Reconciliation is only for cases where you are paying the annual fee and you used any type of estimate of actual emissions when you calculated the initial fee. If you do not need to reconcile fees, complete line 1-5 (emissions summary) and then skip down to line 21 (emission calculation). See instructions for more detailed explanation.

EMISSIONS SUMMARY

26. Sum the subtotals from section D of this form (non-HAP) and enter the total, rounded to the nearest tenth (0.1) of a ton.	133.2
27. Sum the subtotals from section E of this form (HAP) and enter the total, rounded to the nearest tenth (0.1) of a ton.	2.1
28. Sum lines 1 and 2.	135.3
29. Enter the emissions that were counted twice. If none, enter "0."	2.1
30. Subtract line 4 from line 3, round to the nearest ton, and enter the result here. This is the total emissions that count for fees purposes.	133.2
RECONCILIATION (WHEN INITIAL FEES WERE BASED ON ESTIMATES FOR THE "CURRENT" CALENDAR YEAR) Only complete lines 6-10 if you are paying the first annual fee and initial fees were based on estimated actual emissions for the calendar year in which you paid initial fees; otherwise skip to line 11 or to line 21.	
31. Enter the total estimated actual emissions for the year the initial fee was paid (previously reported on line 5 of the initial fee form).	
32. If line 5 is greater than line 6, subtract line 6 from line 5, and enter the result. Otherwise enter "0."	
33. If line 6 is greater than line 5, subtract line 5 from line 6, and enter the result. Otherwise enter "0."	
34. If line 7 is greater than 0, multiply line 7 by last year's fee rate ($/ton) and enter the result here. This is the underpayment. Go to line 21.	
35. If line 8 is greater than 0, multiply line 8 by last year's fee rate ($/ton) and enter the result here. This is the overpayment. Go to line 21.	

RECONCILIATION (WHEN INITIAL FEES WERE BASED ON ESTIMATES FOR THE "PRECEDING" CALENDAR YEAR) Only complete lines 11-20 if you are paying the first annual fee and initial fees were based on estimated actual emissions for the calendar year preceding initial fee payment; otherwise skip to line 21. If completing this section, you will also need to complete sections D and E to report actual emissions for the calendar year preceding initial fee payment.	
36. Sum the actual emissions from section D (non-HAP) for the calendar year preceding initial fee payment and enter the result here.	
37. Sum the actual emissions from section E (HAP) for the calendar year preceding initial fee payment and enter the result here.	
38. Add lines 11 and 12 and enter the total here. These are total actual emissions for the calendar year preceding initial fee payment.	
39. Enter double counted emission from line 13 here. If none, enter "0."	
40. Subtract line 14 from line 13, round to the nearest ton, and enter the result here.	
41. Enter the total estimated actual emissions previously reported on line 5 of the initial fee form. These are estimated actual emissions for the calendar year preceding initial fee payment.	
42. If line 15 is greater than line 16, subtract line 16 from line 15, and enter the result here. Otherwise enter "0."	
43. If line 16 is greater than line 15, subtract line 15 from line 16, and enter the result here. Otherwise enter "0."	
44. If line 17 is greater than 0, multiply line 17 by last year's fee rate ($/ton) and enter the result here. This is the underpayment.	
45. If line 18 is greater than 0, multiply line 18 by last year's fee rate ($/ton) and enter the result on this line. This is the overpayment.	
EMISSION FEE CALCULATION	
46. Multiply line 5 (tons) by the current fee rate ($/ton) and enter the result here. This is the unadjusted emissions fee. Continue on to line 23.	7,272.72

GHG FEE ADJUSTMENT	
47. If you are submitting an initial permit application and this is the first time you are paying fees, enter $2,236, otherwise enter “0”. [Note that any updates to the initial application are covered under this one-time charge.]	0
48. Enter the number of permit modifications (or related permit actions) you have submitted to the permitting authority since you last paid fees. If none, skip to line 25.	
49. Multiply the number in line 23 by $365 and enter the result.	
50. If you have submitted a permit renewal application since the last time you paid fees enter $520, otherwise enter “0”	0
27. Sum line 22, 24, and 25 and enter the result. This is the GHG fee adjustment	0
OTHER ADJUSTMENTS	
32. Add the total on line 21 and the total on line 26 and enter the result.	7272.72
33. Enter any underpayment from line 9 or 19 here. Otherwise enter "0."	0
34. Enter any overpayment from line 10 or 20 here. Otherwise enter "0."	0
35. If line 28 is greater than "0," add it to line 27 and enter the result here. If line 29 is greater than "0," subtract this from line 27 and enter the result here. Otherwise enter the amount on line 27 here. This is the fee adjusted for over/underpayment.	7272.72
36. Enter any credit for fee assessment error here. Otherwise, enter "0."	0
37. Subtract line 31 from line 30 and enter the result here. Stop here. This is the **TOTAL FEE (AFTER ADJUSTMENTS)** that you must remit to EPA.	7272.72

Emissions Summary – PTE
Emissions Type and Limitation Compliance

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
POTENTIAL TO EMIT (PTE)

For each emissions unit at the facility, list the unit ID and the PTE of each air pollutant listed below and sum the values to determine the total PTE for the facility. It may be helpful to complete form **EMISS** before completing this form. Report each pollutant at each unit to the nearest tenth (0.1) of a ton; values may be reported with greater precision (i.e., more decimal places) if desired. Report facility total PTE for each listed pollutant on this form and in section **J** of form **GIS**. The HAP column is for the PTE of all HAPs for each unit. You may use an attachment to show any pollutants that may be present in major amounts that are not already listed on the form (this is not common).

Emissions Unit ID	Regulated Air Pollutants and Pollutants for which Source is Major (PTE in tons/yr)						
	NOx	**VOC**	**SO2**	**PM10**	**CO**	**Lead**	**HAP**
HT	0.64	0.05			0.54		
LP-Flare	3.72	0.02			15.65		
HP-Flare	2.81	15.61			11.64		0.27
FUG		10.33					0.14
WT		0.30					0.02
OT		45.82					2.26
Pne-C		0					0
FACILITY TOTALS:	**7.2**	**72.1**			**27.8**		**2.8**

Gas and Liquids Analyses

Emissions Data and Calculations

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID _FUG_____

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	11.7	2.4	10.3	
HAP	0.3	0.1	0.3	

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID _HP Flare_____

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	229.1	3.6	15.6	
HAP	2.2	<0.1	0.2	
CO	237.2	2.7	11.6	82083-46-5
NOx	57.4	0.9	3.7	

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID _HT_____

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	<0.1	<0.1	<0.1	
CO	0.7	0.1	0.5	82083-46-5
PM10	<0.1	<0.1	<0.1	
SO2	0	0	0	
NOx	0.9	0.1	0.6	

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID _LP Flare_____

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	<0.1	<0.1	<0.1	
HAP	<0.1	<0.1	<0.1	
NOx	6.7	0.8	3.7	
CO	28.3	3.6	15.7	82083-46-5

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID _OT_____

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	78.9	10.5	45.8	
HAP	2.4	0.5	2.3	

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID _WT_____

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	0.1	<0.1	0.1	

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID _VRT Flare_____

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	46.4	0	0	
HAP	1.0	0	0	
NOx	4.5	0	0	
CO	18.8	0	0	82083-46-5

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID _ENG_____

B. Identification and Quantification of Emissions

For each emissions unit identified above, list each regulated air pollutant or other pollutant for which the source is major, then list any other regulated pollutant (for fee calculation) not already listed. HAP may be simply listed as "HAP." Next, calculate PTE for applicability purposes and actual emissions for fee purposes for each pollutant. Do not calculate PTE for air pollutants listed solely for fee purposes. Include all fugitives for fee purposes. See instructions concerning GHGs. Values should be reported to the nearest tenth (0.1) of a ton for yearly values or tenth (0.1) of a pound for hourly values.

Air Pollutants	Emission Rates			CAS No.
	Actual Annual Emissions (tons/yr)	Potential to Emit		
		Hourly (lb/hr)	Annual (tons/yr)	
VOC	<0.1	0	0	
HAP	0.1	0	0	
NOx	9.5	0	0	
CO	0.8	0	0	82083-46-5

Insert actual emissions calc pages

Fuel Combustion Sources

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID __HP-Flare____ Description__Treater Flare_____

SIC Code (4-digit) __1311____ SCC Code_31000160

B. Emissions Unit Description

Primary use _Flare_____ Temporary Source ___Yes X__No

Manufacturer _Steffes_____ Model No. __SHC-6_____

Serial Number _____ Installation Date__4_/_1_/_2018__

Boiler Type: ___ Industrial boiler ___ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only):

__ Hand fired __Spreader stoker __Underfeed stoker __Overfeed stoker

__ Traveling grate __Shaking grate __Pulverized, wet bed __ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s)__Natural Gas_____ Standby fuel type(s)___None_____

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
Natural Gas	Negligible	Negligible	1405 BTU/scf

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
Natural Gas	1,206,134 MSCF	137,687 scf	1,206,134 MSCF

E. Associated Air Pollution Control Equipment

Emissions unit ID_____ Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID __LP-Flare____ Description__Tank Flare_____

SIC Code (4-digit) __1311____ SCC Code_2310021011

B. Emissions Unit Description

Primary use _Flare_____ Temporary Source ___Yes X__No

Manufacturer _Steffes_____ Model No. __SAA-4

Serial Number _____ Installation Date__4_/_1_/_2018__

Boiler Type: ___ Industrial boiler ___ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only):

__ Hand fired __Spreader stoker __Underfeed stoker __Overfeed stoker

__ Traveling grate __Shaking grate __Pulverized, wet bed __ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s)__Natural Gas_____ Standby fuel type(s)___None_____

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
Tank Vapors	Negligible	Negligible	2729 BTU/scf

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
Tanks Vapors	72,073 MSCF	8228 scf	72,073 MSCF

E. Associated Air Pollution Control Equipment

Emissions unit ID_____ Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID __VRT Flare____ Description__VRT Flare_____

SIC Code (4-digit) __1311____ SCC Code_

B. Emissions Unit Description

Primary use _Flare_____ Temporary Source ___Yes X__No

Manufacturer _Steffes_____ Model No. __SHC-6

Serial Number _____ Installation Date__4_/_1_/_2018__

Boiler Type: ___ Industrial boiler ___ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only):

__ Hand fired __Spreader stoker __Underfeed stoker __Overfeed stoker

__ Traveling grate __Shaking grate __Pulverized, wet bed __ Pulverized, dry bed

Actual Heat Input _____MM BTU/hr Max. Design Heat Input _____MM BTU/hr

C. Fuel Data

Primary fuel type(s)__Natural Gas_____ Standby fuel type(s)___None_____

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
Tank Vapors	Negligible	Negligible	2444 BTU/scf

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
Tanks Vapors	54,049 MSCF	6170 scf	54,049 MSCF

E. Associated Air Pollution Control Equipment

Emissions unit ID_____ Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

G. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID __HT____ Description__Heater Treater_____

SIC Code (4-digit) __1311____ SCC Code_31000128

B. Emissions Unit Description

Primary use _Oil Seperation_____ Temporary Source ___Yes X__No

Manufacturer _Sivalls_____ Model No. VT-0620FEP-TI_

Serial Number _137149, 136774, 83674-1-3, 85170-1-3 Installation Date__4_/_1_/_2018__

Boiler Type: ___ Industrial boiler _X_ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only):

__ Hand fired __Spreader stoker __Underfeed stoker __Overfeed stoker

__ Traveling grate __Shaking grate __Pulverized, wet bed __ Pulverized, dry bed

Actual Heat Input __0.5_____MM BTU/hr Max. Design Heat Input ___0.5____MM BTU/hr

C. Fuel Data

Primary fuel type(s)__Natural Gas_____ Standby fuel type(s)___None_____

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
Natural Gas	Negligible	Negligible	1020 BTU/scf

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
Natural Gas	17,176 MSCF	980 scf	17,176 MSCF

E. Associated Air Pollution Control Equipment

Emissions unit ID_____ Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information

Emissions unit ID __ENG___ Description__Engine_____

SIC Code (4-digit) __1311____ SCC Code_31000128

B. Emissions Unit Description

Primary use _Gas Cooler_____ Temporary Source ___Yes X__No

Manufacturer _ _____ Model No.

Serial Number _ Installation Date__4_/_1_/_2018__

Boiler Type: ___ Industrial boiler _ _ Process burner ___ Electric utility boiler

Other (describe) _____

Boiler horsepower rating_____ Boiler steam flow (lb/hr)_____

Type of Fuel-Burning Equipment (coal burning only):

__ Hand fired __Spreader stoker __Underfeed stoker __Overfeed stoker

__ Traveling grate __Shaking grate __Pulverized, wet bed __ Pulverized, dry bed

Actual Heat Input __0.5_____MM BTU/hr Max. Design Heat Input ___0.5____MM BTU/hr

C. Fuel Data

Primary fuel type(s)__Natural Gas_____ Standby fuel type(s)___None_____

Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)
Natural Gas	Negligible	Negligible	1020 BTU/scf

D. Fuel Usage Rates

Fuel Type	Annual Actual Usage	Maximum Usage	
		Hourly	Annual
Natural Gas	4964 MSCF	567 scf	4964 MSCF

E. Associated Air Pollution Control Equipment

Emissions unit ID_____ Device type_____

Air pollutant(s) Controlled_____ Manufacturer_____

Model No._____ Serial No._____

Installation date_____/_____/_____ Control efficiency (%) _____

Efficiency estimation method_____

G. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (°F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____.____ Velocity (ft/sec) _____._____

VOC Emitting Sources

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID __FUG_____ Description _Fugitives_____

SIC Code (4-digit) _1311_____ SCC Code _____

B. Emissions Unit Description

Equipment type _Equipment Fugitives_____ Temporary source: ___Yes _X_No

Manufacturer_____ Model No. _____

Serial No. _____ Installation date____/____/_____

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID _____ Device Type_____

Manufacturer _____ Model No_____

Serial No. _____ Installation date ____/____/_____

Control efficiency (%) _____.___ Capture efficiency (%) _____.___

Air pollutant(s) controlled_____ Efficiency estimation method _____

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____._____

E. VOC-containing Substance Data

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
Natural Gas	8006-14-2	Natural Gas				

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID __OT_____ Description _Oil Tanks_____

SIC Code (4-digit) _1311_____ SCC Code ___23100210010

B. Emissions Unit Description

Equipment type _Tank_____ Temporary source: ___Yes _X_No

Manufacturer___Worthington Model No. ____625 BBL_____

Serial No. _____ Installation date__4_/_1__/_2018___

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID __LP-Flare__ Device Type___Flare_____

Manufacturer _____ Model No_____SAA4_____

Serial No. ___Steffes_____ Installation date _4___/__1_/___2018__

Control efficiency (%) ___98____.___ Capture efficiency (%) __100___.___

Air pollutant(s) controlled_VOC, HAP_ Efficiency estimation method _Engineering calculation

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____._____

E. VOC-containing Substance Data

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
Crude Oil	N/A	Crude Oil	53,654,782	146,999	53,654,782	6.26

United States Environmental Protection Agency

OMB No. 2060-0336, Expires 11/30/2022

Federal Operating Permit Program (40 CFR Part 71)
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

A. General Information

Emissions unit ID __WT_____ Description _Produced Water Tanks_____

SIC Code (4-digit) _1311_____ SCC Code _____

B. Emissions Unit Description

Equipment type _Tank_____ Temporary source: ___Yes _X_No

Manufacturer____Worthington Model No. ____625 BBL_____

Serial No. _____ Installation date__4_/_1__/_2018___

Articles being coated or degreased _____

Application method _____

Overspray (surface coating) (%) _____ Drying method_____

No. of dryers _____ Tank capacity (degreasers) (gal) _____

C. Associated Air Pollution Control Equipment

Emissions unit ID _LP-Flare___ Device Type___Flare_____

Manufacturer __Steffes_____ Model No___SAA-4_____

Serial No. _____ Installation date _4__/__1_/__2018__

Control efficiency (%) __98_____.___ Capture efficiency (%) __100___.___

Air pollutant(s) controlled_VOC, HAP_ Efficiency estimation method _Engineering Calculation

D. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) _____._____ Inside stack diameter (ft) _____._____

Stack temp (F) _____._____ Design stack flow rate (ACFM) _____.____

Actual stack flow rate (ACFM) _____ Velocity (ft/sec) _____._____

E. VOC-containing Substance Data

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
Produced water with 1% VOC content	N/A	VOC	24,512,846	67,158	24,512,846	0.063

Supporting Documents

Compliance with Federal Requirements

Regulatory Applicability

PSD, 40 CFR Part 52 [Applicable]

Uncontrolled potential facility-wide total emissions of VOC are greater than the PSD threshold of 250 TPY of any single regulated pollutant.

NSPS, 40 CFR Part 60 [OOOOa Applicable]

Subpart Kb, VOL Storage Vessels. This subpart regulates hydrocarbon storage tanks larger than 19,813-gallons capacity and built after July 23, 1984. All storage tank capacities at this facility are smaller than the threshold level and are located prior to custody transfer.

Subpart KKK, Equipment Leaks of VOC from Onshore Natural Gas Processing Plants. This subpart sets standards natural gas processing plants. This facility is not a natural gas processing plant; therefore, the facility will not be subject to Subpart KKK.

Subpart JJJJ, Stationary Spark Ignition (SI) Internal Combustion Engines (ICE). This subpart establishes standards for Stationary Spark Ignition Internal Combustion Engines. There are not any current engines on site subject to Subpart JJJJ.

Subpart OOOO, Oil and Gas Operations. This subpart establishes standards for multiple process units in the crude oil and natural gas production, transmission, and distribution sectors. The applicability of this regulation is to “a gas wellhead affected facility” which is defined as “a single natural gas well.” Since the facility is an oil well, it is not subject to the well completion requirements. Any pneumatic controllers used at the facility will be intermittent and not continuous bleed; therefore, the requirements for pneumatic controllers will not apply. Storage tanks subject to this rule are those with the potential to emit greater than six (6) tons per year of volatile organic compounds. The tanks at this facility were installed after September 18, 2015, and therefore, they are subject to this subpart.

Subpart OOOOa, Crude Oil and Natural Gas Facilities. This subpart applies to hydraulically fractured wells, centrifugal compressors, reciprocating compressors, pneumatic controllers and pumps, natural gas processing plants, storage vessels, equipment leaks, and natural gas sweetening units that commence construction, modification, or reconstruction after September 18, 2015. The storage vessels and equipment leaks at this facility were installed after this date and are therefore subject to this subpart.

NESHAP, 40 CFR Part 61 [Not Applicable]

There are no emissions of any of the regulated pollutants: arsenic, asbestos, benzene, beryllium, coke oven emissions, mercury, radionuclides or vinyl chloride except for trace amounts of benzene.

Subpart J, Equipment Leaks of Benzene, only affects process streams which contain more than 10% benzene by weight. All process streams at this facility are below this threshold.

NESHAP, 40 CFR Part 63 [Not Applicable]

Subpart HH, National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities. For area sources of HAP emissions, the rule sets standards for glycol dehydration units. There are no such units at this facility; therefore, this subpart does not apply.

Subpart ZZZZ Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. The engine is subject to existing area source requirements under Subpart ZZZZ.

Compliance Assurance Monitoring, 40 CFR 64 [Not Applicable]

Compliance Assurance Monitoring, as published in the Federal Register on October 22, 1997, applies to any pollutant-specific emission unit at a major source that is required to obtain a Title V permit, if it meets all the following criteria:
• It is subject to an emission limit or standard for an applicable regulated air pollutant.
• It uses a control device to achieve compliance with the applicable emission limit or standard.
• It has potential emissions, prior to the control device, of the applicable regulated air pollutant of 100 TPY.
The storage tanks at the facility meet all three criteria for CAM applicability, but are exempt per §64.2(b) since the tanks are subject to NSPS OOOO, which was promulgated after 1990.

Chemical Accident Prevention Provisions, 40 CFR Part 68 [Not Applicable]

This facility does not process or store more than the threshold quantity of any regulated substance (Section 112r of the Clean Air Act 1990 Amendments). Naturally occurring hydrocarbon mixtures, prior to entry into a natural gas processing plant or a petroleum refining process unit, including: condensate, crude oil, field gas, and produced water, are exempt for the purpose of determining whether more than a threshold quantity of a regulated substance is present at the stationary source.

Stratospheric Ozone Protection, 40 CFR Part 82 [Not Applicable]

These standards require phase out of Class I & II substances, reductions of emissions of Class I & II substances to the lowest achievable level in all use sectors, and banning use of nonessential products containing ozone-depleting substances (Subparts A & C); control servicing of motor vehicle air conditioners (Subpart B); require Federal agencies to adopt procurement regulations which meet phase out requirements and which maximize the substitution of safe alternatives

to Class I and Class II substances (Subpart D); require warning labels on products made with or containing Class I or II substances (Subpart E); maximize the use of recycling and recovery upon disposal (Subpart F); require producers to identify substitutes for ozone-depleting compounds under the Significant New Alternatives Program (Subpart G); and reduce the emissions of halons (Subpart H).

Subpart A identifies ozone-depleting substances and divides them into two classes. Class I controlled substances are divided into seven groups; the chemicals typically used by the manufacturing industry include carbon tetrachloride (Class I, Group IV) and methyl chloroform (Class I, Group V). A complete phase-out of production of Class I substances is required by January 1, 2000 (January 1, 2002, for methyl chloroform). Class II chemicals, which are hydrochlorofluorocarbons (HCFCs), are generally seen as interim substitutes for Class I CFCs. Class II substances consist of 33 HCFCs. A complete phase-out of Class II substances, scheduled in phases starting by 2002, is required by January 1, 2030. This facility does not utilize any Class I or II substances.

Subpart B outlines the requirements regarding the servicing of motor vehicle air conditions (MVACs) as well as implements section 608 of the Clean Air Act regarding certain servicing, maintenance, repair and disposal of air conditioners in MVACs and MVAC-like appliances. Subpart F requires that any persons servicing, maintaining, or repairing appliances except for motor vehicle air conditioners; persons disposing of appliances, including motor vehicle air conditioners; refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment comply with the standards for recycling and emissions reduction.

Site Area Map

Plot Plan

Process Flow Diagram (PFD)

Production Data