

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
Fowlerton, Mc Mullen County, Texas
PI-7-CERT Registration



30 TAC 106.	352(l)
30 TAC 106.	359
30 TAC 106.	512

TCEQ CN:	CN605746593
TCEQ RN:	RN106501851
Registration No.:	150015

Prepared By:
EnTech Consulting Corp.
21 Waterway Ave., Ste. 300
The Woodlands, Texas 77380



Micheal K. Harris, P.E.
Senior Air Project Manager
(936) 443-5332

Date: 03/11/2024

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Ineos USA Oil & Gas LLC

Corner S Ranch Mcm B Pad

Fowlerton, Mc Mullen County, Texas

PI-7-CERT Registration

1 ADMINISTRATIVE SECTION



Ineos USA Oil & Gas LLC

03/11/2024

Texas Commission on Environmental Quality (TCEQ)
Air Permits Initial Review Team (APIRT)
12100 Park 35 Circle
Mail Code 161; Building C, Third Floor
Austin, Texas 78753

Subject: Ineos USA Oil & Gas LLC
1164 FM 2367, Carrizo Springs, Texas 78834
Corner S Ranch Mcm B Pad
CN: CN605746593
RN: RN106501851
Permit No.: 150015
PI-7-CERT Registration

The Executive Director:

Please find attached the following documents:

- PI-7-CERT Registration for the above referenced facility.

Please call for additional information or further assistance.

Sincerely,

Jase Perry
SHE-R Programs Manager
1164 FM 2367
Carrizo Springs, Texas 78834

Phone No.: 512-917-2685
Email: jase.perry@ineos.com



TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (if other is checked please describe in space provided)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input checked="" type="checkbox"/> Other PI-7-CERT Registration
2. Customer Reference Number (if issued) CN CN605746593	Follow this link to search for CN or RN numbers in Centray Registry	3. Regulated Entity Reference Number (if issued) RN RN106501851

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		03/11/2024	
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
Customer Legal Name (if an individual, print last name first: ex: Doe, John)			If new Customer, enter previous Customer below		
Ineos USA Oil & Gas LLC					
7. TX SOS Filing Number (if applicable) 803300949		8. TX State Franchise Tax ID (11 digits) 32070505428		9. Federal Tax ID (9 digits) UNKNOWN	
10. DUNS Number (if applicable) UNKNOWN					
11. Type of Customer:		<input type="checkbox"/> Corporation <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Limited Partnership <input type="checkbox"/> General <input checked="" type="checkbox"/> Limited			
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?			
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input checked="" type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 +		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
14. Customer Role (Proposed or Actual) - as it relates to the Regulated Entity listed on this form. Please check only one of the following:					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other					
15. Mailing Address		1164 FM 2367			
City		Carrizo Springs		State	Texas
ZIP		78834		ZIP +4	
16. Country Mailing Information (if outside USA)			17. E-Mail Address (if applicable) jase.perry@ineos.com		
18. Telephone Number 512-917-2685		19. Extension or Code		20. Fax Number (if applicable)	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (if "New Regulated Entity" is selected below, this form should be accompanied by a permit application).		
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information		
<i>The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP or LLC)</i>		
22. Regulated Entity Name (name of the site where the regulated action is taking place). Corner S Ranch Mcm B Pad		

TCEQ Core Data Form (continued)

23. Street Address of Regulated Entity: (No P.O.Box)									
		City		State		Zip		Zip + 4	
24. County		Mc Mullen							
		Enter Physical Location if no street address is provided.							
25. Description to Physical Location:		From FM 1582 and Hwy 97 go about 9 mi to oilfield entrance turn L go E for 2.9 mi turn R go S 1 mi turn L go E 1 mi turn R go S for 1 mi turn L and follow fence line E for 9 mi to drilling location							
26. Nearest City Fowlerton		State Texas				Nearest ZIP Code 78021			
27. Latitud (N) In Decimal:		28.585		28. Longitude (W) In Decimal:		-98.706			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds				
28.00	35.00	5.20	-98.00	42.00	23.10				
29. Primary SIC Code		30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
1311				211111					
33. What is the Primary Business of this entity? (Please do not repeat the SIC or NAICS description)									
Oil production well									
34. Mailing Address:		1164 FM 2367							
		City	Carrizo Springs	State	Texas	Zip	78834	Zip + 4	
35. Email Address:		jase.perry@ineos.com							
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)			
512-917-2685									
39. TCEQ Programs and ID Numbers. Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form or the updates may not be made. If your Program is not listed, check other and write it in. See the Core Data Form instructions for additional guidance.									
<input type="checkbox"/>	Dam Safety	<input type="checkbox"/>	Districts	<input type="checkbox"/>	Edwards Aquifer	<input type="checkbox"/>	Industrial Hazardous Waste	<input type="checkbox"/>	Municipal Solid Waste
<input checked="" type="checkbox"/>	New Source Review - Air	<input type="checkbox"/>	OSSF	<input type="checkbox"/>	Petroleum Storage Tank	<input type="checkbox"/>	PWS	<input type="checkbox"/>	Sludge
<input type="checkbox"/>	Stormwater	<input type="checkbox"/>	Title V - Air	<input type="checkbox"/>	Tires	<input type="checkbox"/>	Used Oil	<input type="checkbox"/>	Utilities
<input type="checkbox"/>	Voluntary Cleanup	<input type="checkbox"/>	Waste Water	<input type="checkbox"/>	Wastewater Agriculture	<input type="checkbox"/>	Water Rights	<input type="checkbox"/>	Other:
SECTION IV: Preparer Information									
40. Name:		Jase Perry			41. Title:		SHE-R Programs Manager		
42. Telephone Number		43. Extension or Code		44. Fax Number (if applicable)		45. E-mail Address			
512-917-2685						jase.perry@ineos.com			
SECTION V: Authorized Signature									
46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 9 and/or as required for the updates to the ID numbers identified in field 39. (see the Core Data Form Instructions for more information on who should sign this form.)									
Company:		Ineos USA Oil & Gas LLC			Job Title:		SHE-R Programs Manager		
Name (In Print):		Jase Perry					Phone:	512-917-2685	
Signature:							Date:		



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The TCEQ requires that a complete Core Data Form bearing an original signature be submitted on all incoming applications unless a Regulated Entity and Customer Reference Number have been issued by the TCEQ and no core data information has changed. For more information regarding the Core Data Form, call (512) 239-5175 or go to the TCEQ Web site at www.tceq.texas.gov/permitting/central_registry/guidance.html.

I. REGISTRANT INFORMATION			
A. Company or Other Legal Customer Name: Ineos USA Oil & Gas LLC			
B. Company Official Contact Name: <input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other			
Name: Jase Perry			
Title: SHE-R Programs Manager			
Mailing Address: 1164 FM 2367			
City: Carrizo Springs		State: Texas	Zip Code: 78834
Phone: 512-917-2685		Fax:	
Email: jase.perry@ineos.com			
All PBR registration responses will be sent via e-mail.			
C. Technical Contact Name: <input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other			
Name: Micheal K Harris, P.E.			
Title: Senior Air Project Manager			
Company: EnTech Consulting Corp.			
Mailing Address: 21 Waterway Ave.			
City: The Woodlands		State: Texas	Zip Code: 77380
Phone: 936-443-5332		Fax:	
Email: mike.harris@entechservice.com			
II. FACILITY AND SITE INFORMATION			
A. Name/Type of Facility:			
Facility Name: Corner S Ranch Mcm B Pad			
Type of Facility: Oil production well		<input checked="" type="checkbox"/> Permanent	<input type="checkbox"/> Temporary
For portable units, please provide the serial number of the equipment being authorized below.			
Serial No.:		Serial No.:	
B. Facility Location Information			
Street Address:			
If there is no street address, provide written driving directions to the site and provide the closest city or town, county, and ZIP code for the site (attach description if additional space is needed).			
From FM 1582 and Hwy 97 go about 9 mi to oilfield entrance turn L go E for 2.9 mi turn R go S 1 mi turn L go E 1 mi turn R go S for 1 mi turn L and follow fence line E for 9 mi to drilling location			
City: Fowlerton		County: Mc Mullen	ZIP Code: 78021



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II. FACILITY AND SITE INFORMATION (continued)		
C. TCEQ Core Data Form		
Is the Core Data Form (TCEQ Form Number 10400) attached?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If "NO," provide customer reference number (CN) and regulated entity number (RN) below.		
Customer Reference Number (CN): CN605746593		
Regulatory Entity Number (RN): RN106501851		
D. TCEQ Account Identification Number (if known):		
E. Type of action:	<input type="checkbox"/> Initial Application	<input checked="" type="checkbox"/> Change to Registration
For Change to Registration provide the Registration Number: 150015		
F. PBR numbers(s) claimed under 30 TAC Chapter 106		
§ 106. 352(l)	§ 106.	
§ 106. 359	§ 106.	
§ 106. 512	§ 106.	
G. Historical Standard Exemption or PBR		
Are you claiming an historical standard exemption or PBR?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If "YES," enter rule number(s) and associated effective date in the spaces provided below.		
Rule Number(s)	Effective Date	
H. Previous Standard Exemption or PBR Registration Number		
Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If "YES," enter previous standard exemption number(s) and PBR registration number(s), and associated effective dates in the spaces provided below.		
Standard Exemption and PBR Registration Njumber(s)	Effective Date	Registration Number
106.352(l)	11/22/2012	150015
106.359	09/10/2013	150015
106.492	09/04/2000	150015
106.512	06/13/2001	150015
I. H. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit		
Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If "YES," enter standard exemption number(s), PBR registration number(s), and Standard Permit registration number(s), and associated effective date in the spaces provided below.		
Standard Exemption and PBR Registration Njumber(s)	Effective Date	Registration Number



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II. FACILITY AND SITE INFORMATION (continued)			
J. Other Air Preconstruction Permits			
Are there any other air preconstruction permits at this site?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If "YES," enter permit number(s) in the spaces provided below.			
K. Affected Air Preconstruction Permits			
Does the PBR being claimed directly affect any permitted facility?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If "YES," enter the permit number(s) in the spaces provided below.			
L. Federal Operating Permit (FOP) Requirements (30 TAC Chapter 122 Applicability)			
1. Is this facility located at a site that is required to obtain an FOP pursuant to 30 TAC Chapter 122?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
		<input type="checkbox"/> To Be Determined	
If the site currently has an existing federal operating permit, enter the permit number.			
Check the requirements of 30 TAC Chapter 122 that will be triggered if this certification is accepted (<i>check all that apply</i>).			
<div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Initial Application for an FOP</div><div><input type="checkbox"/> Significant Revision for an SOP</div><div><input type="checkbox"/> Minor Revision for an SOP</div></div>			
<div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Operational Flexibility/off Permit Notification for an SOP</div><div><input type="checkbox"/> Revision for GOP</div></div>			
<div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> To Be Determined</div><div><input checked="" type="checkbox"/> None</div></div>			
2. Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site (<i>check all that apply</i>).			
<div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> SOP</div><div><input type="checkbox"/> GOP</div><div><input type="checkbox"/> GOP application/revision application: Submitted or under APD review.</div></div>			
<div style="display: flex; justify-content: space-between;"><div><input checked="" type="checkbox"/> N/A</div><div><input type="checkbox"/> SOP application/revision application: submitted or under APD review.</div></div>			
III. FEE INFORMATION (See Section VII. for address to send fee or go to www.tceq.texas.gov/epay to pay online.)			
A. Fee Requirements			
Is a fee required per Title 30 TAC § 106.50?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If "NO," specify the exception. There are three exceptions to paying a PBR fee. (<i>check all that apply</i>).			
1. Registration is solely to establish a federally enforceable emission limit.		<input type="checkbox"/> Yes	
2. Registration is within six months of an initial PBR review, and it is addressing deficiencies, administrative changes, or other allowed changes.		<input type="checkbox"/> Yes	
3. Registration is for a remediation project (30 TAC § 106.533).		<input type="checkbox"/> Yes	



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III. FEE INFORMATION (See Section VII. for address to send fee or go to www.tceq.texas.gov/epay to pay online). (continued)			
B. Fee Amount			
1. A \$100 fee is required if any of the answers in III.B.1 are "YES."			
This business have less than 100 employees?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
This business have less than 6 million dollars in annual gross receipts?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
This registration is submitted by a governmental entity with a population of less than 10,000?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
This registration is submitted by a non-profit organization	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
2. A \$450 fee is required for all other registrations			
C. Payment Information			
Check/money order/transaction or voucher number:			
Individual or company name check:			
Fee amount (\$):	\$450.00		
Was fee Paid online?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
IV. Technical Information Including State And Federal Regulatory Requirements			
Place a check next to the appropriate box to indicate what is included in your submittal.			
NOTE: Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in an automatic deficiency and voiding of the project.			
A. PBR requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)			
Did you demonstrate that the general requirements in 30 TAC § 106.4 are met?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
Did you demonstrate that the individual requirements of the specific PBR are met?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
B. Confidential Information (All pages properly marked "CONFIDENTIAL")	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
C. Process Flow Diagram	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
D. Process Description	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
E. Maximum Emissions Data and Calculations	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
Note: If the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under 30 TAC Chapter 101, Subchapter H, Division 3, the owner/operator of these facilities must possess NOx allowances equivalent to the actual NOx, emissions from these facilities.			



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IV. Technical Information Including State And Federal Regulatory Requirements (continued)

Place a check next to the appropriate box to indicate what is included in your submittal.

NOTE: Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in an automatic deficiency and voiding of the project.

F. F. Is this certification being submitted to certify the emissions for the entire site? ☒ Yes ☐ No

If "NO," include a summary of the specific facilities and emissions being certified.

G. Table 1(a) (Form 10153) Emission Point Summary ☒ Yes ☐ No

H. H. Distances from Property Line and Nearest Off-Property Structure

Distance from this facility's emission release point to the nearest property line: 20.000 feet

Distance from this facility's emission release point to the nearest off-property structure: >3,000 feet

I. Project Status

Has the company implemented the project or waiting on a response from TCEQ? ☐ Implemented ☒ Waiting

J. Projected Start of Construction and Projected Start of Operation Dates

Projected Start of Construction (provide date): PENDING

Projected Start of Operation (provide date): PENDING

V. DELINQUENT FEES

This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ is paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ Web site at: www.tceq.texas.gov/agency/delin/index.html.

VI. SIGNATURE FOR CERTIFICATION AND REGISTRATION

The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which this application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7; the Texas Health and Safety Code, Chapter 382, the Texas Clean Air Act (TCAA); the air quality rules of the Texas Commission on Environmental Quality; or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.

Name (printed): Jase Perry SHE-R Programs Manager

Signature (original signature required): _____

Date: _____



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VII. Submitting Copies of the Certification and Registration		
Copies must be sent as listed below:		
Processing delays may occur if copies are not sent as noted.		
Who	Where	What
Air Permits Initial Review Team (APIRT)	Regular, Certified, Priority Mail MC161, P.O. Box 13087 Austin, Texas 78711-3087 Hand Delivery, Overnight Mail MC 161, 12100 Park 35 Circle, Building C, Third Floor Austin, Texas 78753	Originals Form PI-7, Core Data Form and all attachments. Not required if using ePermits ¹
Revenue Section, TCEQ	Regular, Certified, Priority Mail MC 214, P.O. Box 13088 Austin, Texas 78711-3088 Hand Delivery, Overnight Mail MC 214, 12100 Park 35 Circle, Building A, Third Floor Austin, Texas 78753	Original Money Order or Check, Copy of Form PI-7 and Core Data Form Not required if fee was paid using ePay ²
Appropriate TCEQ Regional Office	To find your Regional Office address, go to the TCEQ Web site at www.tceq.texas.gov/publications/gi/gi-002.html , or call (512) 239-1250	Copy of Form PI-7, Core Data Form and all attachments. Not required if using ePermits ¹
Appropriate Local Air Pollution Control Program(s)	To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD Website at www.tceq.texas.gov/permitting/air/local_programs or call (512) 239-1250	Copy of Form PI-7, Core Data Form and all attachments.

¹ ePermits located at www3.tceq.texas.gov/steers/

² ePay located at www.tceq.texas.gov/epay

2 TECHNICAL SECTION

2.1 Introduction

The applicant:	Ineos USA Oil & Gas LLC
Address:	1164 FM 2367 Carrizo Springs, Texas 78834
Phone No.:	512-917-2685
Responsible official:	Jase Perry SHE-R Programs Manager 512-917-2685 jase.perry@ineos.com
Technical contact:	Micheal K Harris, P.E. Senior Air Project Manager 936-443-5332 mike.harris@entechservice.com
The facility:	Corner S Ranch Mcm B Pad
TCEQ CN:	CN605746593
TCEQ RN:	RN106501851
Current registration no(s).:	150015
Registrations claimed in this document:	106.352(l) Description: PI-7-CERT Registration 106.359 106.512
Physical location:	From FM 1582 and Hwy 97 go about 9 mi to oilfield entrance turn L go E for 2.9 mi turn R go S 1 mi turn L go E 1 mi turn R go S for 1 mi turn L and follow fence line E for 9 mi to drilling location
Latitude/Longitude:	28 35 05 N -98 42 23 W
UTM:	Zone: Easting: Northing: 14R 528,720.020 3,162,010.570
Facility type:	Oil production well

2.2 Process Description

This is a sweet production facility, with natural gas H₂S content of 18 ppm, and crude production of 22.5 bbls/d. The following activities occur on-site:

- Inlet separation
- Heater-treater processing
- Product storage (tanks)
- Product flash generation
- Product loading activities
- Blowdown/MSS activities
- Fugitive component emissions
- Other activities/sources: 4 gasoline pump engines.

2.2 Process Description (continued)

A detailed description of all on-site process activities is provided below:

- Inlet separation
 Natural gas is directed to the sales pipeline and crude/liquids are directed to either the heater-treater (if present on-site) for vapor pressure reduction or are sent directly into storage tanks.

- Crude is directed into the heater-treater for vapor pressure reduction/stabilization.

FIN	RATING	OPERATION
HT1	1.000 mmbtu/hr	8,760.00 hrs/yr
HT2	1.000 mmbtu/hr	8,760.00 hrs/yr
HT3	1.000 mmbtu/hr	8,760.00 hrs/yr
HT4	1.000 mmbtu/hr	8,760.00 hrs/yr

- The following product storage tanks exist or are proposed at the facility:

FIN	PRODUCT	SIZE	THROUGHPUT	VENTS TO
TANK1	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK2	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK17	produced water	400.00 bbls ea. in size	2.81 bbls/d-ea.	to air
TANK3	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK4	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK5	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK6	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK7	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK8	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK9	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK10	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK11	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK12	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK13	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK14	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK15	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d-ea.	to air
TANK16	stabilized crude	400.00 bbls ea. in size	1.41 bbls/d	to air
TANK18	produced water	400.00 bbls ea. in size	2.81 bbls/d	to air
TANK19	produced water	400.00 bbls ea. in size	2.81 bbls/d	to air
TANK20	produced water	400.00 bbls ea. in size	2.81 bbls/d	to air

- The following crude/produced-water related flash vapors will be generated at the facility:

FIN	PRODUCT	THROUGHPUT	OPERATING PRESSURE
HT1-FLASH	crude/natural gas	6 bbls/d	flashing from: 110.0 to: 14.27 psig
HT2-FLASH	crude/natural gas	6 bbls/d	flashing from: 110.0 to: 14.27 psig
HT3-FLASH	crude/natural gas	6 bbls/d	flashing from: 110.0 to: 14.27 psig
HT4-FLASH	crude/natural gas	6 bbls/d	flashing from: 110.0 to: 14.27 psig

- The following activities occur at the facility:

FIN	PRODUCT	THROUGHPUT	LOADING TYPE	CONTROL TYPE
C LOAD 1	stabilized crude	22.50 bbls/d	submerged loading	to air
PW LOAD 1	produced water	11.25 bbls/d	submerged loading	to air

- The following fugitive component emissions will occur at the facility:

FIN	DESCRIPTION
FUG	light-liquid components
FUG	natural gas components

- The following blowdowns/MSS activities will occur at the facility:

FIN	DESCRIPTION	THROUGHPUT	VENTS TO
MSS 1	natural gas	0.00750 mmscf/yr	to atmosphere
MSS 2	natural gas	0.00562 mmscf/yr	to atmosphere
MSS 3	blasting/coating vapors	0.11520 mmscf/yr	to atmosphere
VENTING 1	natural gas	0.00493 mmscf/yr	to atmosphere

- Other activities/sources: 4 gasoline pump engines.

FIN	MAKE	MODEL	HP RATING	CONTROL	DESCRIPTION
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Corner S Ranch Mcm B Pad
 Fowlerton, Mc Mullen County, Texas
 PI-7-CERT Registration

2.2 Process Description (continued)

ENG3	HONDA	GX160	4.8	none	gasoline fired pump engine; 106.512; un-modified
ENG4	HONDA	GX160	4.8	none	gasoline fired pump engine; 106.512; un-modified
ENG5	HONDA	GX160	4.8	none	gasoline fired pump engine; 106.512; un-modified
ENG6	HONDA	GX160	4.8	none	gasoline fired pump engine; 106.512; un-modified

2.2 Process Description (continued)

Table 2.2.1 provides a list/description and operating parameters of emission sources at the facility. Table 2.2.2 provides FIN descriptions.

Table 2.2.3 provides a summary of revisions associated with this submittal. Figure 2.2.1 provides a simplified process description.

This registration is submitted to certify emissions from all on-site sources. The following is a brief process description for this site.

Crude, produced water and natural gas from the wellheads pass through on-site separation. Natural gas is then directed to the sales pipeline, and liquids are directed to the heater-treaters for further vapor- pressure reduction. The heater-treaters vent flash vapors to atmosphere. From the heater-treaters, crude and produced water are directed into the on-site storage tanks. The storage tank working/breathing vapors are vented to atmosphere. Crude and produced water are periodically trucked off-site to sales/disposal. The trucks are in dedicated normal service.

The following MSS activities will occur at this facility (authorized under 30 TAC 106.359):

- EPNs MSS-01, blowdown activities during equipment maintenance; vented to atmosphere;
- EPN MSS-02, tank de-gassing operations; and,
- EPN MSS-03, periodic maintenance blasting/painting of equipment.

TABLE 2.2.1 (SOURCE OPERATING DATA)

SOURCE DESCRIPTION		OPERATING PARAMETERS										SOURCE CONTROLS		DESCRIPTIONS/COMMENTS		
FIN / EPN	TYPE	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	CONTROLS	CONTROLS			
COMBUSTION CONTROL DEVICES		CONTROL EFF.		HEAT INPUT		WASTE VAPOR FLOW		OPERATING TIME				PRIMARY CONTROL	SECONDARY CONTROL	WASTE VAPORS CONTROLLED		
FLARE1 / FLARE1	COMBUSTOR		DRE		MMBTU/HR		ACFM		HRS/YR					REMOVED FROM SERVICE		
ENGINES (COMPRESSION IGNITED)		RATING		RUN-TIME		FUEL USEAGE						PRIMARY CONTROL	SECONDARY CONTROL	MAKE	MODEL	USAGE
ENG3 / ENG3	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	4.800	BHP	8,760.000	HRS/YR	0.255	GAL/HR	267.435	G/HP-HR	6.600	G/HP-HR	4S-RB	NONE	HONDA	GX160	PUMP
ENG4 / ENG4	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	4.800	BHP	8,760.000	HRS/YR	0.255	GAL/HR	267.435	G/HP-HR	6.600	G/HP-HR	4S-RB	NONE	HONDA	GX160	
ENG5 / ENG5	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	4.800	BHP	8,760.000	HRS/YR	0.255	GAL/HR					4S-RB	NONE	HONDA	GX160	
ENG6 / ENG6	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	4.800	BHP	8,760.000	HRS/YR	0.255	GAL/HR					4S-RB	NONE	HONDA	GX160	
BOILERS/HEATERS		RATING		RUN-TIME		NOX		CO		VOC		PRIMARY CONTROL	SECONDARY CONTROL	MAKE	MODEL	
HT1 / HT1	BOILERS (<100 MMBTU/HR)	1.000	MMBTU/HR	8,760.000	HRS/YR	129.216	LBS/MMSCF	108.541	LBS/MMSCF	7.107	LBS/MMSCF	UNCONTROLLED		UNKNOWN	UNKNOWN	
HT2 / HT2	BOILERS (<100 MMBTU/HR)	1.000	MMBTU/HR	8,760.000	HRS/YR	129.216	LBS/MMSCF	108.541	LBS/MMSCF	7.107	LBS/MMSCF	UNCONTROLLED		UNKNOWN	UNKNOWN	
HT3 / HT3	BOILERS (<100 MMBTU/HR)	1.000	MMBTU/HR	8,760.000	HRS/YR	129.216	LBS/MMSCF	108.541	LBS/MMSCF	7.107	LBS/MMSCF	UNCONTROLLED		UNKNOWN	UNKNOWN	
HT4 / HT4	BOILERS (<100 MMBTU/HR)	1.000	MMBTU/HR	8,760.000	HRS/YR	129.216	LBS/MMSCF	108.541	LBS/MMSCF	7.107	LBS/MMSCF	UNCONTROLLED		UNKNOWN	UNKNOWN	
TANKS		SIZE		TYPE		THROUGHPUT		VOC CONTENT		VOC THROUGHPUT		PRIMARY CONTROL	SECONDARY CONTROL	CONTENTS		
TANK1 / TANK1	STORAGE TANKS	400.000	BBLS/EA.	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK2 / TANK2	STORAGE TANKS	400.000	BBLS/EA.	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK17 / TANK17	STORAGE TANKS	400.000	BBLS/EA.	VFR		2.813	BBLS/D-EA.	1.00%	%	0.028	BBLS/D	TO AIR	TO AIR	PRODUCED WATER		
TANK3 / TANK3	STORAGE TANKS	400.000	BBLS/EA.	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK4 / TANK4	STORAGE TANKS	400.000	BBLS/EA.	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK5 / TANK5	STORAGE TANKS	400.000	BBLS/EA.	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK6 / TANK6	STORAGE TANKS	400.000	BBLS/EA.	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK7 / TANK7	STORAGE TANKS	400.000	BBLS/EA.	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK8 / TANK8	STORAGE TANKS	400.000	BBLS/EA.	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK9 / TANK9	STORAGE TANKS	400.000	BBLS/EA.	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK10 / TANK10	STORAGE TANKS	400.000	BBLS/EA.	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK11 / TANK11	STORAGE TANKS	400.000	BBLS	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK12 / TANK12	STORAGE TANKS	400.000	BBLS	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK13 / TANK13	STORAGE TANKS	400.000	BBLS	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK14 / TANK14	STORAGE TANKS	400.000	BBLS	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK15 / TANK15	STORAGE TANKS	400.000	BBLS	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		
TANK16 / TANK16	STORAGE TANKS	400.000	BBLS	VFR		1.406	BBLS/D-EA.	100.00%	%	1.406	BBLS/D	TO AIR	TO AIR	STABILIZED CRUDE		

COMPANY: Ineos USA Oil & Gas LLC
 SITE NAME: Corner S Ranch Mcm B Pad
 DESCRIPTION: PI-7-CERT Registration
 DATE: 03/11/24

TABLE 2.2.1 (SOURCE OPERATING DATA)

SOURCE DESCRIPTION		OPERATING PARAMETERS										SOURCE CONTROLS		DESCRIPTIONS/C OMMENTS	
FIN / EPN	TYPE	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	CONTROLS	CONTROLS		
TANK18 / TANK18	STORAGE TANKS	400.000	BBLS	VFR		2.813	BBLS/D-EA.	1.00%	%	0.028	BBLS/D	TO AIR	TO AIR	PRODUCED WATER	
TANK19 / TANK19	STORAGE TANKS	400.000	BBLS	VFR		2.813	BBLS/D-EA.	1.00%	%	0.028	BBLS/D	TO AIR	TO AIR	PRODUCED WATER	
TANK20 / TANK20	STORAGE TANKS	400.000	BBLS	VFR		2.813	BBLS/D-EA.	1.00%	%	0.028	BBLS/D	TO AIR	TO AIR	PRODUCED WATER	
LOADING		THROUGHPUT		VOC CONTENT		VOC THROUGHPUT						PRIMARY CONTROL	SECONDARY CONTROL	LIQUIDS LOADED	LOADING TYPE
C LOAD 1 / C LOAD 1	LOADING	22.500	BBLS/D	100.00%	%	22.500	BBLS/D					TO AIR	TO AIR	STABILIZED CRUDE	SUBMERGED
PW LOAD 1 / PW LOAD 1	LOADING	11.250	BBLS/D	1.00%	%	0.113	BBLS/D					TO AIR	TO AIR	PRODUCED WATER	SUBMERGED
FLASH		THROUGHPUT		VOC CONTENT		VOC THROUGHPUT		PSIG RANGE		GOR		PRIMARY CONTROL	SECONDARY CONTROL	LIQUID	
HT1-FLASH / HT1-FLASH	FLASH	5.653	BBLS/D	100.00%	%	5.653	BBLS/D	110 - 14.27	PSIG		SCF/BBL	TO ATMOSPHERE	TO ATMOSPHERE	CRUDE/NATURAL GAS	
HT2-FLASH / HT2-FLASH	FLASH	5.653	BBLS/D	100.00%	%	5.653	BBLS/D	110 - 14.27	PSIG		SCF/BBL	TO ATMOSPHERE	TO ATMOSPHERE	CRUDE/NATURAL GAS	
HT3-FLASH / HT3-FLASH	FLASH	5.653	BBLS/D	100.00%	%	5.653	BBLS/D	110 - 14.27	PSIG		SCF/BBL	TO ATMOSPHERE	TO ATMOSPHERE	CRUDE/NATURAL GAS	
HT4-FLASH / HT4-FLASH	FLASH	5.653	BBLS/D	100.00%	%	5.653	BBLS/D	110 - 14.27	PSIG		SCF/BBL	TO ATMOSPHERE	TO ATMOSPHERE	CRUDE/NATURAL GAS	
/	FLASH		BBLS/D		%		BBLS/D	0 - 0	PSIG		SCF/BBL				
/	FLASH		BBLS/D		%		BBLS/D	0 - 0	PSIG		SCF/BBL				
FUGITIVE COMPONENTS		OPERATING TIME		EMISSIONS (VOC)		EMISSIONS (VOC)						PRIMARY CONTROL	SECONDARY CONTROL		
FUG / FUG	FUGITIVES	8,760.000	HRS/YR	1.701	PPH	7.449	TPY							SITE FUGITIVE EMISSIONS; 106.352(l)	
MSS ACTIVITIES/BLOWDOWNS		OPERATING TIME		RATE		RATE		EMISSIONS (VOC)		HEAT CONTENT		PRIMARY CONTROL	SECONDARY CONTROL	VAPOR DESCRIPTION	
MSS 1 / MSS 1	BLOW DOWNS	300.000	HRS/YR	25.000	SCF/HR	0.008	MMSCF/YR	0.074	PPH	1,318.000	BTU/SCF	TO ATMOSPHERE	TO ATMOSPHERE	MSS ACTIVITY; VAPORS VENTED TO ATMOSPHERE DURING MSS ACTIVITIES; 106.359	
MSS 2 / MSS 2	BLOW DOWNS	1.000	HRS/YR	5,620.000	SCF/HR	0.006	MMSCF/YR	16.658	PPH	1,318.000	BTU/SCF	TO ATMOSPHERE	TO ATMOSPHERE	MSS ACTIVITY; STORAGE TANK DE-GASSING DURING MAINTENANCE ACTIVITY; ASSUME DE-GASSING 1 TANK/YEAR; VENTS TO ATMOSPHERE; 106.359	
MSS 3 / MSS 3	BLOW DOWNS	96.000	HRS/YR	1,200.000	SCF/HR	0.115	MMSCF/YR	2.989	PPH	3,071.000	BTU/SCF	TO ATMOSPHERE	TO ATMOSPHERE	MSS ACTIVITIES; MISC. ABRASIVE BLASTING/COATING ACTIVITIES; VENTS TO ATMOSPHERE; AREA SOURCE; 106.359	
VENTING 1 / VENTING 1	BLOW DOWNS	2,190.000	HRS/YR	2.250	SCF/HR	0.005	MMSCF/YR	0.007	PPH	1,318.000	BTU/SCF	TO ATMOSPHERE	TO ATMOSPHERE	NATURAL GAS	

COMPANY: Ineos USA Oil & Gas LLC
 SITE NAME: Corner S Ranch Mcm B Pad
 DESCRIPTION: PI-7-CERT Registration
 DATE: 03/11/24

TABLE 2.2.2 (SOURCE DESCRIPTIONS)

SOURCE DESCRIPTION				
FIN / EPN	EPN	TYPE		
COMBUSTION CONTROL DEVICES				
FLARE1	FLARE1	COMBUSTOR	REMOVED FROM SERVICE	
ENGINES (COMPRESSION IGNITED)			MAKE	MODEL
ENG3	ENG3	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	HONDA	GX160
ENG4	ENG4	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	HONDA	GX160
ENG5	ENG5	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	HONDA	GX160
ENG6	ENG6	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	HONDA	GX160
BOILERS/HEATERS			MAKE	MODEL
HT1	HT1	BOILERS (<100 MMBTU/HR)	UNKNOWN	UNKNOWN
HT2	HT2	BOILERS (<100 MMBTU/HR)	UNKNOWN	UNKNOWN
HT3	HT3	BOILERS (<100 MMBTU/HR)	UNKNOWN	UNKNOWN
HT4	HT4	BOILERS (<100 MMBTU/HR)	UNKNOWN	UNKNOWN
TANKS			CONTENTS	
TANK1	TANK1	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	

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COMPANY:	Ineos USA Oil & Gas LLC
SITE NAME:	Corner S Ranch Mcm B Pad
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DATE:	03/11/24

TABLE 2.2.2 (SOURCE DESCRIPTIONS)

SOURCE DESCRIPTION			DESCRIPTIONS/COMMENTS
FIN / EPN	EPN	TYPE	
TANK2	TANK2	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK17	TANK17	STORAGE TANKS	PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK3	TANK3	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK4	TANK4	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK5	TANK5	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK6	TANK6	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK7	TANK7	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK8	TANK8	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK9	TANK9	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK10	TANK10	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK11	TANK11	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK12	TANK12	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK13	TANK13	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK14	TANK14	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)

COMPANY:	Ineos USA Oil & Gas LLC
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TABLE 2.2.2 (SOURCE DESCRIPTIONS)

SOURCE DESCRIPTION			DESCRIPTIONS/COMMENTS	
FIN / EPN	EPN	TYPE		
TANK15	TANK15	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	
TANK16	TANK16	STORAGE TANKS	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	
TANK18	TANK18	STORAGE TANKS	PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	
TANK19	TANK19	STORAGE TANKS	PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	
TANK20	TANK20	STORAGE TANKS	PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	
LOADING			LIQUIDS LOADED	
C LOAD 1	C LOAD 1	LOADING	CRUDE LOADING; VENTING TO ATMOSPHERE; 106.352(L)	
PW LOAD 1	PW LOAD 1	LOADING	PRODUCED WATER LOADING; ASSUMED 1% CRUDE BY VOLUME; VENTING TO ATMOSPHERE; 106.352(L)	
FLASH			LIQUID	COMMENTS
HT1-FLASH	HT1-FLASH	FLASH	CRUDE/NATURAL GAS	HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)
HT2-FLASH	HT2-FLASH	FLASH	CRUDE/NATURAL GAS	HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)
HT3-FLASH	HT3-FLASH	FLASH	CRUDE/NATURAL GAS	HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)
HT4-FLASH	HT4-FLASH	FLASH	CRUDE/NATURAL GAS	HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)
		FLASH		21

COMPANY: Ineos USA Oil & Gas LLC
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TABLE 2.2.2 (SOURCE DESCRIPTIONS)

SOURCE DESCRIPTION			DESCRIPTIONS/COMMENTS	
FIN / EPN	EPN	TYPE		
		FLASH		
FUGITIVE COMPONENTS				
FUG	FUG	FUGITIVES	SITE FUGITIVE EMISSIONS; 106.352(l)	
MSS ACTIVITIES/BLOWDOWNS				
MSS 1	MSS 1	BLOW DOWNS	MSS ACTIVITY; VAPORS VENTED TO ATMOSPHERE DURING MSS ACTIVITIES; 106.359	
MSS 2	MSS 2	BLOW DOWNS	MSS ACTIVITY; STORAGE TANK DE-GASSING DURING MAINTENANCE ACTIVITY; ASSUME DE-GASSING 1 TANK/YEAR; VENTS TO ATMOSPHERE; 106.359	
MSS 3	MSS 3	BLOW DOWNS	MSS ACTIVITIES; MISC. ABRASIVE BLASTING/COATING ACTIVITIES; VENTS TO ATMOSPHERE; AREA SOURCE; 106.359	
VENTING 1	VENTING 1	BLOW DOWNS	PNEUMATIC DEVICE; VENTING TO ATMOSPHERE; 106.352(l)	

TABLE 2.2.3 (PERMIT REVISIONS)

FIN	EPN	REVISIONS
FLARE1	FLARE1	REMOVED FROM SERVICE
HT1	HT1	LOWER HEATER-TREATER EMISSIONS, DUE TO LOWER PRODUCTION/DEPLETION; HEAT INPUT RATING INCREASED TO 1.0 MMBTU/HR; VENTING TO ATMOSPHERE; REVISED FUEL COMPOSITION/HEAT INPUT; UPDATED EMISSION FACTORS DUE TO UPDATED FUEL HEAT CONTENT; 106.352(l).
HT2	HT2	LOWER HEATER-TREATER EMISSIONS, DUE TO LOWER PRODUCTION/DEPLETION; HEAT INPUT RATING INCREASED TO 1.0 MMBTU/HR; VENTING TO ATMOSPHERE; REVISED FUEL COMPOSITION/HEAT INPUT; UPDATED EMISSION FACTORS DUE TO UPDATED FUEL HEAT CONTENT; 106.352(l).
HT3	HT3	LOWER HEATER-TREATER EMISSIONS, DUE TO LOWER PRODUCTION/DEPLETION; HEAT INPUT RATING INCREASED TO 1.0 MMBTU/HR; VENTING TO ATMOSPHERE; REVISED FUEL COMPOSITION/HEAT INPUT; UPDATED EMISSION FACTORS DUE TO UPDATED FUEL HEAT CONTENT; 106.352(l).
HT4	HT4	LOWER HEATER-TREATER EMISSIONS, DUE TO LOWER PRODUCTION/DEPLETION; HEAT INPUT RATING INCREASED TO 1.0 MMBTU/HR; VENTING TO ATMOSPHERE; REVISED FUEL COMPOSITION/HEAT INPUT; UPDATED EMISSION FACTORS DUE TO UPDATED FUEL HEAT CONTENT; 106.352(l).
TANK1	TANK1	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK2	TANK2	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK17	TANK17	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK3	TANK3	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK4	TANK4	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK5	TANK5	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK6	TANK6	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK7	TANK7	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK8	TANK8	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK9	TANK9	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK10	TANK10	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK11	TANK11	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK12	TANK12	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK13	TANK13	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.

TABLE 2.2.3 (PERMIT REVISIONS)

FIN	EPN	REVISIONS
TANK14	TANK14	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK15	TANK15	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK16	TANK16	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK18	TANK18	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK19	TANK19	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
TANK20	TANK20	LOWER EMISSIONS DUE TO REVISED PRODUCTION/DEPLETION; VENTING TO ATMOSPHERE; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION; VOC CONTENT CONSERVATIVELY ASSUMED AT 75 WT%.
C LOAD 1	C LOAD 1	MODIFIED EMISSIONS DUE TO LOWER PRODUCTION/DEPLETION; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION.
PW LOAD 1	PW LOAD 1	MODIFIED EMISSIONS DUE TO LOWER PRODUCTION/DEPLETION; REVISED/LOWERED PRODUCTION; REVISED VAPOR SPECIATION.
HT1-FLASH	HT1-FLASH	NEW SOURCE; HEATER-TREATER CRUDE FLASH VAPORS; FLASH VAPOR VENTING TO ATMOSPHERE.
HT2-FLASH	HT2-FLASH	NEW SOURCE; HEATER-TREATER CRUDE FLASH VAPORS; FLASH VAPOR VENTING TO ATMOSPHERE.
HT3-FLASH	HT3-FLASH	NEW SOURCE; HEATER-TREATER CRUDE FLASH VAPORS; FLASH VAPOR VENTING TO ATMOSPHERE.
HT4-FLASH	HT4-FLASH	NEW SOURCE; HEATER-TREATER CRUDE FLASH VAPORS; FLASH VAPOR VENTING TO ATMOSPHERE.
FUG	FUG	UPDATED COMPONENT COUNT/VAPOR ANALYSIS.
MSS 1	MSS 1	EPN MSS-1 REPLACES EPN MSS; REVISED VAPOR COMPOSITION/REVISED BLOWDOWN RATE/REVISED DURATION.
MSS 2	MSS 2	NEW SOURCE
MSS 3	MSS 3	NEW SOURCE
VENTING 1	VENTING 1	NEW SOURCE
ENG3	ENG3	NO REVISIONS/MODIFICATIONS
ENG4	ENG4	NO REVISIONS/MODIFICATIONS

TABLE 2.2.3 (PERMIT REVISIONS)

FIN	EPN	REVISIONS
ENG5	ENG5	NO REVISIONS/MODIFICATIONS
ENG6	ENG6	NO REVISIONS/MODIFICATIONS

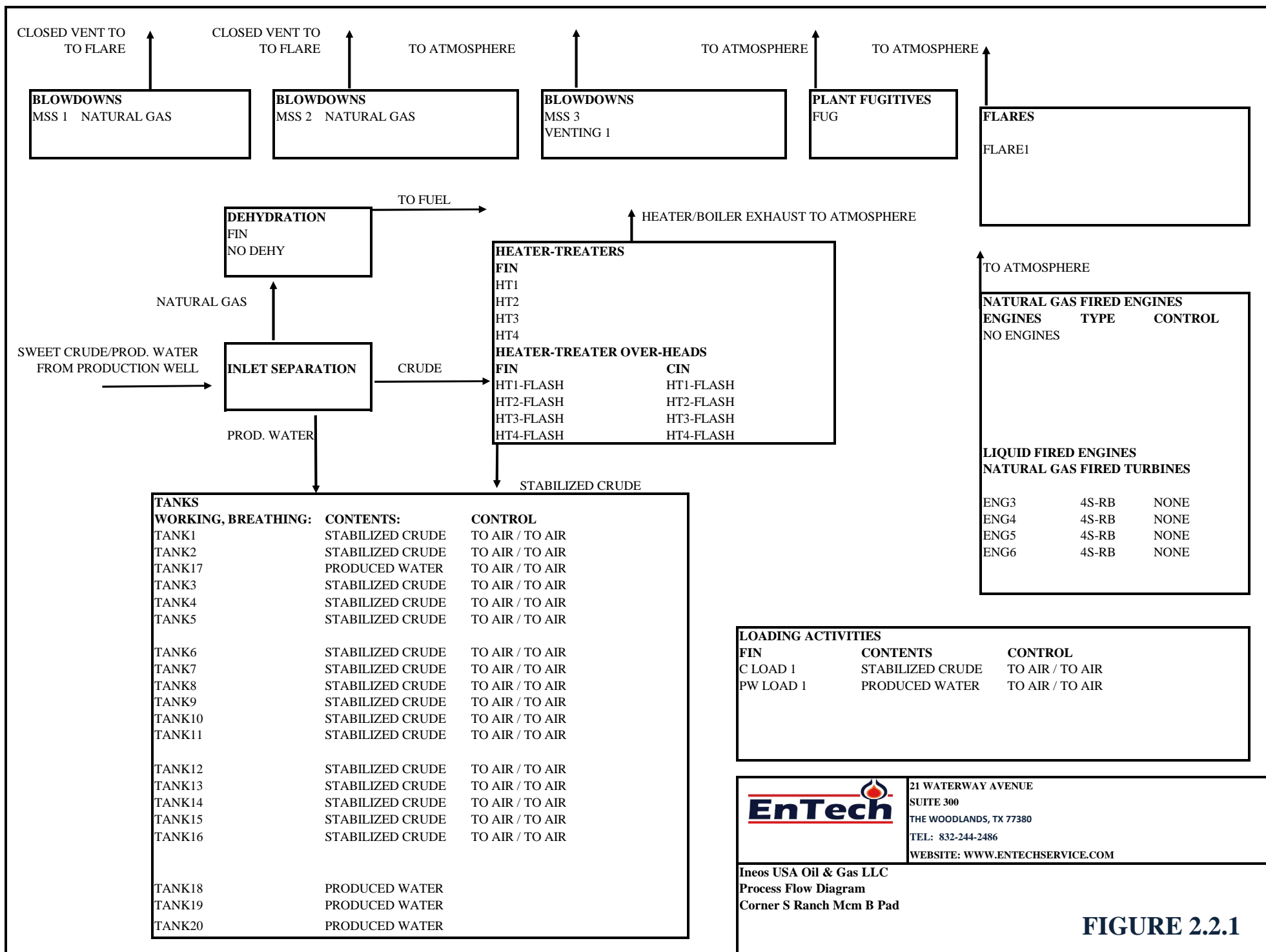


FIGURE 2.2.1

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
Fowlerton, Mc Mullen County, Texas
PI-7-CERT Registration

2.3 Emissions Summary (MAERT)

MAERT

POTENTIAL TO EMIT (PTE)																			
EMISSION SOURCE		VOC		NOX		CO		PM10		PM 2.5		SO2		H2S		BENZENE		TOTAL HAP	
FIN	EPN	PPH	TPY	PPH	TPY	PPH	TPY	PPH	TPY	PPH	TPY	PPH	TPY	PPH	TPY	PPH	TPY	PPH	TPY
FLARE1	FLARE1																		
HT1	HT1	0.005	0.024	0.098	0.429	0.082	0.361	0.007	0.033	0.007	0.033	0.001	0.003	0.000	0.000	0.000	0.000	0.002	0.008
HT2	HT2	0.005	0.024	0.098	0.429	0.082	0.361	0.007	0.033	0.007	0.033	0.001	0.003	0.000	0.000	0.000	0.000	0.002	0.008
HT3	HT3	0.005	0.024	0.098	0.429	0.082	0.361	0.007	0.033	0.007	0.033	0.001	0.003	0.000	0.000	0.000	0.000	0.002	0.008
HT4	HT4	0.005	0.024	0.098	0.429	0.082	0.361	0.007	0.033	0.007	0.033	0.001	0.003	0.000	0.000	0.000	0.000	0.002	0.008
TANK1	TANK1	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK2	TANK2	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK17	TANK17	0.054	0.234											0.000	0.000	0.000	0.001	0.001	0.006
TANK3	TANK3	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK4	TANK4	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK5	TANK5	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK6	TANK6	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK7	TANK7	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK8	TANK8	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK9	TANK9	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK10	TANK10	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK11	TANK11	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK12	TANK12	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK13	TANK13	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK14	TANK14	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK15	TANK15	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK16	TANK16	0.042	0.184											0.000	0.000	0.000	0.000	0.001	0.005
TANK18	TANK18	0.054	0.234											0.000	0.000	0.000	0.001	0.001	0.006
TANK19	TANK19	0.054	0.234											0.000	0.000	0.000	0.001	0.001	0.006
TANK20	TANK20	0.054	0.234											0.000	0.000	0.000	0.001	0.001	0.006
C LOAD 1	C LOAD 1	34.272	0.782											0.000	0.000	0.001	0.000	0.012	0.000
PW LOAD 1	PW LOAD 1	0.343	0.004											0.000	0.000	0.000	0.000	0.000	0.000
HT1-FLASH	HT1-FLASH	0.645	2.824											0.000	0.002	0.002	0.007	0.016	0.072
HT2-FLASH	HT2-FLASH	0.645	2.824											0.000	0.002	0.002	0.007	0.016	0.072
HT3-FLASH	HT3-FLASH	0.645	2.824											0.000	0.002	0.002	0.007	0.016	0.072
HT4-FLASH	HT4-FLASH	0.645	2.824											0.000	0.002	0.002	0.007	0.016	0.072
FUG	FUG	1.701	7.449											0.000	0.000	0.000	0.000	0.001	0.003
MSS 1	MSS 1	0.074	0.011											0.000	0.000	0.000	0.000	0.002	0.000
MSS 2	MSS 2	16.658	0.008											0.000	0.000	0.039	0.000	0.426	0.000
MSS 3	MSS 3	2.989	0.143					0.062	0.003	0.062	0.003			0.000	0.000	0.467	0.022	2.335	0.112
VENTING 1	VENTING 1	0.007	0.007											0.000	0.000	0.000	0.000	0.000	0.000
ENG3	ENG3	0.070	0.306	0.070	0.307	2.830	12.395	0.003	0.015			0.003	0.012	0.000	0.000	0.000	0.000	0.020	0.088
ENG4	ENG4	0.070	0.306	0.070	0.307	2.830	12.395	0.003	0.015			0.003	0.012	0.000	0.000	0.000	0.000	0.020	0.088
ENG5	ENG5	0.070	0.306	0.070	0.307	2.830	12.395	0.003	0.015			0.003	0.012	0.000	0.000	0.000	0.000	0.020	0.088
ENG6	ENG6	0.070	0.306	0.070	0.307	2.830	12.395	0.003	0.015			0.003	0.012	0.000	0.000	0.000	0.000	0.020	0.088
TOTAL EMISSIONS (TPY):		59.808	24.895	0.672	2.944	11.649	51.024	0.106	0.192	0.092	0.134	0.014	0.060	0.002	0.008	0.515	0.059	2.952	0.888
MAXIMUM OPERATING SCHEDULE:		HOURS/DAY:			24.00	DAYS/WEEK:		7.00	WEEKS/YR:		52.00	HOURS/YR		8,760.00					
TOTAL EMISSIONS:	ALL STORAGE TANKS		3.876	FOR OOOOa & OOOOb APPLICABILITY															

2.4 Emission Calculations

Emission calculations have been provided based on the following (if located on-site; and, as applicable):

- Boiler emissions were calculated using factors provided in the EPA publication AP-42, Compilation of Air Pollution Emission Factors;
- Tank emissions were calculated using factors provided in the EPA publications AP-42, Compilation of Air Pollution Emission Factors; and, the formulas presented in Section 7;
- Loading fugitive emissions were calculated using factors provided in the EPA publication AP-42, Compilation of Air Pollution Emission Factors;
- Crude flash emissions were calculated using the laboratory data.
The crude properties used for this application were selected from the site with the highest emissions potential within the same geographical area of this site;
- Produced water flash emissions were calculated assuming 1% crude by volume, using the above referenced crude properties;
- Plant fugitive emissions were calculated using factors provided in the EPA publication API Publication No. 4615, Emission Factors For Oil And Gas Production Operations;
- Engine emissions (if applicable/included) were calculated using factors provided in the EPA publication AP-42, Compilation of Air Pollution Emission Factors; and/or, manufacturer factors.
- Flare emissions (if applicable/included) were calculated using factors provided in the TCEQ "Air Permit Technical Guidance for Chemical Sources, Flares and Vapor Oxidizers".
- Dehydration plant emissions (if applicable/included) were calculated using GRI-GLYCalc software and inlet natural gas flow rate/vapor speciation.
- Amine plant emissions (if applicable/included) were calculated using AMINE-Calc software and inlet natural gas flow rate/vapor speciation.

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PL-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Fuel Gas 1

FUEL VAPOR PROPERTIES			
ITEM	UNITS	VALUE	
HEAT CONTENT	BTU/SCF	1,318.000	
MOLECULAR WT.	LBS/LB-MOLE	40.242	
CRITERIA POLLUTANTS		MOLE %	WT %
WT. % COMPOSITION			
NOx	%		
CO	%		
SO2	%		
PM10	%		
PM2.5	%		
H2S	%	0.0018%	0.003%
VOC	%	10.689%	25.611%
HAP POLLUTANTS			
BENZENE	%	0.017%	0.060%
ETHYLBENZENE	%	0.001%	0.005%
FORMALDEHYDE	%		
HEXANE-N	%	0.131%	0.509%
METHANOL	%		
TOLUENE	%	0.014%	0.058%
XYLENE-M	%	0.005%	0.024%
XYLENE-O	%		
XYLENE-P	%		
	%		
	%		
	%		
VOC(HAP)-u	%		
GHG POLLUTANTS			
METHANE	%	74.756%	54.111%
CO2	%	0.864%	1.716%
N2O	%		
	%		
	%		
TOTAL	%	100.000%	100.000%

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PL-7-CERT Registration

DATE:3/11/2024

WORKSHEET:BOILERS/HEATERS 1 (<100 MMBTU/HR)

SOURCE DESCRIPTION		
FIN	EPN	DESCRIPTION
HT1	HT1	HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)
HT2	HT2	HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)
HT3	HT3	HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)
HT4	HT4	HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)

SOURCE OPERATING PARAMETERS					
FIN	EPN	MAKE	MODEL	CONTROL TYPE	FUEL TYPE
HT1	HT1	UNKNOWN	UNKNOWN	UNCONTROLLED	NATURAL GAS
HT2	HT2	UNKNOWN	UNKNOWN	UNCONTROLLED	NATURAL GAS
HT3	HT3	UNKNOWN	UNKNOWN	UNCONTROLLED	NATURAL GAS
HT4	HT4	UNKNOWN	UNKNOWN	UNCONTROLLED	NATURAL GAS

SOURCE OPERATING PARAMETERS									
FIN	EPN	RUN-TIME HRS/YR	HEAT INPUT MMBTU/HR	EXH. TEMP DEG. F	EXH. VEL. FPS	FUEL MMSCF/HR	FUEL MMSCF/YR	FUEL MMBTU/YR	
HT1	HT1	8,760.0	1,000	850.0	8.94	0.001	6.646	8,760.000	
HT2	HT2	8,760.0	1,000	850.0	8.94	0.001	6.646	8,760.000	
HT3	HT3	8,760.0	1,000	850.0	8.94	0.001	6.646	8,760.000	
HT4	HT4	8,760.0	1,000	850.0	8.94	0.001	6.646	8,760.000	

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	STACK DIA. FT.	STACK HT. FT.			
HT1	HT1	14R	528,720.0	3,162,010.6	1.000	20.000			
HT2	HT2	14R	528,720.0	3,162,010.6	1.000	20.000			
HT3	HT3	14R	528,720.0	3,162,010.6	1.000	20.000			
HT4	HT4	14R	528,720.0	3,162,010.6	1.000	20.000			

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:BOILERS/HEATERS 1 (<100 MMBTU/HR)

EMISSION FACTORS	UNITS	TOTAL	HT1	HT2	HT3	HT4		
NOx	LBS/MMSCF		129.216	129.216	129.216	129.216		
CO	LBS/MMSCF		108.541	108.541	108.541	108.541		
SO2	LBS/MMSCF		0.778	0.778	0.778	0.778		
PM10	LBS/MMSCF		9.820	9.820	9.820	9.820		
PM2.5	LBS/MMSCF		9.820	9.820	9.820	9.820		
Pb	LBS/MMSCF		0.001	0.001	0.001	0.001		
VOC	LBS/MMSCF		7.107	7.107	7.107	7.107		
HAP POLLUTANTS								
BENZENE	LBS/MMSCF		0.003	0.003	0.003	0.003		
ETHYLBENZENE	LBS/MMSCF							
FORMALDEHYDE	LBS/MMSCF		0.097	0.097	0.097	0.097		
HEXANE-N	LBS/MMSCF		2.326	2.326	2.326	2.326		
METHANOL	LBS/MMSCF							
TOLUENE	LBS/MMSCF		0.004	0.004	0.004	0.004		
XYLENE-M	LBS/MMSCF							
XYLENE-O	LBS/MMSCF		0.001	0.001	0.001	0.001		
XYLENE-P	LBS/MMSCF							
	LBS/MMSCF							
	LBS/MMSCF							
H2S (CALCULATED)	LBS/MMSCF		0.000	0.000	0.000	0.000		
VOC(HAP)-u	LBS/MMSCF							
GHG POLLUTANTS								
METHANE	LBS/MMSCF		2.972	2.972	2.972	2.972		
CO2	LBS/MMSCF		155,058.824	155,058.824	155,058.824	155,058.824		
N2O	LBS/MMSCF		2.843	2.843	2.843	2.843		
	LBS/MMSCF							
	LBS/MMSCF							

NOTES:

1. AP-42 EMISSION FACTORS ADJUSTED FOR FUEL/VAPOR HEAT CONTENT.

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:BOILERS/HEATERS 1 (<100 MMBTU/HR)

EMISSIONS TO ATMOSPHERE								
EMISSIONS	UNITS	TOTAL	HT1	HT2	HT3	HT4		
NOx	PPH	0.392	0.098	0.098	0.098	0.098		
CO	PPH	0.329	0.082	0.082	0.082	0.082		
SO2	PPH	0.002	0.001	0.001	0.001	0.001		
PM10	PPH	0.030	0.007	0.007	0.007	0.007		
PM2.5	PPH	0.030	0.007	0.007	0.007	0.007		
Pb	PPH	0.000	0.000	0.000	0.000	0.000		
VOC	PPH	0.022	0.005	0.005	0.005	0.005		
HAP POLLUTANTS								
BENZENE	PPH	0.000	0.000	0.000	0.000	0.000		
ETHYLBENZENE	PPH							
FORMALDEHYDE	PPH	0.000	0.000	0.000	0.000	0.000		
HEXANE-N	PPH	0.007	0.002	0.002	0.002	0.002		
METHANOL	PPH							
TOLUENE	PPH	0.000	0.000	0.000	0.000	0.000		
XYLENE-M	PPH							
XYLENE-O	PPH	0.000	0.000	0.000	0.000	0.000		
XYLENE-P	PPH							
	PPH							
H2S	PPH	0.000	0.000	0.000	0.000	0.000		
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH	0.009	0.002	0.002	0.002	0.002		
CO2	PPH	470.588	117.647	117.647	117.647	117.647		
N2O	PPH	0.009	0.002	0.002	0.002	0.002		
	PPH							
	PPH							
TOTAL	PPH	2,996.607	749.152	749.152	749.152	749.152		
EMISSIONS	UNITS	TOTAL	HT1	HT2	HT3	HT4		
NOx	TPY	1.718	0.429	0.429	0.429	0.429		
CO	TPY	1.443	0.361	0.361	0.361	0.361		
SO2	TPY	0.010	0.003	0.003	0.003	0.003		
PM10	TPY	0.131	0.033	0.033	0.033	0.033		
PM2.5	TPY	0.131	0.033	0.033	0.033	0.033		
Pb	TPY	0.000	0.000	0.000	0.000	0.000		
VOC	TPY	0.094	0.024	0.024	0.024	0.024		
HAP POLLUTANTS								
BENZENE	TPY	0.000	0.000	0.000	0.000	0.000		
ETHYLBENZENE	TPY							
FORMALDEHYDE	TPY	0.001	0.000	0.000	0.000	0.000		
HEXANE-N	TPY	0.031	0.008	0.008	0.008	0.008		
METHANOL	TPY							
TOLUENE	TPY	0.000	0.000	0.000	0.000	0.000		
XYLENE-M	TPY							
XYLENE-O	TPY	0.000	0.000	0.000	0.000	0.000		
XYLENE-P	TPY							
	TPY							
	TPY							
H2S	TPY	0.000	0.000	0.000	0.000	0.000		
VOC(HAP)-u	TPY							
GHG POLLUTANTS								
METHANE	TPY	0.040	0.010	0.010	0.010	0.010		
CO2	TPY	2,061.176	515.294	515.294	515.294	515.294		
N2O	TPY	0.038	0.009	0.009	0.009	0.009		
	TPY							
	TPY							
TOTAL	TPY	13,125.140	3,281.285	3,281.285	3,281.285	3,281.285		

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
PI-7-CERT Registration
3/11/2024
BOILERS/HEATERS 1 (<100 MMBTU/HR)

EXAMPLE CALCULATIONS:
CALCULATE NOX EMISSIONS:

EPN		HT1	
HEAT INPUT	MMBTU/HR	1,000	
FUEL HEAT CONTENT	BTU/SCF	1,318,000	
RUN TIME	HRS/YR	8,760,000	
FUEL CONSUMPTION=	MMSCF/HR	<div><div>HEAT INPUT, MMBTU/HR</div><div>HEAT CONTENT, BTU/SCF</div></div>	
FUEL CONSUMPTION=	MMSCF/HR	0.00076	
NOX E.F.	LBS/MMSCF	100.000	AT 1020 BTU/SCF
NOX E.F.	LBS/MMSCF	129.216	CORRECTED FOR FUEL HEAT CONTENT
NOX EMISSIONS=	PPH	FUEL CONSUMPTION, MMSCF/HR X NOX E.F., LBS/MMSCF	
NOX EMISSIONS=	PPH	0.098	
NOX EMISSIONS=	TPY	<div><div>NOX EMISSIONS, PPH X RUN TIME, HRS/YR</div><div>2,000 LBS/TON</div></div>	
NOX EMISSIONS=	TPY	0.429	

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Tanks 1-SWF

SOURCE DESCRIPTION		
FIN	EPN	DESCRIPTION
TANK1	TANK1	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK2	TANK2	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK17	TANK17	PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK3	TANK3	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK4	TANK4	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK5	TANK5	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)

SOURCE OPERATING PARAMETERS									
FIN	EPN	TYPE	CONTENTS	SIZE GALLONS	SIZE BBLs	THROUGHPUT BBLs/D	FILL RATE GPH	TEMP. DEDG. F	RUN-TIME HRS/YR
TANK1	TANK1	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK2	TANK2	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK17	TANK17	VFR	PRODUCED WATER	16,800.0	400.0	2.81	4.922	90.108	8,760.0
TANK3	TANK3	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK4	TANK4	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK5	TANK5	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	STACK DIA. FT.	STACK HT. FT.	EXH. TEMP DEG. F	EXH. VEL. FPS	
TANK1	TANK1	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK2	TANK2	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK17	TANK17	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK3	TANK3	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK4	TANK4	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK5	TANK5	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	

UN-CONTROLLED VAPORS									
FIN	EPN	LBS/YR	MAX. LBS/MO.	LBS/OZ. SEA.	PRIMARY CONTROL	P. C. DRE %	SECONDARY CONTROL	S.C. DRE %	
TANK1	TANK1	489.687	122.422	204.036	TO AIR		TO AIR		
TANK2	TANK2	489.687	122.422	204.036	TO AIR		TO AIR		
TANK17	TANK17	625.041	156.260	260.434	TO AIR		TO AIR		
TANK3	TANK3	489.687	122.422	204.036	TO AIR		TO AIR		
TANK4	TANK4	489.687	122.422	204.036	TO AIR		TO AIR		
TANK5	TANK5	489.687	122.422	204.036	TO AIR		TO AIR		

EMISSIONS TO ATMOSPHERE									
FIN	EPN	EMISSIONS MAX. PPH	EMISSIONS AVE. PPH	EMISSIONS TPY					
TANK1	TANK1	0.168	0.056	0.245					
TANK2	TANK2	0.168	0.056	0.245					
TANK17	TANK17	21.406	0.071	0.313					
TANK3	TANK3	0.168	0.056	0.245					
TANK4	TANK4	0.168	0.056	0.245					
TANK5	TANK5	0.168	0.056	0.245					

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Tanks 1-SWF

VAPOR PROPERTIES						
EPN	TANK1	TANK2	TANK17	TANK3	TANK4	TANK5
CRITERIA POLLUTANTS	WT%	WT%	WT%	WT%	WT%	WT%
NOx						
CO						
SO2						
PM10						
PM2.5						
Pb						
VOC	74.9996%	74.9996%	74.9996%	74.9996%	74.9996%	74.9996%
HAP POLLUTANTS						
BENZENE	0.1752%	0.1752%	0.1752%	0.1752%	0.1752%	0.1752%
ETHYLBENZENE	0.0140%	0.0140%	0.0140%	0.0140%	0.0140%	0.0140%
FORMALDEHYDE						
HEXANE-N	1.4896%	1.4896%	1.4896%	1.4896%	1.4896%	1.4896%
METHANOL						
TOLUENE	0.1702%	0.1702%	0.1702%	0.1702%	0.1702%	0.1702%
XYLENE-M	0.0700%	0.0700%	0.0700%	0.0700%	0.0700%	0.0700%
XYLENE-O						
XYLENE-P						
H2S	0.0403%	0.0403%	0.0403%	0.0403%	0.0403%	0.0403%
VOC(HAP)-u						
GHG POLLUTANTS						
METHANE						
CO2	24.9601%	24.9601%	24.9601%	24.9601%	24.9601%	24.9601%
N2O						
TOTAL	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Tanks 1-SWF

EMISSIONS TO ATMOSPHERE								
EMISSIONS	UNITS	TOTAL	TANK1	TANK2	TANK17	TANK3	TANK4	TANK5
NOx	PPH							
CO	PPH							
SO2	PPH							
PM10	PPH							
PM2.5	PPH							
Pb	PPH							
VOC	PPH	0.263	0.042	0.042	0.054	0.042	0.042	0.042
HAP POLLUTANTS								
BENZENE	PPH	0.001	0.000	0.000	0.000	0.000	0.000	0.000
ETHYLBENZENE	PPH	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FORMALDEHYDE	PPH							
HEXANE-N	PPH	0.005	0.001	0.001	0.001	0.001	0.001	0.001
METHANOL	PPH							
TOLUENE	PPH	0.001	0.000	0.000	0.000	0.000	0.000	0.000
XYLENE-M	PPH	0.000	0.000	0.000	0.000	0.000	0.000	0.000
XYLENE-O	PPH							
XYLENE-P	PPH							
	PPH							
H2S	PPH	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH							
CO2	PPH	0.088	0.014	0.014	0.018	0.014	0.014	0.014
N2O	PPH							
	PPH							
	PPH							
TOTAL	PPH	0.351	0.056	0.056	0.071	0.056	0.056	0.056
EMISSIONS	UNITS	TOTAL	TANK1	TANK2	TANK17	TANK3	TANK4	TANK5
NOx	TPY							
CO	TPY							
SO2	TPY							
PM10	TPY							
PM2.5	TPY							
Pb	TPY							
VOC	TPY	1.153	0.184	0.184	0.234	0.184	0.184	0.184
HAP POLLUTANTS								
BENZENE	TPY	0.003	0.000	0.000	0.001	0.000	0.000	0.000
ETHYLBENZENE	TPY	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FORMALDEHYDE	TPY							
HEXANE-N	TPY	0.023	0.004	0.004	0.005	0.004	0.004	0.004
METHANOL	TPY							
TOLUENE	TPY	0.003	0.000	0.000	0.001	0.000	0.000	0.000
XYLENE-M	TPY	0.001	0.000	0.000	0.000	0.000	0.000	0.000
XYLENE-O	TPY							
XYLENE-P	TPY							
	TPY							
	TPY							
H2S	TPY	0.001	0.000	0.000	0.000	0.000	0.000	0.000
VOC(HAP)-u	TPY							
GHG POLLUTANTS								
METHANE	TPY							
CO2	TPY	0.384	0.061	0.061	0.078	0.061	0.061	0.061
N2O	TPY							
	TPY							
	TPY							
TOTAL	TPY	1.537	0.245	0.245	0.313	0.245	0.245	0.245

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC

Corner S Ranch Mcm B Pad

PI-7-CERT Registration

3/11/2024

Tanks 1-SWF

EXAMPLE CALCULATIONS:
CALCULATE VOC EMISSIONS:

EPN		TANK1			
AP-42, CHP, 7 EMISSIONS	LBS/YR	489.687		AVE. ANNUAL EMISSION RATE	
AP-42, CHP, 7 EMISSIONS	LBS	122.422		MAX. EMISSION RATE	
RUN TIME	HRS/YR	8,760.000			
TANK FILLING RATE:	GPH	2.461			
TANK CAPACITY:	GALLONS	16,800.000			
TANK THROUGHPUT	GALLONS/YR	21,557.813			
TURN-OVERS:	NO./YR	<u>TANK THROUGHPUT, GAL/YR</u>			
		TANK SIZE, GALLONS			
TURN-OVERS:	NO./YR	1.283			
CONTROL DRE:	%				
VAPOR VOC WT %	%	75.00%			
UN-CONTROLLED MAX. EMISSIONS	PPH	<u>EMISSIONS, LBS</u>	X	VOC WT. %	
		HRS/YR			
UN-CONTROLLED MAX. EMISSIONS	PPH	0.042			
UN-CONTROLLED MAX. EMISSIONS	PPH	HOURLY RATE X (1 - DRE)		=	0.042
UN-CONTROLLED ANNUAL EMISSIONS	LBS/YR	489.687	X	VOC WT. %	= 367.263
UN-CONTROLLED ANNUAL EMISSIONS	TPY	0.184			=
CONTROLLED ANNUAL EMISSIONS	TPY	ANNUAL RATE X (1 - DRE)		=	0.184

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Tanks 2-SWF

SOURCE DESCRIPTION		
FIN	EPN	DESCRIPTION
TANK6	TANK6	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK7	TANK7	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK8	TANK8	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK9	TANK9	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK10	TANK10	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK11	TANK11	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)

SOURCE OPERATING PARAMETERS									
FIN	EPN	TYPE	CONTENTS	SIZE GALLONS	SIZE BBLs	THROUGHPUT BBLs/D	FILL RATE GPH	TEMP. DEDG. F	RUN-TIME HRS/YR
TANK6	TANK6	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK7	TANK7	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK8	TANK8	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK9	TANK9	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK10	TANK10	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK11	TANK11	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	STACK DIA. FT.	STACK HT. FT.	EXH. TEMP DEG. F	EXH. VEL. FPS	
TANK6	TANK6	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK7	TANK7	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK8	TANK8	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK9	TANK9	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK10	TANK10	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK11	TANK11	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	

UN-CONTROLLED VAPORS									
FIN	EPN	LBS/YR	MAX. LBS/MO.	LBS/OZ. SEA.	PRIMARY CONTROL	P. C. DRE %	SECONDARY CONTROL	S.C. DRE %	
TANK6	TANK6	489.687	122.422	204.036	TO AIR		TO AIR		
TANK7	TANK7	489.687	122.422	204.036	TO AIR		TO AIR		
TANK8	TANK8	489.687	122.422	204.036	TO AIR		TO AIR		
TANK9	TANK9	489.687	122.422	204.036	TO AIR		TO AIR		
TANK10	TANK10	489.687	122.422	204.036	TO AIR		TO AIR		
TANK11	TANK11	489.687	122.422	204.036	TO AIR		TO AIR		

EMISSIONS TO ATMOSPHERE									
FIN	EPN	EMISSIONS MAX. PPH	EMISSIONS AVE. PPH	EMISSIONS TPY					
TANK6	TANK6	0.168	0.056	0.245					
TANK7	TANK7	0.168	0.056	0.245					
TANK8	TANK8	0.168	0.056	0.245					
TANK9	TANK9	0.168	0.056	0.245					
TANK10	TANK10	0.168	0.056	0.245					
TANK11	TANK11	0.168	0.056	0.245					

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
PI-7-CERT Registration
3/11/2024
Tanks 2-SWF

VAPOR PROPERTIES						
EPN	TANK6	TANK7	TANK8	TANK9	TANK10	TANK11
CRITERIA POLLUTANTS	WT%	WT%	WT%	WT%	WT%	WT%
NOx						
CO						
SO2						
PM10						
PM2.5						
Pb						
VOC	74.9996%	74.9996%	74.9996%	74.9996%	74.9996%	74.9996%
HAP POLLUTANTS						
BENZENE	0.1752%	0.1752%	0.1752%	0.1752%	0.1752%	0.1752%
ETHYLBENZENE	0.0140%	0.0140%	0.0140%	0.0140%	0.0140%	0.0140%
FORMALDEHYDE						
HEXANE-N	1.4896%	1.4896%	1.4896%	1.4896%	1.4896%	1.4896%
METHANOL						
TOLUENE	0.1702%	0.1702%	0.1702%	0.1702%	0.1702%	0.1702%
XYLENE-M	0.0700%	0.0700%	0.0700%	0.0700%	0.0700%	0.0700%
XYLENE-O						
XYLENE-P						
H2S	0.0403%	0.0403%	0.0403%	0.0403%	0.0403%	0.0403%
VOC(HAP)-u						
GHG POLLUTANTS						
METHANE						
CO2	24.9601%	24.9601%	24.9601%	24.9601%	24.9601%	24.9601%
N2O						
TOTAL	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Tanks 2-SWF

EMISSIONS TO ATMOSPHERE								
EMISSIONS	UNITS	TOTAL	TANK6	TANK7	TANK8	TANK9	TANK10	TANK11
NOx	PPH							
CO	PPH							
SO2	PPH							
PM10	PPH							
PM2.5	PPH							
Pb	PPH							
VOC	PPH	0.252	0.042	0.042	0.042	0.042	0.042	0.042
HAP POLLUTANTS								
BENZENE	PPH	0.001	0.000	0.000	0.000	0.000	0.000	0.000
ETHYLBENZENE	PPH	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FORMALDEHYDE	PPH							
HEXANE-N	PPH	0.005	0.001	0.001	0.001	0.001	0.001	0.001
METHANOL	PPH							
TOLUENE	PPH	0.001	0.000	0.000	0.000	0.000	0.000	0.000
XYLENE-M	PPH	0.000	0.000	0.000	0.000	0.000	0.000	0.000
XYLENE-O	PPH							
XYLENE-P	PPH							
	PPH							
H2S	PPH	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH							
CO2	PPH	0.084	0.014	0.014	0.014	0.014	0.014	0.014
N2O	PPH							
	PPH							
	PPH							
TOTAL	PPH	0.335	0.056	0.056	0.056	0.056	0.056	0.056
EMISSIONS	UNITS	TOTAL	TANK6	TANK7	TANK8	TANK9	TANK10	TANK11
NOx	TPY							
CO	TPY							
SO2	TPY							
PM10	TPY							
PM2.5	TPY							
Pb	TPY							
VOC	TPY	1.102	0.184	0.184	0.184	0.184	0.184	0.184
HAP POLLUTANTS								
BENZENE	TPY	0.003	0.000	0.000	0.000	0.000	0.000	0.000
ETHYLBENZENE	TPY	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FORMALDEHYDE	TPY							
HEXANE-N	TPY	0.022	0.004	0.004	0.004	0.004	0.004	0.004
METHANOL	TPY							
TOLUENE	TPY	0.003	0.000	0.000	0.000	0.000	0.000	0.000
XYLENE-M	TPY	0.001	0.000	0.000	0.000	0.000	0.000	0.000
XYLENE-O	TPY							
XYLENE-P	TPY							
	TPY							
	TPY							
H2S	TPY	0.001	0.000	0.000	0.000	0.000	0.000	0.000
VOC(HAP)-u	TPY							
GHG POLLUTANTS								
METHANE	TPY							
CO2	TPY	0.367	0.061	0.061	0.061	0.061	0.061	0.061
N2O	TPY							
	TPY							
	TPY							
TOTAL	TPY	1.469	0.245	0.245	0.245	0.245	0.245	0.245

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC

Corner S Ranch Mcm B Pad

PI-7-CERT Registration

3/11/2024

Tanks 2-SWF

EXAMPLE CALCULATIONS:
CALCULATE VOC EMISSIONS:

EPN		TANK6			
AP-42, CHP, 7 EMISSIONS	LBS/YR	489.687		AVE. ANNUAL EMISSION RATE	
AP-42, CHP, 7 EMISSIONS	LBS	122.422		MAX. EMISSION RATE	
RUN TIME	HRS/YR	8,760.000			
TANK FILLING RATE:	GPH	2.461			
TANK CAPACITY:	GALLONS	16,800.000			
TANK THROUGHPUT	GALLONS/YR	21,557.813			
TURN-OVERS:	NO./YR	<u>TANK THROUGHPUT, GAL/YR</u>			
		TANK SIZE, GALLONS			
TURN-OVERS:	NO./YR	1.283			
CONTROL DRE:	%				
VAPOR VOC WT %	%	75.00%			
UN-CONTROLLED MAX. EMISSIONS	PPH	<u>EMISSIONS, LBS</u>	X	VOC WT. %	
		HRS/YR			
UN-CONTROLLED MAX. EMISSIONS	PPH	0.042			
UN-CONTROLLED MAX. EMISSIONS	PPH	HOURLY RATE X (1 - DRE)		=	0.042
UN-CONTROLLED ANNUAL EMISSIONS	LBS/YR	489.687	X	VOC WT. %	= 367.263
UN-CONTROLLED ANNUAL EMISSIONS	TPY	0.184			=
CONTROLLED ANNUAL EMISSIONS	TPY	ANNUAL RATE X (1 - DRE)		=	0.184

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Tanks 3-SWF

SOURCE DESCRIPTION		
FIN	EPN	DESCRIPTION
TANK12	TANK12	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK13	TANK13	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK14	TANK14	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK15	TANK15	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK16	TANK16	CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)

SOURCE OPERATING PARAMETERS									
FIN	EPN	TYPE	CONTENTS	SIZE GALLONS	SIZE BBLs	THROUGHPUT BBLs/D	FILL RATE GPH	TEMP. DEG. F	RUN-TIME HRS/YR
TANK12	TANK12	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK13	TANK13	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK14	TANK14	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK15	TANK15	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0
TANK16	TANK16	VFR	STABILIZED CRUD	16,800.0	400.0	1.41	2.461	90.108	8,760.0

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	STACK DIA. FT.	STACK HT. FT.	EXH. TEMP DEG. F	EXH. VEL. FPS	
TANK12	TANK12	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK13	TANK13	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK14	TANK14	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK15	TANK15	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK16	TANK16	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	

UN-CONTROLLED VAPORS									
FIN	EPN	LBS/YR	MAX. LBS/MO.	LBS/OZ. SEA.	PRIMARY CONTROL	P. C. DRE %	SECONDARY CONTROL	S.C. DRE %	
TANK12	TANK12	489.687	122.422	204.036	TO AIR		TO AIR		
TANK13	TANK13	489.687	122.422	204.036	TO AIR		TO AIR		
TANK14	TANK14	489.687	122.422	204.036	TO AIR		TO AIR		
TANK15	TANK15	489.687	122.422	204.036	TO AIR		TO AIR		
TANK16	TANK16	489.687	122.422	204.036	TO AIR		TO AIR		

EMISSIONS TO ATMOSPHERE									
FIN	EPN	EMISSIONS MAX. PPH	EMISSIONS AVE. PPH	EMISSIONS TPY					
TANK12	TANK12	0.168	0.056	0.245					
TANK13	TANK13	0.168	0.056	0.245					
TANK14	TANK14	0.168	0.056	0.245					
TANK15	TANK15	0.168	0.056	0.245					
TANK16	TANK16	0.168	0.056	0.245					

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Tanks 3-SWF

VAPOR PROPERTIES						
EPN	TANK12	TANK13	TANK14	TANK15	TANK16	
CRITERIA POLLUTANTS	WT%	WT%	WT%	WT%	WT%	WT%
NOx						
CO						
SO2						
PM10						
PM2.5						
Pb						
VOC	74.9996%	74.9996%	74.9996%	74.9996%	74.9996%	
HAP POLLUTANTS						
BENZENE	0.1752%	0.1752%	0.1752%	0.1752%	0.1752%	
ETHYLBENZENE	0.0140%	0.0140%	0.0140%	0.0140%	0.0140%	
FORMALDEHYDE						
HEXANE-N	1.4896%	1.4896%	1.4896%	1.4896%	1.4896%	
METHANOL						
TOLUENE	0.1702%	0.1702%	0.1702%	0.1702%	0.1702%	
XYLENE-M	0.0700%	0.0700%	0.0700%	0.0700%	0.0700%	
XYLENE-O						
XYLENE-P						
H2S	0.0403%	0.0403%	0.0403%	0.0403%	0.0403%	
VOC(HAP)-u						
GHG POLLUTANTS						
METHANE						
CO2	24.9601%	24.9601%	24.9601%	24.9601%	24.9601%	
N2O						
TOTAL	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Tanks 3-SWF

EMISSIONS TO ATMOSPHERE								
EMISSIONS	UNITS	TOTAL	TANK12	TANK13	TANK14	TANK15	TANK16	
NOx	PPH							
CO	PPH							
SO2	PPH							
PM10	PPH							
PM2.5	PPH							
Pb	PPH							
VOC	PPH	0.210	0.042	0.042	0.042	0.042	0.042	
HAP POLLUTANTS								
BENZENE	PPH	0.000	0.000	0.000	0.000	0.000	0.000	
ETHYLBENZENE	PPH	0.000	0.000	0.000	0.000	0.000	0.000	
FORMALDEHYDE	PPH							
HEXANE-N	PPH	0.004	0.001	0.001	0.001	0.001	0.001	
METHANOL	PPH							
TOLUENE	PPH	0.000	0.000	0.000	0.000	0.000	0.000	
XYLENE-M	PPH	0.000	0.000	0.000	0.000	0.000	0.000	
XYLENE-O	PPH							
XYLENE-P	PPH							
	PPH							
H2S	PPH	0.000	0.000	0.000	0.000	0.000	0.000	
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH							
CO2	PPH	0.070	0.014	0.014	0.014	0.014	0.014	
N2O	PPH							
	PPH							
	PPH							
TOTAL	PPH	0.280	0.056	0.056	0.056	0.056	0.056	
EMISSIONS	UNITS	TOTAL	TANK12	TANK13	TANK14	TANK15	TANK16	
NOx	TPY							
CO	TPY							
SO2	TPY							
PM10	TPY							
PM2.5	TPY							
Pb	TPY							
VOC	TPY	0.918	0.184	0.184	0.184	0.184	0.184	
HAP POLLUTANTS								
BENZENE	TPY	0.002	0.000	0.000	0.000	0.000	0.000	
ETHYLBENZENE	TPY	0.000	0.000	0.000	0.000	0.000	0.000	
FORMALDEHYDE	TPY							
HEXANE-N	TPY	0.018	0.004	0.004	0.004	0.004	0.004	
METHANOL	TPY							
TOLUENE	TPY	0.002	0.000	0.000	0.000	0.000	0.000	
XYLENE-M	TPY	0.001	0.000	0.000	0.000	0.000	0.000	
XYLENE-O	TPY							
XYLENE-P	TPY							
	TPY							
	TPY							
H2S	TPY	0.000	0.000	0.000	0.000	0.000	0.000	
VOC(HAP)-u	TPY							
GHG POLLUTANTS								
METHANE	TPY							
CO2	TPY	0.306	0.061	0.061	0.061	0.061	0.061	
N2O	TPY							
	TPY							
	TPY							
TOTAL	TPY	1.224	0.245	0.245	0.245	0.245	0.245	

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
PI-7-CERT Registration
3/11/2024
Tanks 3-SWF

EXAMPLE CALCULATIONS:
CALCULATE VOC EMISSIONS:

EPN		TANK12			
AP-42, CHP. 7 EMISSIONS	LBS/YR	489.687	AVE. ANNUAL EMISSION RATE		
RUN TIME	HRS/YR	8,760.000			
TANK FILLING RATE:	GPH	2.461			
TANK CAPACITY:	GALLONS	16,800.000			
TANK THROUGHPUT	GALLONS/YR	21,557.813			
TURN-OVERS:	NO./YR	<div>TANK THROUGHPUT, GAL/YR</div>			
		TANK SIZE, GALLONS			
TURN-OVERS:	NO./YR	1.283			
CONTROL DRE:	%				
VAPOR VOC WT %	%	75.00%			
UN-CONTROLLED MAX. EMISSIONS	PPH	<div>EMISSIONS, LBS</div>	X	VOC WT. %	
		HRS/YR			
UN-CONTROLLED MAX. EMISSIONS	PPH	0.042			
UN-CONTROLLED MAX. EMISSIONS	PPH	HOURLY RATE X (1 - DRE)	=		0.042
UN-CONTROLLED ANNUAL EMISSIONS	LBS/YR	489.687	X	VOC WT. %	=
UN-CONTROLLED ANNUAL EMISSIONS	TPY	0.184			=
CONTROLLED ANNUAL EMISSIONS	TPY	ANNUAL RATE X (1 - DRE)	=		0.184

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Tanks 4-SWF

SOURCE DESCRIPTION		
FIN	EPN	DESCRIPTION
TANK18	TANK18	PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK19	TANK19	PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)
TANK20	TANK20	PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)

SOURCE OPERATING PARAMETERS									
FIN	EPN	TYPE	CONTENTS	SIZE GALLONS	SIZE BBLs	THROUGHPUT BBLs/D	FILL RATE GPH	TEMP. DEDG. F	RUN-TIME HRS/YR
TANK18	TANK18	VFR	PRODUCED WATER	16,800.0	400.0	2.81	4.922	90.108	8,760.0
TANK19	TANK19	VFR	PRODUCED WATER	16,800.0	400.0	2.81	4.922	90.108	8,760.0
TANK20	TANK20	VFR	PRODUCED WATER	16,800.0	400.0	2.81	4.922	90.108	8,760.0

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	STACK DIA. FT.	STACK HT. FT.	EXH. TEMP DEG. F	EXH. VEL. FPS	
TANK18	TANK18	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK19	TANK19	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	
TANK20	TANK20	14R	528,720.0	3,162,010.6	0.500	21.000	90.1	0.00	

UN-CONTROLLED VAPORS									
FIN	EPN	LBS/YR	MAX. LBS/MO.	LBS/OZ. SEA.	PRIMARY CONTROL	P. C. DRE %	SECONDARY CONTROL	S.C. DRE %	
TANK18	TANK18	625.041	156.260	260.434	TO AIR		TO AIR		
TANK19	TANK19	625.041	156.260	260.434	TO AIR		TO AIR		
TANK20	TANK20	625.041	156.260	260.434	TO AIR		TO AIR		

EMISSIONS TO ATMOSPHERE									
FIN	EPN	EMISSIONS MAX. PPH	EMISSIONS AVE. PPH	EMISSIONS TPY					
TANK18	TANK18	21.406	0.071	0.313					
TANK19	TANK19	21.406	0.071	0.313					
TANK20	TANK20	21.406	0.071	0.313					

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
PI-7-CERT Registration
3/11/2024
Tanks 4-SWF

VAPOR PROPERTIES						
EPN	TANK18	TANK19	TANK20			
CRITERIA POLLUTANTS	WT%	WT%	WT%	WT%	WT%	WT%
NOx						
CO						
SO2						
PM10						
PM2.5						
Pb						
VOC	74.9996%	74.9996%	74.9996%			
HAP POLLUTANTS						
BENZENE	0.1752%	0.1752%	0.1752%			
ETHYLBENZENE	0.0140%	0.0140%	0.0140%			
FORMALDEHYDE						
HEXANE-N	1.4896%	1.4896%	1.4896%			
METHANOL						
TOLUENE	0.1702%	0.1702%	0.1702%			
XYLENE-M	0.0700%	0.0700%	0.0700%			
XYLENE-O						
XYLENE-P						
H2S	0.0403%	0.0403%	0.0403%			
VOC(HAP)-u						
GHG POLLUTANTS						
METHANE						
CO2	24.9601%	24.9601%	24.9601%			
N2O						
TOTAL	100.0000%	100.0000%	100.0000%			

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:Tanks 4-SWF

EMISSIONS TO ATMOSPHERE								
EMISSIONS	UNITS	TOTAL	TANK18	TANK19	TANK20			
NOx	PPH							
CO	PPH							
SO2	PPH							
PM10	PPH							
PM2.5	PPH							
Pb	PPH							
VOC	PPH	0.161	0.054	0.054	0.054			
HAP POLLUTANTS								
BENZENE	PPH	0.000	0.000	0.000	0.000			
ETHYLBENZENE	PPH	0.000	0.000	0.000	0.000			
FORMALDEHYDE	PPH							
HEXANE-N	PPH	0.003	0.001	0.001	0.001			
METHANOL	PPH							
TOLUENE	PPH	0.000	0.000	0.000	0.000			
XYLENE-M	PPH	0.000	0.000	0.000	0.000			
XYLENE-O	PPH							
XYLENE-P	PPH							
	PPH							
H2S	PPH	0.000	0.000	0.000	0.000			
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH							
CO2	PPH	0.053	0.018	0.018	0.018			
N2O	PPH							
	PPH							
TOTAL	PPH	0.214	0.071	0.071	0.071			
EMISSIONS	UNITS	TOTAL	TANK18	TANK19	TANK20			
NOx	TPY							
CO	TPY							
SO2	TPY							
PM10	TPY							
PM2.5	TPY							
Pb	TPY							
VOC	TPY	0.703	0.234	0.234	0.234			
HAP POLLUTANTS								
BENZENE	TPY	0.002	0.001	0.001	0.001			
ETHYLBENZENE	TPY	0.000	0.000	0.000	0.000			
FORMALDEHYDE	TPY							
HEXANE-N	TPY	0.014	0.005	0.005	0.005			
METHANOL	TPY							
TOLUENE	TPY	0.002	0.001	0.001	0.001			
XYLENE-M	TPY	0.001	0.000	0.000	0.000			
XYLENE-O	TPY							
XYLENE-P	TPY							
	TPY							
H2S	TPY	0.000	0.000	0.000	0.000			
VOC(HAP)-u	TPY							
GHG POLLUTANTS								
METHANE	TPY							
CO2	TPY	0.234	0.078	0.078	0.078			
N2O	TPY							
	TPY							
TOTAL	TPY	0.938	0.313	0.313	0.313			

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC

Corner S Ranch Mcm B Pad

PI-7-CERT Registration

3/11/2024

Tanks 4-SWF

EXAMPLE CALCULATIONS:
CALCULATE VOC EMISSIONS:

EPN		TANK18			
AP-42, CHP. 7 EMISSIONS	LBS/YR	625.041	AVE. ANNUAL EMISSION RATE		
RUN TIME	HRS/YR	8,760.000			
TANK FILLING RATE:	GPH	4.922			
TANK CAPACITY:	GALLONS	16,800.000			
TANK THROUGHPUT	GALLONS/YR	43,115.625			
TURN-OVERS:	NO./YR	<div>TANK THROUGHPUT, GAL/YR</div>			
		<div>TANK SIZE, GALLONS</div>			
TURN-OVERS:	NO./YR	2.566			
CONTROL DRE:	%				
VAPOR VOC WT %	%	75.00%			
UN-CONTROLLED MAX. EMISSIONS	PPH	<div>EMISSIONS, LBS</div>	X	VOC WT. %	
		<div>HRS/YR</div>			
UN-CONTROLLED MAX. EMISSIONS	PPH	0.054			
UN-CONTROLLED MAX. EMISSIONS	PPH	HOURLY RATE X (1 - DRE)		=	0.054
UN-CONTROLLED ANNUAL EMISSIONS	LBS/YR	625.041	X	VOC WT. %	=
UN-CONTROLLED ANNUAL EMISSIONS	TPY	0.234			=
CONTROLLED ANNUAL EMISSIONS	TPY	ANNUAL RATE X (1 - DRE)		=	0.234

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:LOADING 1

SOURCE DESCRIPTION		
FIN	EPN	DESCRIPTION
C LOAD 1	C LOAD 1	CRUDE LOADING; VENTING TO ATMOSPHERE; 106.352(L)
PW LOAD 1	PW LOAD 1	PRODUCED WATER LOADING; ASSUMED 1% CRUDE BY VOLUME; VENTING TO ATMOSPHERE; 106.352(L)

SOURCE OPERATING PARAMETERS									
FIN	EPN	CONTENTS	THROUGHPUT BBLS/D	THROUGHPUT GAL/YR	VOC FRACTION	VOC FRACTION GAL/YR	LOADING RATE GPM	OPERATING TIME HRS/YR	MAX. TEMP, DEG. F
C LOAD 1	C LOAD 1	STABILIZED CRUD	22.50	344,925.00	1.00	344,925.00	126.000	45.625	90.1
PW LOAD 1	PW LOAD 1	PRODUCED WATER	11.25	172,462.50	0.01	1,724.63	126.000	22.813	90.1

SOURCE OPERATING PARAMETERS									
FIN	EPN	V.P. @ MAX. TEMP PSIA	VAPOR MOLE. WT. LBS/LB-MOLE	SATURATION FACTOR	UN-CONTROLLED EMISSION RATE LBS/MGAL	PRIMARY CONTROL	P. C. DRE %	SECONDARY CONTROL	S.C. DRE %
C LOAD 1	C LOAD 1	8.746	38.143	0.6	4.53	TO AIR		TO AIR	
PW LOAD 1	PW LOAD 1	8.746	38.143	0.6	4.53	TO AIR		TO AIR	

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	STACK DIA. FT.	STACK HT. FT.	EXH. TEMP DEG. F	EXH. VEL. FPS	
C LOAD 1	C LOAD 1	14R	528,720	3,162,011	0.500	8.000	90.1	0.23	
PW LOAD 1	PW LOAD 1	14R	528,720	3,162,011	0.500	8.000	90.1	0.00	

EMISSIONS TO ATMOSPHERE									
FIN	EPN	EMISSIONS MAX. LBS/YR	EMISSIONS MAX. PPH	EMISSIONS TPY					
C LOAD 1	C LOAD 1	1,563.657	34.272	0.782					
PW LOAD 1	PW LOAD 1	7.818	0.343	0.004					

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC

Corner S Ranch Mcm B Pad

PI-7-CERT Registration

3/11/2024

LOADING 1

VAPOR PROPERTIES						
EPN	C LOAD 1	PW LOAD 1				
CRITERIA POLLUTANTS	WT%	WT%	WT%	WT%	WT%	WT%
NOx						
CO						
SO2						
PM10						
PM2.5						
Pb						
VOC	99.9993%	99.9993%				
HAP POLLUTANTS						
BENZENE	0.0031%	0.0031%				
ETHYLBENZENE	0.0002%	0.0002%				
FORMALDEHYDE						
HEXANE-N	0.0266%	0.0266%				
METHANOL						
TOLUENE	0.0030%	0.0030%				
XYLENE-M	0.0012%	0.0012%				
XYLENE-O						
XYLENE-P						
H2S	0.0007%	0.0007%				
VOC(HAP)-u						
GHG POLLUTANTS						
METHANE						
CO2						
N2O						
TOTAL	100.0000%	100.0000%				

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:LOADING 1

EMISSIONS TO ATMOSPHERE								
EMISSIONS	UNITS	TOTAL	C LOAD 1	PW LOAD 1				
NOx	PPH							
CO	PPH							
SO2	PPH							
PM10	PPH							
PM2.5	PPH							
Pb	PPH							
VOC	PPH	34.614	34.272	0.343				
HAP POLLUTANTS								
BENZENE	PPH	0.001	0.001	0.000				
ETHYLBENZENE	PPH	0.000	0.000	0.000				
FORMALDEHYDE	PPH							
HEXANE-N	PPH	0.009	0.009	0.000				
METHANOL	PPH							
TOLUENE	PPH	0.001	0.001	0.000				
XYLENE-M	PPH	0.000	0.000	0.000				
XYLENE-O	PPH							
XYLENE-P	PPH							
	PPH							
	PPH							
H2S	PPH	0.000	0.000	0.000				
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH							
CO2	PPH							
N2O	PPH							
	PPH							
	PPH							
TOTAL	PPH	34.615	34.272	0.343				
EMISSIONS	UNITS	TOTAL	C LOAD 1	PW LOAD 1				
NOx	TPY							
CO	TPY							
SO2	TPY							
PM10	TPY							
PM2.5	TPY							
Pb	TPY							
VOC	TPY	0.786	0.782	0.004				
HAP POLLUTANTS								
BENZENE	TPY	0.000	0.000	0.000				
ETHYLBENZENE	TPY	0.000	0.000	0.000				
FORMALDEHYDE	TPY							
HEXANE-N	TPY	0.000	0.000	0.000				
METHANOL	TPY							
TOLUENE	TPY	0.000	0.000	0.000				
XYLENE-M	TPY	0.000	0.000	0.000				
XYLENE-O	TPY							
XYLENE-P	TPY							
	TPY							
	TPY							
H2S	TPY	0.000	0.000	0.000				
VOC(HAP)-u	TPY							
GHG POLLUTANTS								
METHANE	TPY							
CO2	TPY							
N2O	TPY							
	TPY							
	TPY							
TOTAL	TPY	0.786	0.782	0.004				

COMPANY: Ineos USA Oil & Gas LLC
SITE: Corner S Ranch Mcm B Pad
ACTION: PI-7-CERT Registration
DATE: 3/11/2024
WORKSHEET: LOADING 1

EXAMPLE CALCULATIONS:
CALCULATE VOC EMISSIONS:

EPN		C LOAD 1		
COMOUND NAME		STABILIZED CRUDE		
VOC FRACTION		1.000		
OPERATION	HRS/YR	45.625		
THROUGHPUT	GALLONS/YR	344,925.000		
THROUGHPUT (VOC FRACTION)	GALLONS/YR	344,925.000		
MAX. ANNUAL TEMPERATURE (T1)	DEG. F	90.108		
MAX. ANNUAL TEMPERATURE (T1)	DEG. R	550.108		
LIQ. V. P. @ MAX. TEMP.	PSIA	8.746		
SATURATION FACTOR (S, FROM AP-42, TABLE 5.2-1)		0.600		
VAPOR VOC WT%	%	99.9993%		
VAPOR MOL. WT. (FROM AP-42, TABLE 7.1-2, OR TANKS OUTPUT)	LBS/LB-MOLE	38.143		
TO AIR CONTROL DRE	%			
UNCONTROLLED LOADING EMISSIONS	LBS/MGAL	<u>12.46 X SAT. FAC. X MOL. WT. X MAX. V.P.</u>		
		MAX. TEMP.		
UN-CONTROLLED LOADING EMISSIONS	LBS/MGAL	4.533		
UN-CONTROLLED LOADING EMISSIONS	LBS/YR	LBS/MGAL X THROUGHPUT, MGAL/YR X VOC FRACT.	=	1,563.657
UN-CONTROLLED LOADING EMISSIONS	PPH	[MAX. LBS/YR / HRS/YR] X VOC WT. %	=	34.272
UN-CONTROLLED LOADING EMISSIONS	TPY	<u>MAX. PPH X OPERATION, HRS/YR</u>	=	0.782
		2,000 LBS/TON		
CONTROLLED LOADING EMISSIONS	PPH	MAX. PPH X (1 - DRE)	=	34.272
CONTROLLED LOADING EMISSIONS	TPY	MAX. TPY X (1 - DRE)	=	0.782

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:FLASH 1

SOURCE DESCRIPTION		
FIN	EPN	DESCRIPTION
HT1-FLASH	HT1-FLASH	HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)
HT2-FLASH	HT2-FLASH	HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)
HT3-FLASH	HT3-FLASH	HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)
HT4-FLASH	HT4-FLASH	HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)

SOURCE OPERATING PARAMETERS									
FIN	EPN	CONTENTS	THROUGHPUT BBLS/D	VOC CONTENT %	VOC FRACTION BBLS/YR	OPERATING TIME HRS/YR	MAX. ANNUAL TEMP. DEG. F	OZONE SEA. MAX. TEMP. DEG. F	
HT1-FLASH	HT1-FLASH	CRUDE/NATURAL G	5.65	100.00%	2,063.39	8,760.00	79.800	104.200	
HT2-FLASH	HT2-FLASH	CRUDE/NATURAL G	5.65	100.00%	2,063.39	8,760.00	79.800	104.200	
HT3-FLASH	HT3-FLASH	CRUDE/NATURAL G	5.65	100.00%	2,063.39	8,760.00	79.800	104.200	
HT4-FLASH	HT4-FLASH	CRUDE/NATURAL G	5.65	100.00%	2,063.39	8,760.00	79.800	104.200	

SOURCE OPERATING PARAMETERS									
FIN	EPN	DOWN STREAM PSIG	UPSTREAM PSIG	ESTIMATION METHOD	STOCK TANK API GRAVITY	FLASH VAPOR S.G.	VAPOR MOLE. WT. LBS/LB-MOLE	GOR SCF/BBL	
HT1-FLASH	HT1-FLASH	14.270	110.000	VASQUEZ-BEGGS	48.26	0.79	38.14		
HT2-FLASH	HT2-FLASH	14.270	110.000	VASQUEZ-BEGGS	48.26	0.79	38.14		
HT3-FLASH	HT3-FLASH	14.270	110.000	VASQUEZ-BEGGS	48.26	0.79	38.14		
HT4-FLASH	HT4-FLASH	14.270	110.000	VASQUEZ-BEGGS	48.26	0.79	38.14		

SOURCE OPERATING PARAMETERS									
FIN	EPN	UN-CONTROLLED EMISSION RATE LBS/YR	UN-CONTROLLED EMISSION RATE PPH	EMISSIONS TO ATMOSPHERE PPH	PRIMARY CONTROL	P. C. DRE %	SECONDARY CONTROL	S.C. DRE %	
HT1-FLASH	HT1-FLASH	7,531.42	0.860	1	TO ATMOSPHERE		TO ATMOSPHERE		
HT2-FLASH	HT2-FLASH	7,531.42	0.860	1	TO ATMOSPHERE		TO ATMOSPHERE		
HT3-FLASH	HT3-FLASH	7,531.42	0.860	1	TO ATMOSPHERE		TO ATMOSPHERE		
HT4-FLASH	HT4-FLASH	7,531.42	0.860	1	TO ATMOSPHERE		TO ATMOSPHERE		

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	STACK DIA. FT.	STACK HT. FT.	EXH. TEMP DEG. F	EXH. VEL. FPS	
HT1-FLASH	HT1-FLASH	14R	528,720	3,162,011	1.000	30.000	79.800	2.44E-03	
HT2-FLASH	HT2-FLASH	14R	528,720	3,162,011	1.000	30.000	79.800	2.44E-03	
HT3-FLASH	HT3-FLASH	14R	528,720	3,162,011	1.000	30.000	79.800	2.44E-03	
HT4-FLASH	HT4-FLASH	14R	528,720	3,162,011	1.000	30.000	79.800	2.44E-03	

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:FLASH 1

VAPOR PROPERTIES						
EPN	HT1-FLASH	HT2-FLASH	HT3-FLASH	HT4-FLASH		
CRITERIA POLLUTANTS	WT%	WT%	WT%	WT%	WT%	WT%
NOx						
CO						
SO2						
PM10						
PM2.5						
Pb						
VOC	74.9996%	74.9996%	74.9996%	74.9996%		
HAP POLLUTANTS						
BENZENE	0.1752%	0.1752%	0.1752%	0.1752%		
ETHYLBENZENE	0.0140%	0.0140%	0.0140%	0.0140%		
FORMALDEHYDE						
HEXANE-N	1.4896%	1.4896%	1.4896%	1.4896%		
METHANOL						
TOLUENE	0.1702%	0.1702%	0.1702%	0.1702%		
XYLENE-M	0.0700%	0.0700%	0.0700%	0.0700%		
XYLENE-O						
XYLENE-P						
H2S	0.0403%	0.0403%	0.0403%	0.0403%		
VOC(HAP)-u						
GHG POLLUTANTS						
METHANE						
CO2	24.9601%	24.9601%	24.9601%	24.9601%		
N2O						
TOTAL	100.0000%	100.0000%	100.0000%	100.0000%		

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:FLASH 1

EMISSIONS TO ATMOSPHERE								
EMISSIONS	UNITS	TOTAL	HT1-FLASH	HT2-FLASH	HT3-FLASH	HT4-FLASH		
NOx	PPH							
CO	PPH							
SO2	PPH							
PM10	PPH							
PM2.5	PPH							
Pb	PPH							
VOC	PPH	2.579	0.645	0.645	0.645	0.645		
HAP POLLUTANTS								
BENZENE	PPH	0.006	0.002	0.002	0.002	0.002		
ETHYLBENZENE	PPH	0.000	0.000	0.000	0.000	0.000		
FORMALDEHYDE	PPH							
HEXANE-N	PPH	0.051	0.013	0.013	0.013	0.013		
METHANOL	PPH							
TOLUENE	PPH	0.006	0.001	0.001	0.001	0.001		
XYLENE-M	PPH	0.002	0.001	0.001	0.001	0.001		
XYLENE-O	PPH							
XYLENE-P	PPH							
	PPH							
H2S	PPH	0.001	0.000	0.000	0.000	0.000		
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH							
CO2	PPH	0.858	0.215	0.215	0.215	0.215		
N2O	PPH							
	PPH							
	PPH							
TOTAL	PPH	3.439	0.860	0.860	0.860	0.860		
EMISSIONS	UNITS	TOTAL	HT1-FLASH	HT2-FLASH	HT3-FLASH	HT4-FLASH		
NOx	TPY							
CO	TPY							
SO2	TPY							
PM10	TPY							
PM2.5	TPY							
Pb	TPY							
VOC	TPY	11.297	2.824	2.824	2.824	2.824		
HAP POLLUTANTS								
BENZENE	TPY	0.026	0.007	0.007	0.007	0.007		
ETHYLBENZENE	TPY	0.002	0.001	0.001	0.001	0.001		
FORMALDEHYDE	TPY							
HEXANE-N	TPY	0.224	0.056	0.056	0.056	0.056		
METHANOL	TPY							
TOLUENE	TPY	0.026	0.006	0.006	0.006	0.006		
XYLENE-M	TPY	0.011	0.003	0.003	0.003	0.003		
XYLENE-O	TPY							
XYLENE-P	TPY							
	TPY							
	TPY							
H2S	TPY	0.006	0.002	0.002	0.002	0.002		
VOC(HAP)-u	TPY							
GHG POLLUTANTS								
METHANE	TPY							
CO2	TPY	3.760	0.940	0.940	0.940	0.940		
N2O	TPY							
	TPY							
	TPY							
TOTAL	TPY	15.063	3.766	3.766	3.766	3.766		

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
PI-7-CERT Registration
3/11/2024
FLASH 1

EXAMPLE CALCULATIONS:

CALCULATE VOC EMISSIONS:

EPN		HT1-FLASH			
COMOUND NAME		CRUDE/NATURAL GAS			
VOC CONTENT	%	100.0000%			
OPERATION	HRS/YR	8,760.000			
THROUGHPUT	BBLS/YR	2,063.391			
THROUGHPUT (VOC FRACTION)	BBLS/YR	THROUGHPUT, BBLS/YR	X	VOC CONTENT %	= 2,063.391
VAPOR VOC WT%	%	74.9996%			
MOLAR VOLUME	SCF/MOLE	385.462			
VAPOR MOL. WT. (FROM AP-42, TABLE 7.1-2, OR TANKS OUTPUT)	LBS/LB-MOLE	38.143			
GOR	SCF/BBL				
TO ATMOSPHERE CONTROL DRE	%				

UNCONTROLLED EMISSIONS

LBS/YR

GOR, SCF/BBL

X

THROUGHPUT, BBLS/YR

X

MOL. WT., LSB/LB-MOLE

X

VOC WT.%

=

MOLAR VOLUME, SCF/MOLE

UNCONTROLLED EMISSIONS	PPH	LBS/YR / OPERATION, HRS/YR	=	
UNCONTROLLED EMISSIONS	TPY	LBS/YR / 2,000 LBS/TON	=	
			=	
CONTROLLED EMISSIONS	PPH	MAX. PPH X (1 - DRE)	=	0.00
CONTROLLED EMISSIONS	TPY	MAX. TPY X (1 - DRE)	=	0.00

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:BLOWDOWNS / MSS

SOURCE DESCRIPTION		
FIN	EPN	DESCRIPTION
MSS 1	MSS 1	MSS ACTIVITY; VAPORS VENTED TO ATMOSPHERE DURING MSS ACTIVITIES; 106.359
MSS 2	MSS 2	MSS ACTIVITY; STORAGE TANK DE-GASSING DURING MAINTENANCE ACTIVITY; ASSUME DE-GASSING 1 TANK/YEAR; VENTS TO ATMOSPHERE; 106.359
MSS 3	MSS 3	MSS ACTIVITIES; MISC. ABRASIVE BLASTING/COATING ACTIVITIES; VENTS TO ATMOSPHERE; AREA SOURCE; 106.359
VENTING 1	VENTING 1	PNEUMATIC DEVICE; VENTING TO ATMOSPHERE; 106.352(l)

SOURCE OPERATING PARAMETERS									
FIN	EPN	CONTENTS	HEAT CONTENT BTU/SCF	RATE SCF/HR	RATE MMSCF/YR	DURATION HRS/YR	VAPOR MOLE. WT. LBS/LB-MOLE		
MSS 1	MSS 1	NATURAL GAS	1,318.00	25.00	0.0075	300.00	1.52		
MSS 2	MSS 2	NATURAL GAS	1,318.00	5,620.00	0.0056	1.00	1.52		
MSS 3	MSS 3	BLASTING/COATING	3,071.00	1,200.00	0.1152	96.00	88.41		
VENTING 1	VENTING 1	NATURAL GAS	1,318.00	2.25	0.0049	2,190.00	1.52		

SOURCE OPERATING PARAMETERS									
FIN	EPN	UN-CONTROLLED EMISSION RATE PPH	EMISSIONS TO ATMOSPHERE PPH	PRIMARY CONTROL	P. C. DRE %	SECONDARY CONTROL			
MSS 1	MSS 1	0.099	0.099	TO ATMOSPHERE	NONE	TO ATMOSPHERE			
MSS 2	MSS 2	22.211	22.203	TO ATMOSPHERE	NONE	TO ATMOSPHERE			
MSS 3	MSS 3	275.224	2.989	TO ATMOSPHERE	NONE	TO ATMOSPHERE			
VENTING 1	VENTING 1	0.009	0.009	TO ATMOSPHERE	NONE	TO ATMOSPHERE			

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	STACK DIA. FT.	STACK HT. FT.	EXH. TEMP DEG. F	EXH. VEL. FPS	
MSS 1	MSS 1	14R	528,720	3,162,011	0.500	20.00	90.11	0.001	
MSS 2	MSS 2	14R	528,720	3,162,011	0.500	20.00	90.11	0.257	
MSS 3	MSS 3	14R	528,720	3,162,011	0.250	3.00	90.11	0.077	
VENTING 1	VENTING 1	14R	528,720	3,162,011	0.250	3.00	90.11	0.000	

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:BLOWDOWNS / MSS

VAPOR PROPERTIES						
EPN	MSS 1	MSS 2	MSS 3	VENTING 1		
CRITERIA POLLUTANTS	WT%	WT%	WT%	WT%	WT%	WT%
NOx						
CO						
SO2						
PM10			4.6874%			
PM2.5			4.6874%			
Pb						
VOC	74.9996%	74.9996%	99.9991%	74.9996%		
HAP POLLUTANTS						
BENZENE	0.1752%	0.1752%	13.2529%	0.1752%		
ETHYLBENZENE	0.0140%	0.0140%	18.0122%	0.0140%		
FORMALDEHYDE						
HEXANE-N	1.4896%	1.4896%	14.6218%	1.4896%		
METHANOL						
TOLUENE	0.1702%	0.1702%	15.6317%	0.1702%		
XYLENE-M	0.0700%	0.0700%	18.0122%	0.0700%		
XYLENE-O						
XYLENE-P						
H2S	0.0403%	0.0403%	0.0009%	0.0403%		
VOC(HAP)-u						
GHG POLLUTANTS						
METHANE						
CO2						
N2O						
TOTAL	75.0399%	75.0399%	100.0000%	75.0399%		

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

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WORKSHEET:BLOWDOWNS / MSS

EMISSIONS TO ATMOSPHERE								
EMISSIONS	UNITS	TOTAL	MSS 1	MSS 2	MSS 3	VENTING 1		
NOx	PPH							
CO	PPH							
SO2	PPH							
PM10	PPH	0.062			0.062			
PM2.5	PPH	0.062			0.062			
Pb	PPH							
VOC	PPH	19.728	0.074	16.658	2.989	0.007		
HAP POLLUTANTS								
BENZENE	PPH	0.506	0.000	0.039	0.467	0.000		
ETHYLBENZENE	PPH	0.470	0.000	0.003	0.467	0.000		
FORMALDEHYDE	PPH							
HEXANE-N	PPH	0.799	0.001	0.331	0.467	0.000		
METHANOL	PPH							
TOLUENE	PPH	0.505	0.000	0.038	0.467	0.000		
XYLENE-M	PPH	0.483	0.000	0.016	0.467	0.000		
XYLENE-O	PPH							
XYLENE-P	PPH							
	PPH							
H2S	PPH	0.000	0.000	0.000	0.000	0.000		
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH							
CO2	PPH	5.571	0.025	5.544		0.002		
N2O	PPH							
	PPH							
	PPH							
TOTAL	PPH	25.299	0.099	22.203	2.989	0.009		
EMISSIONS	UNITS	TOTAL	MSS 1	MSS 2	MSS 3	VENTING 1		
NOx	TPY							
CO	TPY							
SO2	TPY							
PM10	TPY	0.003			0.003			
PM2.5	TPY	0.003			0.003			
Pb	TPY							
VOC	TPY	0.170	0.011	0.008	0.143	0.007		
HAP POLLUTANTS								
BENZENE	TPY	0.022	0.000	0.000	0.022	0.000		
ETHYLBENZENE	TPY	0.022	0.000	0.000	0.022	0.000		
FORMALDEHYDE	TPY							
HEXANE-N	TPY	0.023	0.000	0.000	0.022	0.000		
METHANOL	TPY							
TOLUENE	TPY	0.022	0.000	0.000	0.022	0.000		
XYLENE-M	TPY	0.022	0.000	0.000	0.022	0.000		
XYLENE-O	TPY							
XYLENE-P	TPY							
	TPY							
	TPY							
H2S	TPY	0.000	0.000	0.000	0.000	0.000		
VOC(HAP)-u	TPY							
GHG POLLUTANTS								
METHANE	TPY							
CO2	TPY	0.009	0.004	0.003		0.002		
N2O	TPY							
	TPY							
	TPY							
TOTAL	TPY	0.179	0.015	0.011	0.143	0.010		

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
PI-7-CERT Registration
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BLOWDOWNS / MSS

EXAMPLE CALCULATIONS:
CALCULATE VOC EMISSIONS:

EPN		MSS 1		
BLOWDOWN RATE	SCF/HR	25.000		
BLOWDOWN RATE	MMSCF/YR	0.008		
DURATION	HRS/YR	300.000		
VAPOR MOLE. WT.	LBS/LB-MOLE	1.523		
MOLAR VOLUME	SCF/MOLE	385.462		
VAPOR VOC CONTENT	WT%	75.000%		
PRIMARY CONTROL DRE	%	NONE		
UN-CONTROLLED EMISSIONS	PPH	<div>BLOWDOWN RATE, SCF/HR X MOL. WT, LBS/LB-MOLE X VOC WT% MOLAR VOLUME, SCF/MOLE</div>	=	0.074
UN-CONTROLLED EMISSIONS	TPY	<div>PPH X OPERATION, HRS/YR 2,000 LBS/TON</div>	=	0.011
CONTROLLED EMISSIONS	PPH	MAX. PPH X (1 - DRE)	=	#VALUE!
CONTROLLED EMISSIONS	TPY	MAX. TPY X (1 - DRE)	=	#VALUE!

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

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WORKSHEET:FUGITIVES 1 - 3

SOURCE DESCRIPTION / OPERATING PARAMETERS						
FIN	EPN	DESCRIPTION	SOURCE TYPE	AVE. ANNUAL TEMP. DEG. F	DURATION HRS/YR	
FUG	FUG	SITE FUGITIVE EMISSIONS; 106.352(l)	OIL & GAS	90.11	8,760.00	

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	FUG. LENGTH FT	FUG. WIDTH FT	FUG. HEIGHT FT		
FUG	FUG	14R	528,720	3,162,011	300.00	300.00	3.00		

EPN	SERVICE	LDAR PROGRAM	EPN	SERVICE	LDAR PROGRAM	EPN	SERVICE	LDAR PROGRAM
FUG	LIGHT-LIQUID COMPONENTS	NONE			NONE			NONE
COMPONENT TYPE	COUNT	EMISS. FACTOR PPH/UNIT	COMPONENT TYPE	COUNT	EMISS. FACTOR PPH/UNIT	COMPONENT TYPE	COUNT	EMISS. FACTOR PPH/UNIT
CONNECTORS-LIGHT LIQUID	108	0.000463						
FLANGES-LIGHT LIQUID	72	0.000243						
PUMPS-LIGHT LIQUID	4	0.028660						
RELIEF VALVES-LIGHT LIQUID	4	0.016500						
VALVES-LIGHT LIQUID	72	0.005500						
EPN	EMISSIONS PPH	EMISSIONS TPY	EPN	EMISSIONS PPH	EMISSIONS TPY	EPN	EMISSIONS PPH	EMISSIONS TPY
FUG	0.644	2.821						

EPN	SERVICE	LDAR PROGRAM	EPN	SERVICE	LDAR PROGRAM	EPN	SERVICE	LDAR PROGRAM
FUG	NATURAL GAS COMPONENTS	NONE		LIGHT-LIQUID COM	NONE		LIGHT-LIQUID COM	NONE
COMPONENT TYPE	COUNT	EMISS. FACTOR PPH/UNIT	COMPONENT TYPE	COUNT	EMISS. FACTOR PPH/UNIT	COMPONENT TYPE	COUNT	EMISS. FACTOR PPH/UNIT
CONNECTORS-GAS	108	0.000440						
FLANGES-GAS	72	0.000860						
RELIEF VALVES-GAS	12	0.019400						
VALVES -GAS	72	0.009920						
COMPRESSORS-GAS		0.019400						
EPN	EMISSIONS PPH	EMISSIONS TPY	EPN	EMISSIONS PPH	EMISSIONS TPY	EPN	EMISSIONS PPH	EMISSIONS TPY
FUG	1.056	4.627						

EPN	SERVICE	LDAR PROGRAM	EPN	SERVICE	LDAR PROGRAM	EPN	SERVICE	LDAR PROGRAM
FUG		NONE			NONE			NONE
COMPONENT TYPE	COUNT	EMISS. FACTOR PPH/UNIT	COMPONENT TYPE	COUNT	EMISS. FACTOR PPH/UNIT	COMPONENT TYPE	COUNT	EMISS. FACTOR PPH/UNIT
EPN	EMISSIONS PPH	EMISSIONS TPY	EPN	EMISSIONS PPH	EMISSIONS TPY	EPN	EMISSIONS PPH	EMISSIONS TPY
FUG								

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:FUGITIVES 1

VAPOR PROPERTIES / EMISSIONS									
EPN	FUG								
SERVICE	LIGHT-LIQUID COMPONENTS			NATURAL GAS COMPONENTS					
CRITERIA	WT%	EMISSIONS	EMISSIONS	WT%	EMISSIONS	EMISSIONS	WT%	EMISSIONS	EMISSIONS
POLLUTANTS		PPH	TPY		PPH	TPY		PPH	TPY
NOx									
CO									
SO2									
PM10									
PM2.5									
Pb									
VOC	99.9993%		0.644	99.9993%	1.056	4.627			
HAP POLLUTANTS									
BENZENE	0.0031%		0.000	0.0031%	0.000	0.000			
ETHYLBENZENE	0.0002%		0.000	0.0002%	0.000	0.000			
FORMALDEHYDE									
HEXANE-N	0.0266%		0.000	0.0266%	0.000	0.001			
METHANOL									
TOLUENE	0.0030%		0.000	0.0030%	0.000	0.000			
XYLENE-M	0.0012%		0.000	0.0012%	0.000	0.000			
XYLENE-O									
XYLENE-P									
H2S	0.0007%		0.000	0.0007%	0.000	0.000			
VOC(HAP)-u									
GHG POLLUTANTS									
METHANE									
CO2									
N2O									
TOTALS	100.0000%		0.644	100.0000%	1.056	4.627			

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:FUGITIVES 1

TOTAL EMISSIONS (ALL COMPONENT SERVICE)		
EPN	FUG	
PPH	TPY	
NOx		
CO		
SO2		
PM10		
PM2.5		
Pb		
VOC	1.056	5.271
HAP POLLUTANTS		
BENZENE	0.000	0.000
ETHYLBENZENE	0.000	0.000
FORMALDEHYDE		
HEXANE-N	0.000	0.001
METHANOL		
TOLUENE	0.000	0.000
XYLENE-M	0.000	0.000
XYLENE-O		
XYLENE-P		
H2S	0.000	0.000
VOC(HAP)-u		
GHG POLLUTANTS		
METHANE		
CO2		
N2O		
	1.056	5.272
TOTAL	1.057	5.273

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC

Corner S Ranch Mcm B Pad

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DIESEL ENGINES 1

SOURCE DESCRIPTION		
FIN	EPN	DESCRIPTION
ENG3	ENG3	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED
ENG4	ENG4	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED
ENG5	ENG5	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED
ENG6	ENG6	GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED

SOURCE OPERATING PARAMETERS					
FIN	EPN	MAKE	MODEL	ENGINE TYPE	FUEL TYPE
ENG3	ENG3	HONDA	GX160	4S-RB	GASOLINE
ENG4	ENG4	HONDA	GX160	4S-RB	GASOLINE
ENG5	ENG5	HONDA	GX160	4S-RB	GASOLINE
ENG6	ENG6	HONDA	GX160	4S-RB	GASOLINE

SOURCE OPERATING PARAMETERS									
FIN	EPN	RATING BHP	RUN-TIME HRS/YR	FUEL USE BTU/HP-HR	FUEL HEAT BTU/GAL	FUEL USE GAL/HR	FUEL USE GAL/YR	HEAT INPUT MMBTU/HR	HEAT INPUT MMBTU/YR
ENG3	ENG3	4.800	8,760.0	7,000.000	132,000.000	0.255	2,229.818	0.034	294.336
ENG4	ENG4	4.800	8,760.0	7,000.000	132,000.000	0.255	2,229.818	0.034	294.336
ENG5	ENG5	4.800	8,760.0	7,000.000	132,000.000	0.255	2,229.818	0.034	294.336
ENG6	ENG6	4.800	8,760.0	7,000.000	132,000.000	0.255	2,229.818	0.034	294.336

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	STACK DIA. FT.	STACK HT. FT.	EXH. TEMP DEG. F	EXH. VEL. FPS	
ENG3	ENG3	14R	528,720.0	3,162,010.6	0.083	2.000	1,200.000	3,080.361	
ENG4	ENG4	14R	528,720.0	3,162,010.6	0.083	2.000	1,200.000	3,080.361	
ENG5	ENG5	14R	528,720.0	3,162,010.6	0.083	2.000	1,200.000	2,373.398	
ENG6	ENG6	14R	528,720.0	3,162,010.6	0.083	2.000	1,200.000	2,373.398	

COMPANY: Ineos USA Oil & Gas LLC
SITE: Corner S Ranch Mcm B Pad
ACTION: PI-7-CERT Registration
DATE: 3/11/2024
WORKSHEET: DIESEL ENGINES 1

EMISSION FACTORS		UNITS	TOTAL	ENG3	ENG4	ENG5	ENG6		
NOx		G/HP-HR		6.615	6.615	6.615	6.615		
CO		G/HP-HR		267.435	267.435	267.435	267.435		
SO2		G/HP-HR		0.267	0.267	0.267	0.267		
PM10		G/HP-HR		0.318	0.318	0.318	0.318		
PM2.5		G/HP-HR							
Pb		G/HP-HR							
VOC		G/HP-HR		6.600	6.600	6.600	6.600		
HAP POLLUTANTS									
BENZENE		G/HP-HR		0.003	0.003	0.003	0.003		
ETHYLBENZENE		G/HP-HR							
FORMALDEHYDE		G/HP-HR		1.890	1.890	1.890	1.890		
HEXANE-N		G/HP-HR							
METHANOL		G/HP-HR							
TOLUENE		G/HP-HR		0.001	0.001	0.001	0.001		
XYLENE-M		G/HP-HR		0.001	0.001	0.001	0.001		
XYLENE-O		G/HP-HR							
XYLENE-P		G/HP-HR							
		G/HP-HR							
		G/HP-HR							
VOC(HAP)-u		G/HP-HR							
GHG POLLUTANTS									
METHANE		G/HP-HR		0.000	0.000	0.000	0.000		
CO2		G/HP-HR		488.981	488.981	488.981	488.981		
N2O		G/HP-HR							
		G/HP-HR							
		G/HP-HR							

NOTES:

1. AP-42 EMISSION FACTORS IN LBS/MMBTU CONVERTED TO GRAMS/HP-HR AS FOLLOWS (USING NOX AS AN EXAMPLE):

NOTE: THIS IS AN EXAMPLE CALCULATION; THE ACTUAL NOX E.F. USED MAY HAVE BEEN PROVIDED BY THE MANUFACTURER IN GRAMS/HP-HR.

ENGINE TYPE		4S-RB	
CONTROL DRE	%	0.00%	
AP-42 NOX E.F.	LBS/MMBTU	1.630	PRE-CONTROL
AP-42 NOX E.F.	LBS/MMBTU	1.630	POST-CONTROL
ENGINE FUEL USE	BTU/HP-HR	7,000.000	
LBS TO GRAMS CONVERSION	GRAMS/LB	453.600	
AP-42 NOX E.F.	GRAMS/HP-HR	=	<u>AP-42 E.F., LBS/MMBTU X ENGINE FUEL USE, BTU/HP-HR X 453.6 GRAMS/LB</u>
			1,000,000 BTU/MMBTU
AP-42 NOX E.F.	GRAMS/HP-HR	=	5.176 PRE-CONTROL
AP-42 NOX E.F. SUPPLIED BY MANUFACTURER	GRAMS/HP-HR	=	6.615 PRE-CONTROL
AP-42 NOX E.F.	GRAMS/HP-HR	=	5.176 POST-CONTROL
AP-42 NOX E.F. SUPPLIED BY MANUFACTURER	GRAMS/HP-HR	=	6.615 POST-CONTROL

COMPANY:Ineos USA Oil & Gas LLC

SITE:Corner S Ranch Mcm B Pad

ACTION:PI-7-CERT Registration

DATE:3/11/2024

WORKSHEET:DIESEL ENGINES 1

EMISSIONS TO ATMOSPHERE								
EMISSIONS	UNITS	TOTAL	ENG3	ENG4	ENG5	ENG6		
NOx	PPH	0.280	0.070	0.070	0.070	0.070		
CO	PPH	11.320	2.830	2.830	2.830	2.830		
SO2	PPH	0.011	0.003	0.003	0.003	0.003		
PM10	PPH	0.013	0.003	0.003	0.003	0.003		
PM2.5	PPH							
Pb	PPH							
VOC	PPH	0.279	0.070	0.070	0.070	0.070		
HAP POLLUTANTS								
BENZENE	PPH	0.000	0.000	0.000	0.000	0.000		
ETHYLBENZENE	PPH							
FORMALDEHYDE	PPH	0.080	0.020	0.020	0.020	0.020		
HEXANE-N	PPH							
METHANOL	PPH							
TOLUENE	PPH	0.000	0.000	0.000	0.000	0.000		
XYLENE-M	PPH	0.000	0.000	0.000	0.000	0.000		
XYLENE-O	PPH							
XYLENE-P	PPH							
	PPH							
	PPH							
	PPH							
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH	0.000	0.000	0.000	0.000	0.000		
CO2	PPH	20.698	5.174	5.174	5.174	5.174		
N2O	PPH							
	PPH							
	PPH							
TOTALS	PPH	4,000.000	1,000.000	1,000.000	1,000.000	1,000.000		
EMISSIONS	UNITS	TOTAL	ENG3	ENG4	ENG5	ENG6		
NOx	TPY	1.226	0.307	0.307	0.307	0.307		
CO	TPY	49.582	12.395	12.395	12.395	12.395		
SO2	TPY	0.049	0.012	0.012	0.012	0.012		
PM10	TPY	0.059	0.015	0.015	0.015	0.015		
PM2.5	TPY							
Pb	TPY							
VOC	TPY	1.224	0.306	0.306	0.306	0.306		
HAP POLLUTANTS								
BENZENE	TPY	0.001	0.000	0.000	0.000	0.000		
ETHYLBENZENE	TPY							
FORMALDEHYDE	TPY	0.350	0.088	0.088	0.088	0.088		
HEXANE-N	TPY							
METHANOL	TPY							
TOLUENE	TPY	0.000	0.000	0.000	0.000	0.000		
XYLENE-M	TPY	0.000	0.000	0.000	0.000	0.000		
XYLENE-O	TPY							
XYLENE-P	TPY							
	TPY							
	TPY							
	TPY							
VOC(HAP)-u	TPY							
GHG POLLUTANTS								
METHANE	TPY	0.000	0.000	0.000	0.000	0.000		
CO2	TPY	90.655	22.664	22.664	22.664	22.664		
N2O	TPY							
	TPY							
	TPY							
TOTALS	TPY	628.319	157.080	157.080	157.080	157.080		

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC

Corner S Ranch Mcm B Pad

PI-7-CERT Registration

3/11/2024

DIESEL ENGINES 1

EXAMPLE CALCULATIONS:
CALCULATE NOX EMISSIONS:

EPN		ENG3
HP RATING	BHP	4.800
FUEL USE	BTU/HP-HR	7,000.000
FUEL HEAT CONTENT	BTU/SCF	132,000.000
RUN TIME	HRS/YR	8,760.000
LBS TO GRAMS CONVERSION	GRAMS/LB	453.600
NOX E.F.	GRAMS/HP-HR	6.615
NOX EMISSIONS=	PPH	<div><div>ENGINE RATING, HP X NOX E.F., GRAMS/HP-HR</div><div>453.6 GRAMS/LB</div></div>
NOX EMISSIONS=	PPH	0.070
NOX EMISSIONS=	TPY	<div><div>NOX EMISSIONS, PPH X RUN TIME, HRS/YR</div><div>2,000 LBS/TON</div></div>
NOX EMISSIONS=	TPY	0.307

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC

Corner S Ranch Mcm B Pad

PI-7-CERT Registration

3/11/2024

COMBUSTION CONTROL 1 - 6

SOURCE DESCRIPTION		
FIN	EPN	DESCRIPTION
FLARE1	FLARE1	REMOVED FROM SERVICE

SOURCE OPERATING PARAMETERS									
FIN	EPN	TYPE	DRE C1 - C3	DRE C4+	DRE H2S	ASSIST FUEL HEAT INPUT MMBTU/HR	PILOT FUEL HEAT INPUT MMBTU/HR	WASTE GAS HEAT INPUT MMBTU/HR	TOTAL HEAT INPUT MMBTU/HR
FLARE1	FLARE1	COMBUSTOR							

SOURCE OPERATING PARAMETERS									
FIN	EPN	RUN-TIME HRS/YR	WASTE GAS HEAT CONTENT BTU/SCF	FUEL/ASSIST GAS HEAT CONTENT BTU/SCF	COMBINED HEAT CONTENT BTU/SCF				
FLARE1	FLARE1								

SOURCE STACK PARAMETERS									
FIN	EPN	ZONE	UTM E	UTM N	STACK DIA. FT.	STACK HT. FT.	EXHST. TEMP. DEG. F	VELOCITY FPS	
FLARE1	FLARE1								

EMISSION FACTORS		UNITS		FLARE1					
NOx		LBS/MMBTU		0.064					
CO		LBS/MMBTU		0.550					
SO2		LBS/MMBTU							
PM10		LBS/MMBTU							
PM2.5		LBS/MMBTU							

NOTES:

1. AP-42 EMISSION FACTORS ADJUSTED FOR FUEL/VAPOR HEAT CONTENT.

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC

Corner S Ranch Mcm B Pad

PI-7-CERT Registration

3/11/2024

COMBUSTION CONTROL 1 - 6

COMBINED ASSIST/FUEL/WASTE GAS INPUT								
VAPOR INPUT	UNITS	TOTAL	FLARE1					
NOx	PPH							
CO	PPH							
SO2	PPH							
PM10	PPH							
PM2.5	PPH							
H2S	PPH							
VOC	PPH							
HAP POLLUTANTS								
BENZENE	PPH							
ETHYLBENZENE	PPH							
FORMALDEHYDE	PPH							
HEXANE-N	PPH							
METHANOL	PPH							
TOLUENE	PPH							
XYLENE-M	PPH							
XYLENE-O	PPH							
XYLENE-P	PPH							
	PPH							
	PPH							
H2S	PPH							
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH							
CO2	PPH							
N2O	PPH							
	PPH							
	PPH							
TOTALS	PPH							

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
PI-7-CERT Registration
3/11/2024
COMBUSTION CONTROL 1 - 6

EMISSIONS TO ATMOSPHERE	UNITS	TOTAL	FLARE1					
NOx	PPH							
CO	PPH							
SO2	PPH							
PM10	PPH							
PM2.5	PPH							
H2S	PPH							
VOC	PPH							
HAP POLLUTANTS								
BENZENE	PPH							
ETHYLBENZENE	PPH							
FORMALDEHYDE	PPH							
HEXANE-N	PPH							
METHANOL	PPH							
TOLUENE	PPH							
XYLENE-M	PPH							
XYLENE-O	PPH							
XYLENE-P	PPH							
	PPH							
	PPH							
	PPH							
VOC(HAP)-u	PPH							
GHG POLLUTANTS								
METHANE	PPH							
CO2	PPH							
N2O	PPH							
	PPH							
	PPH							
TOTALS	PPH							
EMISSIONS TO ATMOSPHERE	UNITS	TOTAL	FLARE1					
NOx	TPY							
CO	TPY							
SO2	TPY							
PM10	TPY							
PM2.5	TPY							
H2S	TPY							
VOC	TPY							
HAP POLLUTANTS								
BENZENE	TPY							
ETHYLBENZENE	TPY							
FORMALDEHYDE	TPY							
HEXANE-N	TPY							
METHANOL	TPY							
TOLUENE	TPY							
XYLENE-M	TPY							
XYLENE-O	TPY							
XYLENE-P	TPY							
	TPY							
	TPY							
	TPY							
VOC(HAP)-u	TPY							
GHG POLLUTANTS								
METHANE	TPY							
CO2	TPY							
N2O	TPY							
	TPY							
	TPY							
TOTALS	TPY							

COMPANY:

SITE:

ACTION:

DATE:

WORKSHEET:

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
PI-7-CERT Registration
3/11/2024
COMBUSTION CONTROL 1 - 6

EXAMPLE CALCULATIONS:
AS AN EXAMPLE, CALCULATE THE NOX EMISSIONS FROM THE COMBUSTION OF THE COMBINED GAS STREAM.
USE THE AP-42 NOX EMISSION FACTOR FOR NATURAL GAS COMBUSTION

EPN		FLARE1
NOX EMISSION FACTOR	LBS/MMBTU	0.064
HEAT INPUT	MMBTU/HR	
OPERATION	HRS/YR	
NOX EMISSIONS	PPH	NOX E.F., LBS/MMBTU X HEAT INPUT, MMBTU/HR
NOX EMISSIONS	PPH	
NOX EMISSIONS	TPY	<div><div>NOX EMISSIONS, PPH X OPERATION, HRS/YR</div><div>2,000 LBS/TON</div></div>
NOX EMISSIONS	TPY	

AS AN EXAMPLE, CALCULATE BENZENE EMISSIONS FROM THE COMBUSTION OF THE COMBINED GAS STREAM:

EPN		FLARE1
BENZENE INPUT	PPH	
CONTROL DRE	%	
BENZENE EMISSIONS	PPH	BENZENE INPUT, PPH X (1 - DRE,%)
BENZENE EMISSIONS	PPH	
BENZENE EMISSIONS	TPY	<div><div>BENZENE EMISSIONS, PPH X OPERATION, HRS/YR</div><div>2,000 LBS/TON</div></div>
BENZENE EMISSIONS	TPY	

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
Fowlerton, Mc Mullen County, Texas
PI-7-CERT Registration

2.5 NAAQS Review

NAAQS modeling not required

2.6 Regulatory Analysis

The Corner S Ranch Mcm B Pad facility as presented in this documentation meets the TCEQ requirements for each PBR referenced in **Section 2.1**. Checklists have been provided in **Section 2.9**.

- The site will comply with all rules and regulations of the TCEQ and with the intent of the Texas Clean Air Act (TCAA), including protection of public health and property. All emissions control equipment will be maintained in good condition and properly operated during plant operation; and,

The following state/federal regulations are applicable:

Regulation	Description	Applicable	Reason
TITLE V APPLICABILITY			
30 TAC 122	Title V Site	NO	Not applicable. Emissions below Title V major source status.
APPLICABLE NSPS (40 CFR 60)			
NSPS 60.18	Flares	NO	Not applicable. No on-site flares.
NSPS GG	Turbines	NO	Not applicable. No on-site turbines.
NSPS JJJJ	Engines	YES	Applicable. Engines will comply with MACT <u>ZZZZ</u> .
NSPS KKKK	Turbines	NO	Not applicable. No on-site turbines.
NSPS OOOOa	Tanks	YES	Applicable. VOC <6.0 tpy; comply with record-keeping.
APPLICABLE MACT (40 CFR 63)			
MACT HH	TEG Unit	NO	Not applicable. No on-site TEG units
MACT ZZZZ	Engines	YES	Applicable. Engines will comply with MACT <u>ZZZZ</u> .

2.7 Analytical Data

Representative analytical sampling was used to evaluate emissions in this document. Analytiucal samples were taken from the same area and geological formation as this facility.

LAB ANALYSES**Certificate of Analysis**

Number: 1030-23070954-002A

Houston Laboratories

8820 Interchange Drive

Houston, TX 77054

Phone 713-660-0901

Eric Knappe
INEOS USA Oil & Gas LLC
1164 FM 2361
Carrizo Springs, TX 78834

Aug. 03, 2023

Station Name: Snowmass HC1 DIM A 2H
Sample Point: Gas Meter
Cylinder No: 4030-003659
Analyzed: 07/31/2023 20:47:08 by EKK

Sampled By:
Sample Of: Gas Spot
Sample Date: 07/27/2023 11:00
Sample Conditions: 134 psig, @ 94.1 °F
Method: GPA 2286

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	0.178	0.225		GPM TOTAL C2+	6.854
Methane	74.756	54.155		GPM TOTAL C3+	3.235
Carbon Dioxide	0.864	1.717		GPM TOTAL IC5+	0.588
Ethane	13.513	18.348	3.619		
Propane	6.393	12.730	1.764		
Iso-Butane	0.843	2.213	0.276		
n-Butane	1.923	5.047	0.607		
Iso-Pentane	0.424	1.381	0.155		
n-Pentane	0.458	1.492	0.166		
Hexanes	0.337	1.325	0.139		
Heptanes Plus	0.311	1.367	0.128		
	100.000	100.000	6.854		

Calculated Physical Properties	Total	C7+
Relative Density Real Gas	0.7673	3.4074
Calculated Molecular Weight	22.15	98.69
Compressibility Factor	0.9960	

GPA 2172 Calculation:**Calculated Gross BTU per ft³ @ 14.696 psia & 60°F**

Real Gas Dry BTU	1318	5254
Water Sat. Gas Base BTU	1295	5162

Comments: Hydrogen Sulfide Field Analysis by Stain Tube = 12 ppm(v).

Data reviewed by: Patrick Weber, Analyst

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

LAB ANALYSES (CONTINUED)



Certificate of Analysis

Number: 1030-23070954-002A

Houston Laboratories
8820 Interchange Drive
Houston, TX 77054
Phone 713-660-0901

Eric Knappe
INEOS USA Oil & Gas LLC
1164 FM 2361
Carrizo Springs, TX 78834

Aug. 03, 2023

Station Name: Snowmass HC1 DIM A 2H
Sample Point: Gas Meter
Cylinder No: 4030-003659
Analyzed: 07/31/2023 20:47:08 by EKK

Sampled By:
Sample Of: Gas Spot
Sample Date: 07/27/2023 11:00
Sample Conditions: 134 psig, @ 94.1 °F
Method: GPA 2286

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia	
Nitrogen	0.178	0.225		
Methane	74.756	54.155		
Carbon Dioxide	0.864	1.717		
Ethane	13.513	18.348	3.619	
Propane	6.393	12.730	1.764	
Iso-Butane	0.843	2.213	0.276	
n-Butane	1.923	5.047	0.607	
Iso-Pentane	0.424	1.381	0.155	
n-Pentane	0.458	1.492	0.166	
i-Hexanes	0.206	0.795	0.084	
n-Hexane	0.131	0.530	0.055	
Benzene	0.017	0.060	0.005	
Cyclohexane	0.028	0.106	0.010	
i-Heptanes	0.115	0.480	0.047	
n-Heptane	0.035	0.158	0.016	
Toluene	0.014	0.059	0.005	
i-Octanes	0.062	0.287	0.027	
n-Octane	0.008	0.043	0.004	
Ethylbenzene	0.001	0.007	NIL	
Xylenes	0.005	0.030	0.002	
i-Nonanes	0.014	0.067	0.006	
n-Nonane	0.002	0.014	0.001	
i-Decanes	0.007	0.036	0.003	
n-Decane	0.001	0.004	NIL	
Undecanes	0.002	0.016	0.002	
Dodecanes	NIL	NIL	NIL	
Tridecanes	NIL	NIL	NIL	
Tetradecanes Plus	NIL	NIL	NIL	
	100.000	100.000	6.854	

GPM TOTAL C2+ 6.854

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
Fowlerton, Mc Mullen County, Texas
PI-7-CERT Registration

2.8 Maps



21 WATERWAY AVENUE
SUITE 300
THE WOODLANDS, TX 77380

TEL: 832-244-2486

WEBSITE: WWW.ENTECHSERVICE.COM

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
PI-7-CERT Registration

DATE: 3/11/2024

SITE LOCATION MAP

INEOS

CORNER S RANCH MCM B PAD
SITE LOCATION MAP

Legend

CORNER S RANCH MCM B PAD

Fowlerton

Google Earth

6 mi





21 WATERWAY AVENUE
SUITE 300
THE WOODLANDS, TX 77380

TEL: 832-244-2486

WEBSITE: WWW.ENTECHSERVICE.COM

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
PI-7-CERT Registration

DATE: 3/11/2024

SITE PLOT PLAN

INEOS

CORNER S RANCH MCM B PAD
SITE PLOT PLAN

Legend

CORNER S RANCH MCM B PAD

Google Earth



300 ft

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
Fowlerton, Mc Mullen County, Texas
PI-7-CERT Registration

2.9 Checklists/Tables



Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code 106.4
Corner S Ranch Mcm B Pad

The following checklist was developed by the Texas Commission on Environmental Quality (TCEQ), **Air Permits Division**, to assist applicants in determining whether or not a facility meets all of the applicable requirements. Before claiming a specific Permit by Rule (PBR), a facility must first meet all of the requirements of **Title 30 Texas Administrative Code § 106.4** (30 TAC § 106.4), "Requirements for Permitting by Rule." Only then can the applicant proceed with addressing requirements of the specific Permit by Rule being claimed.

The use of this checklist is not mandatory; however, it is the responsibility of each applicant to show how a facility being claimed under a PBR meets the general requirements of 30 TAC § 106.4 and also the specific requirements of the PBR being claimed. If all PBR requirements cannot be met, a facility will not be allowed to operate under the PBR and an application for a construction permit may be required under 30 TAC § 116.110(a).

Registration of a facility under a PBR can be performed by completing **Form PI-7** (Registration for Permits by Rule) or **Form PI-7-CERT** (Certification and Registration for Permits by Rule). The appropriate checklist should accompany the registration form. Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the question number. The PBR forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division Web site at: www.tceq.texas.gov/permitting/air/nav/air_pbr.html.

1. 30 TAC 106.4(a)(1) & (4): Emission Limits												
List emissions in TPY for each facility (add additional pages or table if needed).												
NOTE 1	SO2=	0.060	PM10=	0.192	VOC=	24.895	NOX=	2.944	CO=	51.024	HAP=	0.888
NOTE 2	SO2=		PM10=		VOC=		NOX=		CO=		HAP=	
	SO2=		PM10=		VOC=		NOX=		CO=		HAP=	
TOTAL		0.060		0.192		24.895		2.944		51.024		0.888
NOTE 1: THIS 106.512 REGISTRATION						NOTE 2: OTHER NON-REGISTERED 106.352 SOURCES						
● Are the SO2, PM10, VOC, or other air contaminant emissions claimed for each facility in this PBR submittal less than 25 tpy?									<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
Are the NOx and CO emissions claimed for each facility in this PBR submittal less than 250 tpy?									<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
● If the answer to both is "Yes," continue to the question below. If the answer to either question is "No," a PBR cannot be claimed .												
Has any facility at the property had public notice and opportunity for comment under 30 TAC Section 116 for a regular permit or permit renewal? (This does not include public notice for voluntary emission reduction permits, grandfathered existing facility permits, or federal operating permits.)									<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
If "Yes," skip to Section 2. If "No," continue to the questions below.												
If the site has had no public notice, please answer the following:												
● Are the SO2, PM10, VOC, or other emissions claimed for all facilities in this PBR submittal less than 25 tpy?									<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
● Are the NOx and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy?									<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
If the answer to both questions is "Yes", continue to Section 2.												
If the answer to either questions is "No", a PBR cannot be claimed . A permit will be required under Chapter 116.												
2. 30 TAC 106.4(a)(2): Nonattainment check												
● Are the facilities to be claimed under this PBR located in a designated ozone nonattainment county? If "Yes", please indicate which county by checking the appropriate box to the right.									<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
(Moderate) - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery and Waller counties.									<input type="checkbox"/>	HGB		
(Moderate) - Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant and Wise counties.									<input type="checkbox"/>	DFW		
If "Yes" to any of the above, continue to the next question. If "No", continue to Section 3.												

<ul style="list-style-type: none"> Does this project trigger a nonattainment review? To determine the answer, review the information below: 		<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
<ul style="list-style-type: none"> Is the project's potential to emit (PTE) for emissions of VOC or NOx increasing by 100 tpy or more? <i>PTE is the maximum capacity of a stationary source to emit any air pollutant under its worst-case physical and operational design unless limited by a permit, rule, or made federally enforceable by a certification.</i> 		<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
<ul style="list-style-type: none"> Is the site an existing major nonattainment site and are the emissions of VOC or NOx increasing by 40 tpy or more? 		<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
If needed, attach contemporaneous netting calculations per nonattainment guidance.					
Additional information can be found at: www.tceq.state.tx.us/permitting/air/forms/newsourcereview/tables/nsr_table8.html www.tceq.state.tx.us/permitting/air/nav/air_docs_newsourcereview.html					
If "Yes," to any of the above, the project is a major source or a major modification and a PBR may not be used . A Nonattainment Permit review must be completed to authorize this project. If "No," continue to Section 3.					
3. 30 TAC 106.4(a)(3): Prevention of Significant Deterioration (PSD) check					
Does this project trigger a review under PSD? To determine the answer, review the information below:					
<ul style="list-style-type: none"> Are emissions of any regulated criteria pollutant increasing by 100 tpy of any criteria pollutant at a named source? 		<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
<ul style="list-style-type: none"> Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source? 		<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
<ul style="list-style-type: none"> Are emissions increasing above significance levels at an existing major site? 		<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
PSD information can be found at: www.tceq.state.tx.us/permitting/air/forms/newsourcereview/tables/nsr_table9.html www.tceq.state.tx.us/permitting/air/nav/air_docs_newsourcereview.html If "Yes," to any of the above, a PBR may not be used . A PSD Permit review must be completed to authorize this project. If "No," continue to Section 4.					
4. 30 TAC 106.4(a)(6): Federal Requirements					
<ul style="list-style-type: none"> Will all facilities under this PBR meet applicable requirements of Title 40 Code of Federal Regulations (40 CFR) Part 60, New Source Performance Standards (NSPS)? If "Yes," which Subparts are applicable?: 		<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
NSPS:	<input type="checkbox"/> NSPS 60.18	<input type="checkbox"/> NSPS GG	<input checked="" type="checkbox"/>	NSPS JJJJ	<input type="checkbox"/> NSPS KKKK
			<input checked="" type="checkbox"/>	NSPS OOOOa	REFER TO TEXT FOR APPLICABILITY DESCRIPTION.
<ul style="list-style-type: none"> Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT)? If "Yes," which Subparts are applicable?: 		<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
MACT:	<input type="checkbox"/> MACT HH	<input checked="" type="checkbox"/>	MACT ZZZZ	REFER TO TEXT FOR APPLICABILITY DESCRIPTION.	
<ul style="list-style-type: none"> Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP)? If "Yes," which Subparts are applicable?: 		<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
NESHAP:		<input checked="" type="checkbox"/>			N/A
If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applicable standards.					
5. 30 TAC 106.4(a)(7): PBR prohibition check					
<ul style="list-style-type: none"> Are there any permits at the site containing conditions which prohibit or restrict the use of PBRs? 		<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
If "Yes", PBRs may not be used or their use must meet the restrictions of the permit. A new permit or permit amendment may be required.					
List permit number(s):					

TCEQ - 10149 (APDG 4999v14, Revised 02/18) 106.4 Checklist for PBR General Requirements
 This form for use by facilities subject to air quality permits requirements and
 may be revised periodically.

6. 30 TAC 106.4(a)(8): NOX Cap and Trade				
● Is the facility located in Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?	<input type="checkbox"/>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/> NO
<i>If "Yes," answer the question below. If "No," continue to Section 7.</i>				
● Will the proposed facility or group of facilities obtain required allowances for NOx if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)?	<input type="checkbox"/>	<input type="checkbox"/>	YES	<input type="checkbox"/> NO
7. Highly Reactive Volatile Organic Compounds (HRVOC) check				
● Is the facility located in Harris County? <i>If "Yes," answer the next question. If "No," skip to the box below.</i>	<input type="checkbox"/>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/> NO
● Will the project be constructed after June 1, 2006? <i>If "Yes," answer the next question. If "No," skip to the box below.</i>	<input type="checkbox"/>	<input type="checkbox"/>	YES	<input type="checkbox"/> NO
● Will one or more of the following HRVOC be emitted as a part of this project?	<input type="checkbox"/>	<input type="checkbox"/>	YES	<input type="checkbox"/> NO
<i>If "Yes," complete the information below:</i>				
		lbs/hr	tpy	
- 1,3 -butadiene				
- all isomers of butene (eg. Isobutene [2-methylpropene or isobutylene])				
- alpha-butylene (ethylene)				
- beta-butylene (dimethylene, including both cis- and trans-isomers)				
- ethylene				
- propylene				
● Is the facility located in Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County? <i>If "Yes," answer the next question. If "No," the checklist is complete.</i>	<input type="checkbox"/>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/> NO
● Will the project be constructed after June 1, 2006? <i>If "Yes," answer the next question. If "No," the checklist is complete.</i>	<input type="checkbox"/>	<input type="checkbox"/>	YES	<input type="checkbox"/> NO
● Will one or more of the following HRVOC be emitted as a part of this project?	<input type="checkbox"/>	<input type="checkbox"/>	YES	<input type="checkbox"/> NO
<i>If "Yes", complete the information below:</i>				
		lbs/hr	tpy	
- ethylene				
- propylene				



Oil and Gas Handling and Production Facilities
Title 30 Texas Administrative Code 106.352(l)
www.TexasOilandGasHelp.org

Check the most appropriate answer and include any technical information in the spaces provided. If additional space is needed, please include an extra page that references this checklist. The forms, checklists, and guidance documents are available from the Texas Commission on Environmental Quality (TCEQ), Air Permits Division Web site at: www.tceq.texas.gov/permitting/air/permitbyrule/subchapter-o/oil_and_gas.html.

If you have any questions, or need additional assistance, please contact the Air Permits Division at (512) 239-1250.

The facility can register by submitting this application and any supporting documentation. Below is a checklist to ensure you have provided all appropriate documentation. For sites that require registration or if the company chooses to register the site with the TCEQ, a Core Data Form (TCEQ – 10400) is required with this checklist.

This checklist is for use by the operator to ensure a complete application.					
Have you included each of the following items in the application?					
X	Process description				
X	Plot plan or area map.				
X	TCEQ Oil and Gas Emission Calculation Spreadsheet (or equivalent).				
X	Detailed summary of maximum emissions estimates with supporting reports from any emission estimation computer program.				
X	Gas and Liquid analyses. If a site-specific a representative site was used.				
X	Technical documents (manufacturer's specification sheet, operational design sheets)				
X	State and Federal applicability				
X	Core Data Form (for new sites that have never been registered with TCEQ).				
General Information and Questions/Descriptions					
<p>1. Is the project located in one of the Barnett Shale counties and did the start of construction or modification begins on or after April 1, 2011?</p> <p>Note: Counties included in the Barnett Shale area: Cooke, Dallas, Denton, Ellis, Erath, Hill, Hood, Jack, Johnson, Montague, Palo Pinto, Parker, Somervell, Tarrant, and Wise counties.</p> <p>For what is considered start of construction see: www.tceq.texas.gov/assets/public/permitting/air/Guidance/NewSourceReview/factsheet-const.pdf</p> <p>If "Yes," do not complete this checklist. The project is subject to the requirements of §106.352(a)-(k). Additional information for Barnett Shale area projects can be found: www.tceq.texas.gov/permitting/air/permitbyrule/subchapter-o/oil_and_gas.html.</p>	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>Yes</td> <td><input checked="" type="checkbox"/></td> <td>No</td> </tr> </table>	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No		



Oil and Gas Handling and Production Facilities

Title 30 Texas Administrative Code 106.352(l)

www.TexasOilandGasHelp.org

General Information and Questions/Descriptions (continued)			
2.	Are the total site-wide emissions from all facilities claimed under §106.352 less than 25 tpy VOC, 250 tpy NOX , 250 tpy CO, 25 tpy SO ₂ , 25 tpy PM, 15 tpy PM ₁₀ , 10 tpy PM _{2.5} , and 25 tpy of any other air contaminant?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
3.	Are there flares, engines, or turbines at the site? <i>If "Yes," attach supporting documentation to demonstrate compliance with the requirements.</i> Additional information and checklists can be found at: §106.492 Flares: www.tceq.texas.gov/permitting/air/permitbyrule/subchapter-v/flares.html §106.512 Stationary Engines and turbines: www.tceq.texas.gov/permitting/air/permitbyrule/subchapterw/stationary_eng_turb.html	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
4.	Does any facility at the site handle a stream with more than 24 ppm hydrogen sulfide (H ₂ S)? <i>If "Yes," proceed to question (4)(a) and (4)(b) and then proceed to questions 5 and 6.</i> <i>If "No," skip questions 5 through 6.</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
4a.	What is the actual H ₂ S content of the stream?	18.000	ppm
4b.	Indicate the actual distance from the nearest emissions point to the nearest offsite receptor:	>3,000	ft.
Note: An offsite receptor includes any recreational area, residence, or other structure not occupied or used solely by the owner or operator of the facility. A facility handling sour gas must be located at least 1/4 mile from the nearest offsite receptor.			
5.	Indicate the total actual emission rate of sulfur compounds, excluding sulfur oxides, from all vents		lb/hr
6.	Does the height of all vents at the site emitting sulfur compounds meet the minimum required height based on the H ₂ S emission rate in 106.352(l)(4)?		feet
Note: Truck loading and fugitive sources are not considered vents.			

Recordkeeping: To demonstrate compliance with the requirements of the PBR, sufficient records must be maintained at all times. The records must be made available immediately upon request to the commission or any air pollution control program having jurisdiction. If you have any questions about the recordkeeping requirements, contact the Air Permits Division or the Air Program in the TCEQ Regional Office for the region in which the site is located.



**Stationary Engines and Turbines
Air Permits by Rule (PBR) Checklist
Title 30 Texas Administrative Code § 106.512**

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
RN NO.: RN106501851
DATE: 03/11/2024

Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the question number. The PBR forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division Web site at: www.tceq.state.tx.us/permitting/air/nav/air_pbr.html.

This PBR (§ 106.512) requires registration with the commission's Office of Permitting, Remediation, and Registration in Austin before construction if the horsepower (hp) of the facility is greater than 240 hp. Registration of the facility can be performed by completing a [Form PI-7](#), "Registration for Permits by Rule," or [Form PI-7-CERT](#), "Certification and Registration for Permits by Rule." This checklist should accompany the registration form.

Definitions:

The following words and terms, when used in this section, shall have the following meanings, unless the context clearly indicates otherwise.

A. **Rich-burn Engine:** A rich-burn engine is a gas-fired, spark-ignited engine that is operated with an exhaust oxygen content less than four percent by volume.

B. **Lean-burn Engine:** A lean-burn engine is a gas-fired, spark-ignited engine that is operated with an exhaust oxygen content of four percent by volume, or greater.

C. **Rated Engine Horsepower:** Engine rated horsepower shall be based on the engine manufacturer's maximum continuous load rating at the lesser of the engine or driven equipment's maximum published continuous speed.

D. **Turbine Horsepower:** Turbine rated horsepower shall be based on turbine base load, fuel power heating value, and International Standards Organization Standard Day Conditions of 59 degrees Fahrenheit, 1.0 atmosphere pressure, and 60 percent relative humidity.

CHECK THE MOST APPROPRIATE ANSWERS AND FILL IN THE BLANKS						
Rule	Questions/Descriptions	Information		Response		
	Will the engine or turbine be used as a replacement at an oil and gas site and does it meet all the requirements of the policy memo entitled, " Replacement of All Engine and Turbine Components for Oil and Gas Production ?" <i>If "YES," registration is not required for like-kind replacements of engine or turbine components. If "NO," please continue .</i>	EPN ENG3 ENG4 ENG5 ENG6		YES <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	NO <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
(1)	Is the engine or turbine rated less than 240 hp? <i>If "YES," then registration is not required, but the facility must comply with conditions (5) and (6) of this rule. If "NO," then registration is required and the facility must be registered by submitting a completed Form PI-7 and Table 29 or Table 31, as applicable, within 10 days after construction begins .</i>	EPN ENG3 ENG4 ENG5 ENG6		YES <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	NO <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
(1)	Indicate the type of equipment (pick one): <i>If an engine, go to Question (2). If a turbine, go to Question (3).</i>	EPN ENG3 ENG4 ENG5 ENG6	ENGINE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	TURBINE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	YES <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	NO <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



**Stationary Engines and Turbines
Air Permits by Rule (PBR) Checklist
Title 30 Texas Administrative Code § 106.512**

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
RN NO.: RN106501851
DATE: 03/11/2024

CHECK THE MOST APPROPRIATE ANSWERS AND FILL IN THE BLANKS																											
Rule	Questions/Descriptions	Information	Response																								
(2)	Is the engine rated at 500 hp or greater? If "NO," the engine is between 240 hp and 500 hp. The engine must be registered by submitting a completed Form PI-7 and a Table 29 within 10 days after construction begins and must comply with conditions (5) and (6) of this rule. If "YES," in addition to registration, the engine must operate in compliance with the following nitrogen (NOx) emission limit(s). Check the limit(s) applicable to this engine by answering the following:	EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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(2)(A)(i)	The engine is a gas-fired, rich-burn engine and will not exceed 2.0 grams per horsepower hour (g/hp-hr) under all operating conditions.	NO _x G/HP-HR EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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(2)(A)(ii)	The engine is a spark-ignited, gas-fired, lean-burn engine or any compression-ignited, dual fuel-fired engine manufactured new after June 18, 1992, and will not exceed 2.0 g/hp-hr NOx at manufacturer's rated full load and speed at all times; except, the engine will not exceed 5.0 g/hp-hr NOx under reduced speed and 80% and 100% of full torque conditions.	NO _x G/HP-HR EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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(2)(A)(iii)	The engine is any spark-ignited, lean-burn two-cycle or four-cycle engine or any compression-ignited, dual fuel-fired engine rated 825 hp or greater and manufactured between September 23, 1982 and June 18, 1992, and will not exceed 5.0 g/hp-hr NOx under all operating conditions.	NO _x G/HP-HR EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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(2)(A)(iv)	The engine is any spark-ignited, gas-fired, lean-burn, four-cycle engine or compression-ignited, dual-fuel-fired engine that was manufactured before June 18, 1992, and is rated less than 825 hp, or was manufactured before September 23, 1982, and will not exceed 5.0 g/hp-hr NOx at manufacturer's rated full load and speed at all times; except, the engine will not exceed 8.0 g/hp-hr NOx under reduced speed and 80% and 100% of full torque conditions.	NO _x G/HP-HR EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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(2)(A)(v)	The engine is any spark-ignited, gas-fired, two-cycle, lean-burn engine that was manufactured before June 18, 1992, and is rated less than 825 hp, or was manufactured before September 23, 1982, and will not exceed 8.0 g/hp-hr NOx under all operating conditions.	NO _x G/HP-HR EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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<input type="checkbox"/>	YES	<input type="checkbox"/>	NO																								
<input type="checkbox"/>	YES	<input type="checkbox"/>	NO																								
(2)(A)(vi)	The engine is any compression-ignited, liquid-fired engine and will not exceed 11.0 g/hp-hr NOx under all operating conditions.	NO _x G/HP-HR EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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<input type="checkbox"/>	YES	<input type="checkbox"/>	NO																								
<input type="checkbox"/>	YES	<input type="checkbox"/>	NO																								
(2)(B)	Does the engine require an automatic air-fuel ratio controller to meet the NOx limit(s) above?	EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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<input type="checkbox"/>	YES	<input type="checkbox"/>	NO																								
(2)(B)	For spark-ignited gas-fired or compression-ignited dual fuel-fired engines, is the engine required to have an automatic air-fuel ratio controller under condition (2)(B) of the PBR?	EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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**Stationary Engines and Turbines
Air Permits by Rule (PBR) Checklist
Title 30 Texas Administrative Code § 106.512**

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
RN NO.: RN106501851
DATE: 03/11/2024

CHECK THE MOST APPROPRIATE ANSWERS AND FILL IN THE BLANKS			
Rule	Questions/Descriptions	Information	Response
(2)(C)	Are you aware of and accept responsibility for the record and testing requirements as specified in (2)(C) of the PBR?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
(3)	Is the turbine rated 500 hp or more? <i>If "NO," the turbine is between 240 hp and 500 hp. The engine only needs to be registered by submitting a completed Form PI-7 and a Table 31 within 10 days after construction begins. If "YES," in addition to registration, the turbine must operate in compliance with the following emission limit(s).</i>	EPN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO
(3)(A)	Will the emissions of NOx exceed 3.0 g/hp-hr for gas-firing?	EPN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO
(3)(B)	Will the turbine meet all applicable NOx and sulfur dioxide (or fuel sulfur) emission limitations, monitoring requirements, and reporting requirements of 40 CFR Part 60, NSPS Subpart GG ?	EPN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO
(4)	Is the engine or turbine rated less than 500 hp or used for temporary replacement purposes? <i>If "NO," go to Question (5). If "YES," the equipment does not have to meet the emission limits of (2) and (3). However, the temporary replacement equipment can only remain in service for a maximum of 90 days.</i>	EPN ENG3 ENG4 ENG5 ENG6	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO
(5)	What type of fuel will be used and will the fuel meet the requirements of the PBR? <i>Indicate the fuel(s) used.</i>	EPN ENG3 ENG4 ENG5 ENG6 FUEL GASOLINE GASOLINE GASOLINE GASOLINE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO
(6)	Does the installation comply with the National Ambient Air Quality Standards (NAAQS)? <i>Note: Indicate which method is used and attach the modeling report and/or calculations and diagrams to support the selected method.</i>	<input checked="" type="checkbox"/> MODELING <input type="checkbox"/> STACK HEIGHT <input type="checkbox"/> FACILITY EMISSIONS & PROPERTY LINE DISTANCE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
(6)	Have you included a modeling report and/or calculations and diagrams to support the selected NAAQS compliance determination method?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	For the following questions, please refer to the Electric Generators under Permit by Rule policy memo from October 2006.		
(7)	Is the engine or turbine used to generate electricity? <i>If "NO," the following do not apply.</i>	EPN ENG3 ENG4 ENG5 ENG6	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO



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Rule	Questions/Descriptions	Information	Response																								
(7)	Will the engine or turbine be used to generate electricity to operate facilities authorized by a New Source Review Permit? <i>If "YES," the engine or turbine does not qualify for this PBR and authorization must be obtained through a permit amendment.</i>	EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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<input type="checkbox"/>	YES	<input type="checkbox"/>	NO																								
<input type="checkbox"/>	YES	<input type="checkbox"/>	NO																								
(7)	If the engine or turbine is used to generate electricity, will it be exclusively for on-site use at locations which cannot be connected to an electric grid? REFER TO PROCESS DESCRIPTION IN APPLICATION. <i>If "YES," describe why access to the electric grid is not available.</i> <i>If "NO," the engine or turbine does not qualify for this PBR.</i>	EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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<input type="checkbox"/>	YES	<input type="checkbox"/>	NO																								
(7)	Has an Electric Generating Unit Standard Permit been issued for one of the following activities for which the engine or turbine will only be used to generate electricity? <input type="checkbox"/> Engines or turbines used to provide power for the operation of facilities registered under the Air Quality Standard Permit for Concrete Batch Plants. <input type="checkbox"/> Engines or turbines satisfying the conditions for facilities permitted by rule under 30 TAC 106, Subchapter E (relating to Aggregate and Pavement). <input type="checkbox"/> Engines or turbines used exclusively to provide power to electric pumps used for irrigating crops. <i>If "NO," the engine or turbine does not qualify for this PBR.</i>	EPN ENG3 ENG4 ENG5 ENG6	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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Rule	Other Applicable Rules and Regulations	Why or Why Not?	Response																								
	If the engine or turbine is located in the Houston/Galveston nonattainment area, is the site subject to the Mass Emission Cap and Trade Program? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 ENG4 ENG5 ENG6 SEE NOTE SEE NOTE SEE NOTE SEE NOTE	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
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	Is the facility subject to 30 TAC Chapter 115 ? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 ENG4 ENG5 ENG6 SEE NOTE SEE NOTE SEE NOTE SEE NOTE	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
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	Is the facility subject to 30 TAC Chapter §§ 117.201-223 ? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 ENG4 ENG5 ENG6 SEE NOTE SEE NOTE SEE NOTE SEE NOTE	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
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	Is the facility subject to 40 CFR Part 60, NSPS Subpart D ? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 ENG4 ENG5 ENG6 SEE NOTE SEE NOTE SEE NOTE SEE NOTE	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
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<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO																								
	Is the facility subject to 40 CFR Part 60, NSPS Subpart Da ? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 ENG4 ENG5 ENG6 SEE NOTE SEE NOTE SEE NOTE SEE NOTE	<table><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
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RN NO.: RN106501851
DATE: 03/11/2024

CHECK THE MOST APPROPRIATE ANSWERS AND FILL IN THE BLANKS																											
Rule	Other Applicable Rules and Regulations	Why or Why Not?	Response																								
	Is the facility subject to 40 CFR Part 60, NSPS Subpart Db? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 SEE NOTE ENG4 SEE NOTE ENG5 SEE NOTE ENG6 SEE NOTE	<table border="1"><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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	Is the facility subject to 40 CFR Part 60, NSPS Subpart Dc? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 SEE NOTE ENG4 SEE NOTE ENG5 SEE NOTE ENG6 SEE NOTE	<table border="1"><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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	Is the facility subject to 40 CFR Part 60, NSPS Subpart GG? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 SEE NOTE ENG4 SEE NOTE ENG5 SEE NOTE ENG6 SEE NOTE	<table border="1"><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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<input type="checkbox"/>	YES	<input type="checkbox"/>	NO																								
	Is the facility subject to 40 CFR Part 60, NSPS Subpart IIII? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 SEE NOTE ENG4 SEE NOTE ENG5 SEE NOTE ENG6 SEE NOTE	<table border="1"><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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	Is the facility subject to 40 CFR Part 63, MACT Subpart YYYY? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 SEE NOTE ENG4 SEE NOTE ENG5 SEE NOTE ENG6 SEE NOTE	<table border="1"><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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	Is the facility subject to 40 CFR Part 63, MACT Subpart ZZZZ? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 SEE NOTE ENG4 SEE NOTE ENG5 SEE NOTE ENG6 SEE NOTE	<table border="1"><tr><td><input checked="" type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input checked="" type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input checked="" type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input checked="" type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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	Is the facility subject to 40 CFR Part 63, MACT Subpart P PPPP? NOTE: REFER TO APPLICATION TEXT/DISCUSSION	EPN ENG3 SEE NOTE ENG4 SEE NOTE ENG5 SEE NOTE ENG6 SEE NOTE	<table border="1"><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input checked="" type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr><tr><td><input type="checkbox"/></td><td>YES</td><td><input type="checkbox"/></td><td>NO</td></tr></table>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
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<input type="checkbox"/>	YES	<input type="checkbox"/>	NO																								

Record Keeping: In order to demonstrate compliance with the general and specific requirements of this PBR, sufficient records must be maintained to demonstrate that all requirements are met at all times. If the engine or turbine is rated greater than 500 horsepower, all records must be maintained as required by [30 TAC § 106.512\(2\)\(C\)](#). The registrant should also become familiar with the additional record keeping requirements in [30 TAC § 106.8](#). The records must be made available immediately upon request to the commission or any air pollution control program having jurisdiction. If you have any questions about the type of records that should be maintained or testing requirements, contact the Air Program in the [TCEQ Regional Office](#) for the region in which the site is located.

Recommended Calculation Method: In order to demonstrate compliance with this PBR, emission factors for each air contaminant from the EPA Compilation of Air Pollutant Emission Factors (AP-42), Fifth Edition, Volume 1, Section 3.1: Stationary Gas Turbines for Electricity Generation at: www.epa.gov/ttn/chief/ap42/index.html should be used, including, the specific air contaminant's emission limit listed on the table below.



**Stationary Engines and Turbines
Air Permits by Rule (PBR) Checklist
Title 30 Texas Administrative Code § 106.512**

TCEQ Exemption 30 TAC 106.512 General Guidelines										
NO x g/hp-hr Emission Limits										
Date Original Manufacture		NA	NA	Before 9/23/82		9/23/82 to 6/18/92			After 6/18/92	
Mfg. Rate Horsepower		<240	>240 <500	>500*		500-824*			>825	
Operating Speed Operating Torque		NA	NA	Full NA	Reduced 80-100%	Full NA	Reduced 80-100%	Full NA	Reduced 80-100%	Full NA
Ignition Type	Engine Combustion Design									
Spark	Rich Burn ++ Lean Burn** 2-Cycle	NA NA NA	NA NA NA	2.0 5.0 8.0	2.0 8.0 8.0	2.0 5.0 8.0	2.0 8.0 8.0	2.0 5.0 2.0	2.0 5.0 5.0	2.0 2.0 2.0
Compression	Dual Fuel Liquid Fuel	NA NA NA	NA NA NA	5.0 11.0	8.0 11.0	5.0 11.0	8.0 11.0	2.0 11.0	5.0 11.0	2.0 11.0
	Turbines+	NA	NA	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	PL-7 Registration Emission Testing	No No	Yes Biennial	Yes Biennial	Yes Biennial	Yes Biennial	Yes Biennial	Yes Biennial	Yes Biennial	Yes Biennial
										Yes Biennial

Notes:

- * Lower emission rates apply to lean-burn engine operations. Full Speed & Any Torque or Any Speed & <80% or >100% Torque
- + Turbine emissions are also regulated by EPA NSPS Standards for NOx and SO2
- ** Lean-Burn > 4% exhaust O₂
- ++ Rich-Burn <= 4% exhaust O₂

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
HT1	HT1	; MAKE: UNKNOWN; MODEL: UNKNOWN; NATURAL GAS; 1,000 MMBTU/HR; 8,760,000 HRS/YR; UNCONTROLLED; HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)	NOX	0.098	0.429
			CO	0.082	0.361
			SO2	0.001	0.003
			PM10	0.007	0.033
			PM2.5	0.007	0.033
			H2S	0.000	0.000
			Lead	0.000	0.000
			VOC-total	0.005	0.024
			VOC-u		
			VOC-HAP-total	0.002	0.008
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE	0.000	0.000
			ETHYLBENZENE		
			FORMALDEHYDE	0.000	0.000
			HEXANE-N	0.002	0.008
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M		
			XYLENE-O	0.000	0.000
			XYLENE-P		
			VOC(HAP)-u		
			METHANE	0.002	0.010
			ETHANE	0.003	0.013
			CO2	117.647	515.294

EPN = Emission Point Number; FIN = Facility Identification Number

117.857

516.215

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
HT2	HT2	; MAKE: UNKNOWN; MODEL: UNKNOWN; NATURAL GAS; 1,000 MMBTU/HR; 8,760,000 HRS/YR; UNCONTROLLED; HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)	NOX	0.098	0.429
			CO	0.082	0.361
			SO2	0.001	0.003
			PM10	0.007	0.033
			PM2.5	0.007	0.033
			H2S	0.000	0.000
			Lead	0.000	0.000
			VOC-total	0.005	0.024
			VOC-u		
			VOC-HAP-total	0.002	0.008
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE	0.000	0.000
			ETHYLBENZENE		
			FORMALDEHYDE	0.000	0.000
			HEXANE-N	0.002	0.008
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M		
			XYLENE-O	0.000	0.000
			XYLENE-P		
			VOC(HAP)-u		
			METHANE	0.002	0.010
			ETHANE	0.003	0.013
			CO2	117.647	515.294

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
HT3	HT3	; MAKE: UNKNOWN; MODEL: UNKNOWN; NATURAL GAS; 1,000 MMBTU/HR; 8,760,000 HRS/YR; UNCONTROLLED; HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)	NOX	0.098	0.429
			CO	0.082	0.361
			SO2	0.001	0.003
			PM10	0.007	0.033
			PM2.5	0.007	0.033
			H2S	0.000	0.000
			Lead	0.000	0.000
			VOC-total	0.005	0.024
			VOC-u		
			VOC-HAP-total	0.002	0.008
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE	0.000	0.000
			ETHYLBENZENE		
			FORMALDEHYDE	0.000	0.000
			HEXANE-N	0.002	0.008
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M		
			XYLENE-O	0.000	0.000
			XYLENE-P		
			VOC(HAP)-u		
			METHANE	0.002	0.010
			ETHANE	0.003	0.013
			CO2	117.647	515.294

EPN = Emission Point Number; FIN = Facility Identification Number

117.857 516.215

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
HT4	HT4	; MAKE: UNKNOWN; MODEL: UNKNOWN; NATURAL GAS; 1,000 MMBTU/HR; 8,760,000 HRS/YR; UNCONTROLLED; HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)	NOX	0.098	0.429
			CO	0.082	0.361
			SO2	0.001	0.003
			PM10	0.007	0.033
			PM2.5	0.007	0.033
			H2S	0.000	0.000
			Lead	0.000	0.000
			VOC-total	0.005	0.024
			VOC-u		
			VOC-HAP-total	0.002	0.008
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE	0.000	0.000
			ETHYLBENZENE		
			FORMALDEHYDE	0.000	0.000
			HEXANE-N	0.002	0.008
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M		
			XYLENE-O	0.000	0.000
			XYLENE-P		
			VOC(HAP)-u		
			METHANE	0.002	0.010
			ETHANE	0.003	0.013
			CO2	117.647	515.294

EPN = Emission Point Number; FIN = Facility Identification Number

117.857 516.215

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK1	TANK1	: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBL/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: NOX EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061
				0.059	0.257

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK2	TANK2	: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBL/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: NOX EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

0.059 0.257

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK17	TANK17	: PRODUCED WATER @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 0.026 TURN-OVERS/YR; 0.028 BBLs/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: NOX EXISTING; COMMENTS: PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.054	0.234
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.006
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.001
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.005
			METHANOL		
			TOLUENE	0.000	0.001
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.018	0.078
				0.075	0.328

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK3	TANK3	: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBL/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: NOX EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

0.059 0.257

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK4	TANK4	: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBL/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: NOX EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK5	TANK5	: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBL/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: NOX EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061
				0.059	0.257

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK6	TANK6	TANK 7: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1,406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK7	TANK7	TANK 8: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1,406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK8	TANK8	TANK 9: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1,406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK9	TANK9	TANK 10: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1,406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK10	TANK10	TANK 11: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1,406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK11	TANK11	TANK 12: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1,406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK12	TANK12	TANK 13: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061
				0.059	0.257

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK13	TANK13	TANK 14: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1,406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK14	TANK14	TANK 15: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1,406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK15	TANK15	TANK 16: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

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AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK16	TANK16	TANK 17: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1,406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.042	0.184
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.005
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.004
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.014	0.061

EPN = Emission Point Number; FIN = Facility Identification Number

0.059 0.257

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK18	TANK18	TANK 19: PRODUCED WATER @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 0.026 TURN-OVERS/YR; 0.028 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.054	0.234
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.006
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.001
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.005
			METHANOL		
			TOLUENE	0.000	0.001
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.018	0.078

EPN = Emission Point Number; FIN = Facility Identification Number

0.075 0.328

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK19	TANK19	TANK 20: PRODUCED WATER @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 0.026 TURN-OVERS/YR; 0.028 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.054	0.234
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.006
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.001
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.005
			METHANOL		
			TOLUENE	0.000	0.001
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.018	0.078

EPN = Emission Point Number; FIN = Facility Identification Number

0.075 0.328

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
TANK20	TANK20	TANK 21: PRODUCED WATER @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 0.026 TURN-OVERS/YR; 0.028 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.054	0.234
			VOC-u	0.001	0.003
			VOC-HAP-total	0.001	0.006
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.001
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.005
			METHANOL		
			TOLUENE	0.000	0.001
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.018	0.078

EPN = Emission Point Number; FIN = Facility Identification Number

0.075 0.328

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
C LOAD 1	C LOAD 1	LOADING 1: STABILIZED CRUDE @ 8.74553752 PSIA; THROUGHPUT: 344,925.000 GALLONS/YR; 22.500 BBL/D; 45.625 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; COMMENTS: CRUDE LOADING; VENTING TO ATMOSPHERE; 106.352(L)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	34.272	0.782
			VOC-u	0.006	0.000
			VOC-HAP-total	0.012	0.000
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.001	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.009	0.000
			METHANOL		
			TOLUENE	0.001	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2		

EPN = Emission Point Number; FIN = Facility Identification Number

34.302

0.783

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
PW LOAD 1	PW LOAD 1	LOADING 2: PRODUCED WATER @ 8.74553752 PSIA; THROUGHPUT: 172,462.500 GALLONS/YR; 11.250 BBLS/D; 22.813 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; COMMENTS: PRODUCED WATER LOADING; ASSUMED 1% CRUDE BY VOLUME; VENTING TO ATMOSPHERE; 106.352(L)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.343	0.004
			VOC-u	0.000	0.000
			VOC-HAP-total	0.000	0.000
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.000	0.000
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2		

EPN = Emission Point Number; FIN = Facility Identification Number

0.343

0.004

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
HT1-FLASH	HT1-FLASH	FLASH 1: CRUDE/NATURAL GAS; THROUGHPUT: 2,063.391 BBLS/YR; 5.653 BBLS/D; FLASHING FROM 110.000 PSIG TO 14.270 PSIG; PRIMARY/SECONDARY CONTROLS: TO ATMOSPHERE / TO ATMOSPHERE; COMMENTS: HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.002
			Lead		
			VOC-total	0.645	2.824
			VOC-u	0.009	0.040
			VOC-HAP-total	0.016	0.072
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.002	0.007
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.001
			FORMALDEHYDE		
			HEXANE-N	0.013	0.056
			METHANOL		
			TOLUENE	0.001	0.006
			XYLENE-M	0.001	0.003
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.215	0.940
				0.902	3.950

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
HT2-FLASH	HT2-FLASH	FLASH 2: CRUDE/NATURAL GAS; THROUGHPUT: 2,063.391 BBLS/YR; 5.653 BBLS/D; FLASHING FROM 110.000 PSIG TO 14.270 PSIG; PRIMARY/SECONDARY CONTROLS: TO ATMOSPHERE / TO ATMOSPHERE; COMMENTS: HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.002
			Lead		
			VOC-total	0.645	2.824
			VOC-u	0.009	0.040
			VOC-HAP-total	0.016	0.072
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.002	0.007
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.001
			FORMALDEHYDE		
			HEXANE-N	0.013	0.056
			METHANOL		
			TOLUENE	0.001	0.006
			XYLENE-M	0.001	0.003
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.215	0.940
				0.902	3.950

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
HT3-FLASH	HT3-FLASH	FLASH 3: CRUDE/NATURAL GAS; THROUGHPUT: 2,063.391 BBLS/YR; 5.653 BBLS/D; FLASHING FROM 110.000 PSIG TO 14.270 PSIG; PRIMARY/SECONDARY CONTROLS: TO ATMOSPHERE / TO ATMOSPHERE; COMMENTS: HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.002
			Lead		
			VOC-total	0.645	2.824
			VOC-u	0.009	0.040
			VOC-HAP-total	0.016	0.072
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.002	0.007
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.001
			FORMALDEHYDE		
			HEXANE-N	0.013	0.056
			METHANOL		
			TOLUENE	0.001	0.006
			XYLENE-M	0.001	0.003
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.215	0.940
				0.902	3.950

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
HT4-FLASH	HT4-FLASH	FLASH 4: CRUDE/NATURAL GAS; THROUGHPUT: 2,063.391 BBLS/YR; 5.653 BBLS/D; FLASHING FROM 110.000 PSIG TO 14.270 PSIG; PRIMARY/SECONDARY CONTROLS: TO ATMOSPHERE / TO ATMOSPHERE; COMMENTS: HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.002
			Lead		
			VOC-total	0.645	2.824
			VOC-u	0.009	0.040
			VOC-HAP-total	0.016	0.072
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.002	0.007
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.001
			FORMALDEHYDE		
			HEXANE-N	0.013	0.056
			METHANOL		
			TOLUENE	0.001	0.006
			XYLENE-M	0.001	0.003
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.215	0.940

EPN = Emission Point Number; FIN = Facility Identification Number

0.902 3.950

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
FUG	FUG	FUGITIVES 1; LIGHT-LIQUID COMPONENTS / NATURAL GAS COMPONENTS / : 8,760.000 HRS/YR; MONITORING PROGRAM: / / / ; COMMENTS: SITE FUGITIVE EMISSIONS; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	1.701	7.449
			VOC-u	0.000	0.001
			VOC-HAP-total	0.001	0.003
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.000	0.002
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2		

EPN = Emission Point Number; FIN = Facility Identification Number

1.702

7.455

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
MSS 1	MSS 1	BLOW DOWNS 1: THROUGHPUT: 25.000 SCF/BLOWDOWN @ 25.00 BLOWDOWNS/MONTH; 0.008 MMSCF/YR; 300.000 HRS/YR; COMMENTS: MSS ACTIVITY; VAPORS VENTED TO ATMOSPHERE DURING MSS ACTIVITIES; 106.359	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.074	0.011
			VOC-u	0.001	0.000
			VOC-HAP-total	0.002	0.000
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.001	0.000
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.025	0.004

EPN = Emission Point Number; FIN = Facility Identification Number

0.104 0.016

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
MSS 2	MSS 2	BLOW DOWNS 2: THROUGHPUT: 5,620,000 SCF/BLOWDOWN @ 0.08 BLOWDOWNS/MONTH; 0.006 MMSCF/YR; 1.000 HRS/YR; COMMENTS: MSS ACTIVITY; STORAGE TANK DE-GASSING DURING MAINTENANCE ACTIVITY; ASSUME DE-GASSING 1 TANK/YEAR; VENTS TO ATMOSPHERE; 106.359	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	16.658	0.008
			VOC-u	0.234	0.000
			VOC-HAP-total	0.426	0.000
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.039	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.003	0.000
			FORMALDEHYDE		
			HEXANE-N	0.331	0.000
			METHANOL		
			TOLUENE	0.038	0.000
			XYLENE-M	0.016	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	5.544	0.003

EPN = Emission Point Number; FIN = Facility Identification Number

23.289 0.012

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
MSS 3	MSS 3	BLOW DOWNS 3: THROUGHPUT: 1,200,000 SCF/BLOWDOWN @ 1.00 BLOWDOWNS/MONTH; 0.115 MMSCF/YR; 96,000 HRS/YR; COMMENTS: MSS ACTIVITIES; MISC. ABRASIVE BLASTING/COATING ACTIVITIES; VENTS TO ATMOSPHERE; AREA SOURCE; 106.359	NOX		
			CO		
			SO2		
			PM10	0.062	0.003
			PM2.5	0.062	0.003
			H2S	0.000	0.000
			Lead		
			VOC-total	2.989	0.143
			VOC-u		
			VOC-HAP-total	2.335	0.112
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.467	0.022
			DICHLOROBENZENE		
			ETHYLBENZENE	0.467	0.022
			FORMALDEHYDE		
			HEXANE-N	0.467	0.022
			METHANOL		
			TOLUENE	0.467	0.022
			XYLENE-M	0.467	0.022
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2		

EPN = Emission Point Number; FIN = Facility Identification Number

7.783

0.374

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
VENTING 1	VENTING 1	BLOW DOWNS 4: THROUGHPUT: 2.250 SCF/BLOWDOWN @ 182.50 BLOWDOWNS/MONTH; 0.005 MMSCF/YR; 2,190.000 HRS/YR; COMMENTS: PNEUMATIC DEVICE; VENTING TO ATMOSPHERE; 106.352(l)	NOX		
			CO		
			SO2		
			PM10		
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.007	0.007
			VOC-u	0.000	0.000
			VOC-HAP-total	0.000	0.000
			ACETALDEHYDE		
			ACROLEIN		
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE	0.000	0.000
			FORMALDEHYDE		
			HEXANE-N	0.000	0.000
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE		
			ETHANE		
			CO2	0.002	0.002
				0.009	0.010

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
ENG3	ENG3	LIQUID FUEL ENGINE 1: HONDA GX160; SERIAL NO.: GCBPT-1482761; 4.8 HP; FUEL: GASOLINE; 4S-RB; CONTROL: NONE; 8,760.000 HRS/YR; PERMIT STATUS: UN-MODIFIED; COMMENTS: GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	NOX	0.070	0.307
			CO	2.830	12.395
			SO2	0.003	0.012
			PM10	0.003	0.015
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.070	0.306
			VOC-u		
			VOC-HAP-total	0.020	0.088
			ACETALDEHYDE	0.000	0.000
			ACROLEIN	0.000	0.000
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE		
			FORMALDEHYDE	0.020	0.088
			HEXANE-N		
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE	0.000	0.000
			ETHANE	0.000	0.000
			CO2	5.174	22.664
				8.191	35.875

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
ENG4	ENG4	LIQUID FUEL ENGINE 2: HONDA GX160; SERIAL NO.: GCBPT-1482912; 4.8 HP; FUEL: GASOLINE; 4S-RB; CONTROL: NONE; 8,760.000 HRS/YR; PERMIT STATUS: UN-MODIFIED; COMMENTS: GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	NOX	0.070	0.307
			CO	2.830	12.395
			SO2	0.003	0.012
			PM10	0.003	0.015
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.070	0.306
			VOC-u		
			VOC-HAP-total	0.020	0.088
			ACETALDEHYDE	0.000	0.000
			ACROLEIN	0.000	0.000
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE		
			FORMALDEHYDE	0.020	0.088
			HEXANE-N		
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE	0.000	0.000
			ETHANE	0.000	0.000
			CO2	5.174	22.664
				8.191	35.875

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
ENG5	ENG5	LIQUID FUEL ENGINE 3: HONDA GX160; SERIAL NO.: GCBPT-1482762; 4.8 HP; FUEL: GASOLINE; 4S-RB; CONTROL: NONE; 8,760.000 HRS/YR; PERMIT STATUS: UN-MODIFIED; COMMENTS: GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	NOX	0.070	0.307
			CO	2.830	12.395
			SO2	0.003	0.012
			PM10	0.003	0.015
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.070	0.306
			VOC-u		
			VOC-HAP-total	0.020	0.088
			ACETALDEHYDE	0.000	0.000
			ACROLEIN	0.000	0.000
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE		
			FORMALDEHYDE	0.020	0.088
			HEXANE-N		
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE	0.000	0.000
			ETHANE	0.000	0.000
			CO2	5.174	22.664
				8.191	35.875

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
ENG6	ENG6	LIQUID FUEL ENGINE 4: HONDA GX160; SERIAL NO.: GCBPT-1482911; 4.8 HP; FUEL: GASOLINE; 4S-RB; CONTROL: NONE; 8,760.000 HRS/YR; PERMIT STATUS: UN-MODIFIED; COMMENTS: GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	NOX	0.070	0.307
			CO	2.830	12.395
			SO2	0.003	0.012
			PM10	0.003	0.015
			PM2.5		
			H2S	0.000	0.000
			Lead		
			VOC-total	0.070	0.306
			VOC-u		
			VOC-HAP-total	0.020	0.088
			ACETALDEHYDE	0.000	0.000
			ACROLEIN	0.000	0.000
			BENZENE	0.000	0.000
			DICHLOROBENZENE		
			ETHYLBENZENE		
			FORMALDEHYDE	0.020	0.088
			HEXANE-N		
			METHANOL		
			TOLUENE	0.000	0.000
			XYLENE-M	0.000	0.000
			XYLENE-O		
			XYLENE-P		
			VOC(HAP)-u		
			METHANE	0.000	0.000
			ETHANE	0.000	0.000
			CO2	5.174	22.664
				8.191	35.875

EPN = Emission Point Number; FIN = Facility Identification Number

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
EPN	FIN	NAME		PPH	TPY
(A)	(B)	(C)		(A)	(B)
SITE-WIDE TOTAL	SITE-WIDE TOTAL	SITE-WIDE TOTAL	NOX	0.672	2.944
			CO	11.649	51.024
			SO2	0.014	0.060
			PM10	0.106	0.192
			PM2.5	0.092	0.134
			H2S	0.002	0.008
			Lead	0.000	0.000
			VOC-total	59.808	24.895
			VOC-u	0.291	0.215
			VOC-HAP-total	2.952	0.888
			ACETALDEHYDE	0.000	0.000
			ACROLEIN	0.000	0.000
			BENZENE	0.515	0.059
			DICHLOROBENZENE	0.000	0.000
			ETHYLBENZENE	0.471	0.025
			FORMALDEHYDE	0.080	0.352
			HEXANE-N	0.885	0.357
			METHANOL		
			TOLUENE	0.514	0.057
			XYLENE-M	0.486	0.037
			XYLENE-O	0.000	0.000
			XYLENE-P		
			VOC(HAP)-u		
			METHANE	0.009	0.040
			ETHANE	0.012	0.053
			CO2	498.010	2,156.890

EPN = Emission Point Number; FIN = Facility Identification Number

576.5692,238.232

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:	PI-7-CERT Registration	RN Number:	RN106501851	Date:	3/11/2024
Company Name:	Ineos USA Oil & Gas LLC				

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS						
1. Emission Point			4. UTM Coordinates of Emission Point			Source						
EPN (A)	FIN (B)	NAME (C)	Zone	East (Meters)	North (Meters)	5. Ht. AGL (Feet)	6. Stack Exit Data			7. Fugitives		
							Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)
HT1	HT1	; MAKE: UNKNOWN; MODEL: UNKNOWN; NATURAL GAS; 1.000 MMBTU/HR; 8,760.000 HRS/YR; UNCONTROLLED; HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)	14R	528,720	3,162,011	20.00	1.00	8.94	850			
HT2	HT2	; MAKE: UNKNOWN; MODEL: UNKNOWN; NATURAL GAS; 1.000 MMBTU/HR; 8,760.000 HRS/YR; UNCONTROLLED; HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)	14R	528,720	3,162,011	20.00	1.00	8.94	850			
HT3	HT3	; MAKE: UNKNOWN; MODEL: UNKNOWN; NATURAL GAS; 1.000 MMBTU/HR; 8,760.000 HRS/YR; UNCONTROLLED; HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)	14R	528,720	3,162,011	20.00	1.00	8.94	850			

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:	PI-7-CERT Registration	RN Number:	RN106501851	Date:	3/11/2024
Company Name:	Ineos USA Oil & Gas LLC				

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS						
1. Emission Point			4. UTM Coordinates of Emission Point			Source						
EPN (A)	FIN (B)	NAME (C)	Zone	East (Meters)	North (Meters)	5. Ht. AGL (Feet)	6. Stack Exit Data		Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)
HT4	HT4	; MAKE: UNKNOWN; MODEL: UNKNOWN; NATURAL GAS; 1.000 MMBTU/HR; 8,760.000 HRS/YR; UNCONTROLLED; HEATER-TREATER; VENTING TO ATMOSPHERE; 106.352(L)	14R	528,720	3,162,011	20.00	1.00	8.94	850			
TANK1	TANK1	: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBL/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	21.00	0.50	0.00	90			
TANK2	TANK2	: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBL/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	21.00	0.50	0.00	90			

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024
Company Name:						Ineos USA Oil & Gas LLC							
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.													
AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS							
1. Emission Point						4. UTM Coordinates of Emission Point			Source				
						5.		6. Stack Exit Data			7. Fugitives		
EPN (A)	FIN (B)	NAME (C)	Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)	
TANK17	TANK17	: PRODUCED WATER @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 0.026 TURN-OVERS/YR; 0.028 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	21.00	0.50	0.00	90				
TANK3	TANK3	: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	21.00	0.50	0.00	90				
TANK4	TANK4	: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	21.00	0.50	0.00	90				

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024	
Company Name:				Ineos USA Oil & Gas LLC										
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.														
AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS								
1. Emission Point						4. UTM Coordinates of Emission Point			Source					
						5.	6. Stack Exit Data			7. Fugitives				
EPN (A)	FIN (B)	NAME (C)			Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)
TANK5	TANK5	: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			14R	528,720	3,162,011	21.00	0.50	0.00	90			
TANK6	TANK6	TANK 7: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			14R	528,720	3,162,011	21.00	0.50	0.00	90			
TANK7	TANK7	TANK 8: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			14R	528,720	3,162,011	21.00	0.50	0.00	90			

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024
Company Name:						Ineos USA Oil & Gas LLC							
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.													
AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS							
1. Emission Point						4. UTM Coordinates of Emission Point			Source				
						5.		6. Stack Exit Data			7. Fugitives		
EPN (A)	FIN (B)	NAME (C)	Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)	
TANK8	TANK8	TANK 9: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	21.00	0.50	0.00	90				
TANK9	TANK9	TANK 10: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	21.00	0.50	0.00	90				
TANK10	TANK10	TANK 11: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	21.00	0.50	0.00	90				

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024
Company Name:					Ineos USA Oil & Gas LLC								
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.													
AIR CONTAMINANT DATA					EMISSION POINT DISCHARGE PARAMETERS								
1. Emission Point					4. UTM Coordinates of Emission Point			Source					
								5.		6. Stack Exit Data		7. Fugitives	
EPN (A)	FIN (B)	NAME (C)		Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)
TANK11	TANK11	TANK 12: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)		14R	528,720	3,162,011	21.00	0.50	0.00	90			
TANK12	TANK12	TANK 13: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)		14R	528,720	3,162,011	21.00	0.50	0.00	90			
TANK13	TANK13	TANK 14: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)		14R	528,720	3,162,011	21.00	0.50	0.00	90			

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024	
Company Name:						Ineos USA Oil & Gas LLC								
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.														
AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS								
1. Emission Point						4. UTM Coordinates of Emission Point			Source					
						5.		6. Stack Exit Data			7. Fugitives			
EPN (A)	FIN (B)	NAME (C)			Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)
TANK14	TANK14	TANK 15: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			14R	528,720	3,162,011	21.00	0.50	0.00	90			
TANK15	TANK15	TANK 16: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			14R	528,720	3,162,011	21.00	0.50	0.00	90			
TANK16	TANK16	TANK 17: STABILIZED CRUDE @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 1.283 TURN-OVERS/YR; 1.406 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: CRUDE TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)			14R	528,720	3,162,011	21.00	0.50	0.00	90			

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024
Company Name:				Ineos USA Oil & Gas LLC									
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.													
AIR CONTAMINANT DATA				EMISSION POINT DISCHARGE PARAMETERS									
1. Emission Point				4. UTM Coordinates of Emission Point			Source						
							5.	6. Stack Exit Data			7. Fugitives		
EPN (A)	FIN (B)	NAME (C)		Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)
TANK18	TANK18	TANK 19: PRODUCED WATER @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 0.026 TURN-OVERS/YR; 0.028 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)		14R	528,720	3,162,011	21.00	0.50	0.00	90			
TANK19	TANK19	TANK 20: PRODUCED WATER @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 0.026 TURN-OVERS/YR; 0.028 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)		14R	528,720	3,162,011	21.00	0.50	0.00	90			
TANK20	TANK20	TANK 21: PRODUCED WATER @ 9.610 PSIA; SERIAL NO.: UNKNOWN; TYPE/SIZE: VFR; 16,800.000 GALLONS; THROUGHPUT: 0.026 TURN-OVERS/YR; 0.028 BBLS/D; 8,760.000 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; STATUS: EXISTING; COMMENTS: PRODUCED WATER TANK; 400 BBL; VENTING TO ATMOSPHERE; 106.352(l)		14R	528,720	3,162,011	21.00	0.50	0.00	90			

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024
Company Name:				Ineos USA Oil & Gas LLC									
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.													
AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS							
1. Emission Point						4. UTM Coordinates of Emission Point		Source					
						5.		6. Stack Exit Data			7. Fugitives		
EPN (A)	FIN (B)	NAME (C)	Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)	
C LOAD 1	C LOAD 1	LOADING 1: STABILIZED CRUDE @ 8.74553752 PSIA; THROUGHPUT: 344,925.000 GALLONS/YR; 22.500 BBLS/D; 45.625 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; COMMENTS: CRUDE LOADING; VENTING TO ATMOSPHERE; 106.352(L)	14R	528,720	3,162,011	8.00	0.50	0.23	90				
PW LOAD 1	PW LOAD 1	LOADING 2: PRODUCED WATER @ 8.74553752 PSIA; THROUGHPUT: 172,462.500 GALLONS/YR; 11.250 BBLS/D; 22.813 HRS/YR; PRIMARY/SECONDARY CONTROLS: TO AIR / TO AIR; COMMENTS: PRODUCED WATER LOADING; ASSUMED 1% CRUDE BY VOLUME; VENTING TO ATMOSPHERE; 106.352(L)	14R	528,720	3,162,011	8.00	0.50	0.00	90				
HT1-FLASH	HT1-FLASH	FLASH 1: CRUDE/NATURAL GAS; THROUGHPUT: 2,063.391 BBLS/YR; 5.653 BBLS/D; FLASHING FROM 110.000 PSIG TO 14.270 PSIG; PRIMARY/SECONDARY CONTROLS: TO ATMOSPHERE / TO ATMOSPHERE; COMMENTS: HEATER- TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	30.00	1.00	0.00	80				

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024
Company Name:				Ineos USA Oil & Gas LLC									
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.													
AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS							
1. Emission Point						4. UTM Coordinates of Emission Point		Source					
						5.	6. Stack Exit Data			7. Fugitives			
EPN (A)	FIN (B)	NAME (C)	Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)	
HT2-FLASH	HT2-FLASH	FLASH 2: CRUDE/NATURAL GAS; THROUGHPUT: 2,063.391 BBLS/YR; 5.653 BBLS/D; FLASHING FROM 110.000 PSIG TO 14.270 PSIG; PRIMARY/SECONDARY CONTROLS: TO ATMOSPHERE / TO ATMOSPHERE; COMMENTS: HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	30.00	1.00	0.00	80				
HT3-FLASH	HT3-FLASH	FLASH 3: CRUDE/NATURAL GAS; THROUGHPUT: 2,063.391 BBLS/YR; 5.653 BBLS/D; FLASHING FROM 110.000 PSIG TO 14.270 PSIG; PRIMARY/SECONDARY CONTROLS: TO ATMOSPHERE / TO ATMOSPHERE; COMMENTS: HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	30.00	1.00	0.00	80				
HT4-FLASH	HT4-FLASH	FLASH 4: CRUDE/NATURAL GAS; THROUGHPUT: 2,063.391 BBLS/YR; 5.653 BBLS/D; FLASHING FROM 110.000 PSIG TO 14.270 PSIG; PRIMARY/SECONDARY CONTROLS: TO ATMOSPHERE / TO ATMOSPHERE; COMMENTS: HEATER-TREATER CRUDE FLASH VAPORS; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	30.00	1.00	0.00	80				

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024	
Company Name:						Ineos USA Oil & Gas LLC								
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.														
AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS								
1. Emission Point						4. UTM Coordinates of Emission Point			Source					
						5.		6. Stack Exit Data			7. Fugitives			
EPN (A)	FIN (B)	NAME (C)	Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)		
FUG	FUG	FUGITIVES 1; LIGHT-LIQUID COMPONENTS / NATURAL GAS COMPONENTS / : 8,760.000 HRS/YR; MONITORING PROGRAM: / / / ; COMMENTS: SITE FUGITIVE EMISSIONS; 106.352(l)	14R	528,720	3,162,011	3.00	0.01	0.01	90					
MSS 1	MSS 1	BLOW DOWNS 1: THROUGHPUT: 25.000 SCF/BLOWDOWN @ 25.00 BLOWDOWNS/MONTH; 0.008 MMSCF/YR; 300.000 HRS/YR; COMMENTS: MSS ACTIVITY; VAPORS VENTED TO ATMOSPHERE DURING MSS ACTIVITIES; 106.359	14R	528,720	3,162,011	20.00	0.50	0.00	90					
MSS 2	MSS 2	BLOW DOWNS 2: THROUGHPUT: 5,620.000 SCF/BLOWDOWN @ 0.08 BLOWDOWNS/MONTH; 0.006 MMSCF/YR; 1.000 HRS/YR; COMMENTS: MSS ACTIVITY; STORAGE TANK DE-GASSING DURING MAINTENANCE ACTIVITY; ASSUME DE-GASSING 1 TANK/YEAR; VENTS TO ATMOSPHERE; 106.359	14R	528,720	3,162,011	20.00	0.50	0.26	90					

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024
Company Name:				Ineos USA Oil & Gas LLC									
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.													
AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS							
1. Emission Point						4. UTM Coordinates of Emission Point			Source				
						5.		6. Stack Exit Data			7. Fugitives		
EPN (A)	FIN (B)	NAME (C)	Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)	
MSS 3	MSS 3	BLOW DOWNS 3: THROUGHPUT: 1,200.000 SCF/BLOWDOWN @ 1.00 BLOWDOWNS/MONTH; 0.115 MMSCF/YR; 96.000 HRS/YR; COMMENTS: MSS ACTIVITIES; MISC. ABRASIVE BLASTING/COATING ACTIVITIES; VENTS TO ATMOSPHERE; AREA SOURCE; 106.359	14R	528,720	3,162,011	3.00	0.25	0.08	90				
VENTING 1	VENTING 1	BLOW DOWNS 4: THROUGHPUT: 2.250 SCF/BLOWDOWN @ 182.50 BLOWDOWNS/MONTH; 0.005 MMSCF/YR; 2,190.000 HRS/YR; COMMENTS: PNEUMATIC DEVICE; VENTING TO ATMOSPHERE; 106.352(l)	14R	528,720	3,162,011	3.00	0.25	0.00	90				
ENG3	ENG3	LIQUID FUEL ENGINE 1: HONDA GX160; SERIAL NO.: GCBPT-1482761; 4.8 HP; FUEL: GASOLINE; 4S-RB; CONTROL: NONE; 8,760.000 HRS/YR; PERMIT STATUS: UN-MODIFIED; COMMENTS: GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	14R	528,720	3,162,011	2.00	0.08	3,080.36	1,200				

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Note:

1

A VALUE OF 0.000 INDICATES VALUE IS <0.0005

Permit Number:		PI-7-CERT Registration				RN Number:		RN106501851				Date:	3/11/2024	
Company Name:				Ineos USA Oil & Gas LLC										
Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.														
AIR CONTAMINANT DATA				EMISSION POINT DISCHARGE PARAMETERS										
1. Emission Point				4. UTM Coordinates of Emission Point			Source							
							5.		6. Stack Exit Data			7. Fugitives		
EPN (A)	FIN (B)	NAME (C)	Zone	East (Meters)	North (Meters)	Ht. AGL (Feet)	Dia. (Feet) (A)	Velocity (fps) (B)	Temp. (f) (C)	Len. (ft.) (A)	Wid. (ft.) (B)	Axis Degrees (C)		
ENG4	ENG4	LIQUID FUEL ENGINE 2: HONDA GX160; SERIAL NO.: GCBPT-1482912; 4.8 HP; FUEL: GASOLINE; 4S-RB; CONTROL: NONE; 8,760.000 HRS/YR; PERMIT STATUS: UN-MODIFIED; COMMENTS: GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	14R	528,720	3,162,011	2.00	0.08	3,080.36	1,200					
ENG5	ENG5	LIQUID FUEL ENGINE 3: HONDA GX160; SERIAL NO.: GCBPT-1482762; 4.8 HP; FUEL: GASOLINE; 4S-RB; CONTROL: NONE; 8,760.000 HRS/YR; PERMIT STATUS: UN-MODIFIED; COMMENTS: GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	14R	528,720	3,162,011	2.00	0.08	2,373.40	1,200					
ENG6	ENG6	LIQUID FUEL ENGINE 4: HONDA GX160; SERIAL NO.: GCBPT-1482911; 4.8 HP; FUEL: GASOLINE; 4S-RB; CONTROL: NONE; 8,760.000 HRS/YR; PERMIT STATUS: UN-MODIFIED; COMMENTS: GASOLINE FIRED PUMP ENGINE; 106.512; UN-MODIFIED	14R	528,720	3,162,011	2.00	0.08	2,373.40	1,200					



Texas Commission on Environmental Quality
Table 29 Reciprocating Engines

I. Engine Data															
Manufacturer:				Model No.:				Serial No.:				Manufacture Date:			
HONDA				GX160				GCBPT-1482761				4/1/2013			
Rebuild Date:				No. of Cylinders:				Compression Ratio:				EPN:			
NA				1				9.01:1				ENG3			
Application:		Gas Compression				Electric Generation				Refrigeration				Emergency/Stand-by	
X	4 Stroke Cycle		2 Stroke Cycle	X	Carbureted	X	Spark Ignited		Dual Fuel		Fuel Injected				
	Diesel	X	Naturally Aspirated		Blower/Pump Scavenged		Turbo Chared and I.C.		Turbo Charged						
	Intercooled		I.C. Water Temperature					Lean Burn	X	Rich Burn					
Ignition/Injection Timing:			Fixed: Yes					Variable:							
Manufacture Horsepower Rating:				4.8				Proposed Horsepower Rating:				4.80			
Discharge Parameters															
Stack Height (Feet)				Stack Diameter (Feet)				Stack Temperature (deg. F)				Exit Velocity (FPS)			
2.00				0.08				1,200.00				3,080.361			
II. Fuel Data															
Type of Fuel:		Field Gas		Landfill Gas		LP Gas		Natural Gas		Digester Gas		Diesel			
Fuel Use (BTU/bhp-hr):				####		Heat Value		132,000.00		(HHV)		132,000.00 (LHV)			
Sulfur Content (grains/100 scf - weight %):															
III. Emission Factors (Before Control)															
NO x		CO		SO2		VOC		F-aldehyde		PM10					
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv		
6.62		267.44		2.667E-01		6.60		1.890		0.318					
Source of Emission Factors:				X	Manufacturer Data		X	AP-42	Other (specify):						
IV. Emission Factors (Post Control)															
NO x		CO		SO2		VOC		F-aldehyde		PM10					
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv		
6.62		267.44		2.667E-01		6.60		1.890		0.318					
Method of Emissions Control:				NSCR Catalyst		Lean Operation		Parameter Adjustment							
Stratified Charge				JLCC Catalyst		Other (specify):									
<i>Note : Must submit a copy of any manufacturer control information that demonstrates control efficiency.</i>															
Is Formaldehyde included in VOC?									X	Yes		No			
V. Federal and State Standards (check all that apply)															
X	NSPS JJJJ	X	MACT ZZZZ		NSPS IIII		Title 30 Chapter 117 - List County:	Mc Mullen							
VI. Additional Information															
1. Submit a copy of the engine manufacturer's site rating or general rating specification data.															
2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gasaeous fuels, provide mole percent of constituents.															
3. Submit description of air/fuel ratio control system (manufacturer information is acceptable).															

TCEQ-10195 (Revised 11/11) Table 29 Reciprocating Engines

This form is for use by facilities subject to air quality permit requirements and
may be revised periodically. (APDG 6002v3)



Texas Commission on Environmental Quality
Table 29 Reciprocating Engines

I. Engine Data													
Manufacturer: HONDA				Model No.: GX160				Serial No.: GCBPT-1482912				Manufacture Date: 4/1/2013	
Rebuild Date: NA				No. of Cylinders: 1				Compression Ratio: 9.01:1				EPN: ENG4	
Application:		Gas Compression				Electric Generation				Refrigeration		Emergency/Stand-by	
X	4 Stroke Cycle		2 Stroke Cycle	X	Carbureted	X	Spark Ignited		Dual Fuel		Fuel Injected		
	Diesel	X	Naturally Aspirated		Blower/Pump Scavenged				Turbo Chared and I.C.			Turbo Charged	
	Intercooled		I.C. Water Temperature				Lean Burn		X	Rich Burn			
Ignition/Injection Timing:			Fixed: Yes					Variable:					
Manufacture Horsepower Rating: 4.8				Proposed Horsepower Rating: 4.80									
Discharge Parameters													
Stack Height (Feet)				Stack Diameter (Feet)				Stack Temperature (deg. F)				Exit Velocity (FPS)	
2.00				0.08				1,200.00				3,080.361	
II. Fuel Data													
Type of Fuel:		Field Gas		Landfill Gas		LP Gas		Natural Gas		Digester Gas		Diesel	
Fuel Consumption (BTU/bhp-hr):				Heat Value 132,000.00 (HHV)				132,000.00 (LHV)					
Sulfur Content (grains/100 scf - weight %):				1.114E+00									
III. Emission Factors (Before Control)													
NO x		CO		SO2		VOC		F-aldehyde		PM10			
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv
6.62		267.44		2.667E-01		6.60		1.890		0.318			
Source of Emission Factors:		X	Manufacturer Data		X	AP-42		Other (specify):					
IV. Emission Factors (Post Control)													
NO x		CO		SO2		VOC		F-aldehyde		PM10			
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv
6.62		267.44		2.667E-01		6.60		1.890		0.318			
Method of Emissions Control:		NSCR Catalyst		Lean Operation		Parameter Adjustment							
Stratified Charge		JLCC Catalyst		Other (specify):									
Note : Must submit a copy of any manufacturer control information that demonstrates control efficiency.													
Is Formaldehyde included in VOC?								X	Yes		No		
V. Federal and State Standards (check all that apply)													
X	NSPS JJJJ	X	MACT ZZZZ		NSPS IIII		Title 30 Chapter 117 - List County:	Mc Mullen					
VI. Additional Information													
1. Submit a copy of the engine manufacturer's site rating or general rating specification data.													
2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gasaeous fuels, provide mole percent of constituents.													
3. Submit description of air/fuel ratio control system (manufacturer information is acceptable).													

TCEQ-10195 (Revised 11/11) Table 29 Reciprocating Engines

This form is for use by facilities subject to air quality permit requirements and

may be revised periodically. (APDG 6002v3)



Texas Commission on Environmental Quality
Table 29 Reciprocating Engines

I. Engine Data															
Manufacturer:				Model No.:				Serial No.:				Manufacture Date:			
HONDA				GX160				GCBPT-1482762				4/1/2013			
Rebuild Date:				No. of Cylinders:				Compression Ratio:				EPN:			
NA				1				9.01:1				ENG5			
Application:		Gas Compression				Electric Generation				Refrigeration				Emergency/Stand-by	
X	4 Stroke Cycle		2 Stroke Cycle	X	Carbureted	X	Spark Ignited		Dual Fuel		Fuel Injected				
	Diesel	X	Naturally Aspirated		Blower/Pump Scavenged		Turbo Chared and I.C.		Turbo Charged						
	Intercooled		I.C. Water Temperature		Lean Burn	X	Rich Burn								
Ignition/Injection Timing:				Fixed: Yes				Variable:							
Manufacture Horsepower Rating:				4.8				Proposed Horsepower Rating:				4.80			
Discharge Parameters															
Stack Height (Feet)				Stack Diameter (Feet)				Stack Temperature (deg. F)				Exit Velocity (FPS)			
2.00				0.08				1,200.00				2,373.398			
II. Fuel Data															
Type of Fuel:		Field Gas		Landfill Gas		LP Gas		Natural Gas		Digester Gas		Diesel			
Fuel Consumption (BTU/bhp-hr):				Heat Value 132,000.00 (HHV)				132,000.00 (LHV)							
Sulfur Content (grains/100 scf - weight %):				1.114E+00											
III. Emission Factors (Before Control)															
NO x		CO		SO2		VOC		F-aldehyde		PM10					
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv		
6.62		267.44		2.667E-01		6.60		1.890		0.318					
Source of Emission Factors:				X	Manufacturer Data		X	AP-42	Other (specify):						
IV. Emission Factors (Post Control)															
NO x		CO		SO2		VOC		F-aldehyde		PM10					
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv		
6.62		267.44		2.667E-01		6.60		1.890		0.318					
Method of Emissions Control:				NSCR Catalyst				Lean Operation				Parameter Adjustment			
Stratified Charge				JLCC Catalyst				Other (specify):							
<i>Note : Must submit a copy of any manufacturer control information that demonstrates control efficiency.</i>															
Is Formaldehyde included in VOC?								X	Yes		No				
V. Federal and State Standards (check all that apply)															
X	NSPS JJJJ	X	MACT ZZZZ		NSPS IIII		Title 30 Chapter 117 - List County:	Mc Mullen							
VI. Additional Information															
1. Submit a copy of the engine manufacturer's site rating or general rating specification data.															
2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gasaeous fuels, provide mole percent of constituents.															
3. Submit description of air/fuel ratio control system (manufacturer information is acceptable).															

TCEQ-10195 (Revised 11/11) Table 29 Reciprocating Engines

This form is for use by facilities subject to air quality permit requirements and
may be revised periodically. (APDG 6002v3)



Texas Commission on Environmental Quality
Table 29 Reciprocating Engines

I. Engine Data												
Manufacturer:			Model No.:				Serial No.:			Manufacture Date:		
HONDA			GX160				GCBPT-1482911			4/1/2013		
Rebuild Date:			No. of Cylinders:				Compression Ratio:			EPN:		
NA			1				9.01:1			ENG6		
Application:		Gas Compression			Electric Generation			Refrigeration			Emergency/Stand-by	
X	4 Stroke Cycle		2 Stroke Cycle	X	Carbureted	X	Spark Ignited		Dual Fuel		Fuel Injected	
	Diesel	X	Naturally Aspirated		Blower/Pump Scavenged				Turbo Chared and I.C.		Turbo Charged	
	Intercooled		I.C. Water Temperature						Lean Burn	X	Rich Burn	
Ignition/Injection Timing:		Fixed: Yes					Variable:					
Manufacture Horsepower Rating:				4.8		Proposed Horsepower Rating:				4.80		
Discharge Parameters												
Stack Height (Feet)			Stack Diameter (Feet)			Stack Temperature (deg. F)			Exit Velocity (FPS)			
2.00			0.08			1,200.00			2,373.398			
II. Fuel Data												
Type of Fuel:		Field Gas		Landfill Gas		LP Gas		Natural Gas		Digester Gas		Diesel
Fuel Consumption (BTU/bhp-hr):				Heat Value		132,000.00		(HHV)		132,000.00		(LHV)
Sulfur Content (grains/100 scf - weight %):				1.114E+00								
III. Emission Factors (Before Control)												
NO x		CO		SO2		VOC		F-aldehyde		PM10		
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	
6.62		267.44		2.667E-01		6.60		1.890		0.318		
Source of Emission Factors:		X	Manufacturer Data		X	AP-42		Other (specify):				
IV. Emission Factors (Post Control)												
NO x		CO		SO2		VOC		F-aldehyde		PM10		
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	
6.62		267.44		2.667E-01		6.60		1.890		0.318		
Method of Emissions Control:		NSCR Catalyst		Lean Operation		Parameter Adjustment						
	Stratified Charge	JLCC Catalyst		Other (specify):								
<i>Note : Must submit a copy of any manufacturer control information that demonstrates control efficiency.</i>												
Is Formaldehyde included in VOC?								X	Yes		No	
V. Federal and State Standards (check all that apply)												
X	NSPS JJJJ	X	MACT ZZZZ		NSPS IIII		Title 30 Chapter 117 - List County:	Mc Mullen				
VI. Additional Information												
1. Submit a copy of the engine manufacturer's site rating or general rating specification data.												
2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gasaeous fuels, provide mole percent of constituents.												
3. Submit description of air/fuel ratio control system (manufacturer information is acceptable).												

TCEQ-10195 (Revised 11/11) Table 29 Reciprocating Engines

This form is for use by facilities subject to air quality permit requirements and
may be revised periodically. (APDG 6002v3)

Ineos USA Oil & Gas LLC
Corner S Ranch Mcm B Pad
Fowlerton, Mc Mullen County, Texas
PI-7-CERT Registration

2.10 Supporting Documentation/Simulations

COMPANY	Ineos USA Oil & Gas LLC
SITE NAME	Corner S Ranch Mcm B Pad
DATE	03/11/24
TANK TYPE	VERTICLE FIXED ROOF
TANK TYPE	UN-INSULATED
TANK TYPE	CONE ROOF
FILL TYPE	SUBMERGED LOADING
CITY/STATE	SAN ANTONIO, TEXAS
TANK PAINT	BLACK
TANK CONDITION	AGED
TANK CONTENTS	CRUDE (RVP 10.5)
EPN	TANK1: STABILIZED CRUDE

SYMBOL	EPN	UNITS	VALUE	AP-42 EQUATION REFERENCE	COMMENTS
Q		BBLS/YR	513.281		FILLING RATE
D _{VERT}		FT	12.000		DIAMETER (VERTICLE TANKS)
H _S		FT	19.860		SHELL HEIGHT
H _L		FT	9.930		LIQUID HEIGHT (1/2 OF SHELL HEIGHT)
K _P		DIMENSIONLESS	0.750		PRODUCT FACTOR (0.75 FOR CRUDE, 1.0 FOR ALL OTHER PRODUCTS)

CALCULATE TOTAL TANK LOSS

L _T	LT = LS + LW	LBS/YR	489.687	1-1	TOTAL ROUTINE LOSSES
L _S	365*V _V *W _V *K _E *K _S	LBS/YR	354.332	1-2	STANDING LOSSES
L _W	V _Q *K _N *K _P *W _V *K _B	LBS/YR	135.355	1-35	WORKING LOSSES

CALCULATE STANDING LOSS

V _V	[(PI*D ²)/4]*H _{VO}	CF	1,137.194	1-3	VAPOR SPACE VOLUME
W _V	(M _V *P _{VA} /(R*T _V))	LBS/CF	0.063		STOCK VAPOR DENSITY
K _E	DELTA T _V /T _{LA} +(DELTA P _V -DELTA P _A)/T _{LA}	PER DAY	0.338	1-5	VAPOR SPACE EXAPNSION FACTOR
K _E	0.0018*[0.7*(T _{AX} -T _{AN})+0.02*a*I]	PER DAY	0.077	1-12	VAPOR SPACE EXAPNSION FACTOR (IF TANK LOCATION, COLOR & CO
K _S	1/(1+0.053*P _{VA} *H _{VO})	DIMENSIONLESS	0.177	1-21	VENTED VAPOR SATURATION FACTOR
H _{VO-VERT}	H _S -H _L +H _{RO}	FT	10.055	1-16	VAPOR SPACE OUTAGE (VERTICLE TANKS)
T _{AX}		DEG. R	539.500		AVERAGE DAILY MAXIMUM AMBIENT TEMPERATURE
T _{AN}		DEG. R	519.200		AVERAGE DAILY MINIMUM AMBIENT TEMPERATURE
a		NONE	0.970		TANK SURFACE SOLAR ABSORBANCE
I		BTU/FT ² -DAY	1,477.000		AVE. DAILY TOTAL INSOLATION ON HORIZONTAL SURFACE
M _V		LBS/LB-MOLE	41.770		VAPOR MOLECULAR WT.
H _{RO-CONE}	1/3*0.0625*R _S	FT	0.125	1-17	ROOF OUTAGE (CONE ROOF)
R _S		FT	6.000		TANK SHELL RADIUS
K _S	[1/(1+0.053*P _{VA} *H _{VO})]	DIMENSIONLESS	0.177	1-21	VENTED VAPOR SATURATION FACTOR
P _{VA}		PSIA	8.746		V.P. @ AVE. DAILY LIQUID SURFACE TEMPERATURE
W _V	M _V *P _{VA} /(R*T _V))	LBS/CF	0.063		STOCK VAPOR DENSITY
R		PSIA*CF/(LB-MOLE*°F)	10.731		IDEAL GAS CONSTANT
T _V	0.7*T _{AA} +0.30*T _B +0.009*a*I	DEG. R	543.534		AVERAGE VAPOR TEMPERATURE
T _{AA}	(T _{AX} +T _{AN})/2	DEG. R	529.350		AVE. DAILY AMBIENT TEMP.
T _B	T _{AA} +0.003*a*I	DEG. R	533.648	1-31	LIQUID BULK TEMP.
T _{LA}	0.4*T _{AA} +0.6*T _B +0.005*a*I	DEG. R	539.092	1-28	AVE. DAILY LIQUID SURFACE TEMP
DELTA T _V	0.7*DELTA T _A +0.02*a*I	DEG. R	42.864	1-7	AVE. DAILY VAPOR TEMP. RANGE
DELTA T _A	T _{AX} -T _{AN}	DEG. R	20.300	1-7	AVE. DAILY AMBIENT TEMP. RANGE
P _{VX}		PSIA	9.610	1-9	AVE. DAILY MAXIMUM VAPOR PRESSURE
P _{VN}		PSIA	8.121	1-9	AVE. DAILY MINIMUM VAPOR PRESSURE
P _{BP}		PSIA	0.030		BREATHING VENT PRESSURE SETTING
P _{BV}		PSIA	(0.030)		BREATHING VENT VACUUM SETTING
DELTA P _V	P _{VX} -P _{VN}	PSIA	1.489	1-9	AVE. DAILY VAPOR PRESSURE RANGE
DELTA P _B	P _{BP} -P _{BV}		0.060	1-10	BREATHING VENT PRESSURE SETTING RANGE
P _A		PSIA	14.270		ATMOSPHERIC PRESSURE
T _{LX}	T _{LA} +0.25*DELTA T _V	DEG. R	549.808		MAXIMUM LIQUID TEMPERATURE
T _{LN}	T _{LA} -0.25*DELTA T _V	DEG. R	528.376		MINIMUM LIQUID TEMPERATURE
T _{LX}		DEG. F	90.108		MAXIMUM LIQUID TEMPERATURE
T _{LN}		DEG. F	68.676		MINIMUM LIQUID TEMPERATURE

COMPANY	Ineos USA Oil & Gas LLC
SITE NAME	Corner S Ranch Mcm B Pad
DATE	03/11/24
TANK TYPE	VERTICLE FIXED ROOF
TANK TYPE	UN-INSULATED
TANK TYPE	CONE ROOF
FILL TYPE	SUBMERGED LOADING
CITY/STATE	SAN ANTONIO, TEXAS
TANK PAINT	BLACK
TANK CONDITION	AGED
TANK CONTENTS	CRUDE (RVP 10.5)
EPN	TANK1: STABILIZED CRUDE

CALCULATE WORKING LOSS

L_W	$V_Q * K_N * K_P * W_V * K_B$	LBS/YR	135	1-35	WORKING LOSSES
V_Q	$5.614 * Q$	CF/YR	2,882		NET WORKING LOSS THROUGHPUT
K_N		DIMENSIONLESS	1.00		WORKING LOSS TURNOVER SATURATION FACTOR (FOR FLASHING TA
K_B		DIMENSIONLESS	1.00		VENT SETTING CORRECTION FACTOR; FOR OPEN VENTS & +/-0.03 PSIG
K_P		DIMENSIONLESS	0.750		PRODUCT FACTOR (1.0 FOR CRUDE, 0.75 FOR ALL OTHER PRODUCTS)
W_V	$(M_V * P_{VA}) / (R * T_V)$	LBS/CF	0.063		STOCK VAPOR DENSITY

VAPOR PRESSURE CALCULATIONS AT MAX. LIQUID TEMPERATURE

T_{LX}		DEG. F	90.000		MAXIMUM LIQUID TEMPERATURE LOWER LIMIT
T_{LX}		DEG. F	100.000		MAXIMUM LIQUID TEMPERATURE UPPER LIMIT
T_{LN}		DEG. F	60.000		MINIMUM LIQUID TEMPERATURE LOWER LIMIT
T_{LN}		DEG. F	70.000		MINIMUM LIQUID TEMPERATURE UPPER LIMIT

DEG. F	PSIA
40.000	6.600
50.000	7.100
60.000	7.600
70.000	8.200
80.000	8.800
90.000	9.600
100.000	10.500

	DEG. F (LOWER LIMIT)	DEG. F (UPPER LIMIT VP @ T_{LX})	P_{VX}
T_{LX}	90.000	100.000	9.6097
		VP @ T_{LN}	P_{VN}
T_{LN}	60.000	70.000	8.12058

VAPOR PRESSURE CALCULATIONS AT AVE. LIQUID TEMPERATURE

T_{LA}	$0.4 * T_{AA} + 0.6 * T_B + 0.005 * a * I$	DEG. F	79.0923		AVE. DAILY LIQUID SURFACE TEMP
T_{LX}		DEG. F	70.000		AVE. DAILY LIQUID SURFACE TEMP LOWER LIMIT
T_{LX}		DEG. F	80.000		AVE. DAILY LIQUID SURFACE TEMP UPPER LIMIT

DEG. F	PSIA
40.000	6.600
50.000	7.100
60.000	7.600
70.000	8.200
80.000	8.800
90.000	9.600
100.000	10.500

	DEG. F (LOWER LIMIT)	DEG. F (UPPER LIMIT VP @ T_{LA})	P_{VA}
T_{LA}	70.000	80.000	8.7455

COMPANY	Ineos USA Oil & Gas LLC
SITE NAME	Corner S Ranch Mcm B Pad
DATE	03/11/24
TANK TYPE	VERTICLE FIXED ROOF
TANK TYPE	UN-INSULATED
TANK TYPE	CONE ROOF
FILL TYPE	SUBMERGED LOADING
CITY/STATE	SAN ANTONIO, TEXAS
TANK PAINT	BLACK
TANK CONDITION	AGED
TANK CONTENTS	CRUDE (RVP 10.5)
EPN	TANK17: PRODUCED WATER

SYMBOL	EPN	UNITS	VALUE	AP-42 EQUATION REFERENCE	COMMENTS
Q		BBLS/YR	1,026.563		FILLING RATE
D _{VERT}		FT	12.000		DIAMETER (VERTICLE TANKS)
H _S		FT	19.860		SHELL HEIGHT
H _L		FT	9.930		LIQUID HEIGHT (1/2 OF SHELL HEIGHT)
K _P		DIMENSIONLESS	0.750		PRODUCT FACTOR (0.75 FOR CRUDE, 1.0 FOR ALL OTHER PRODUCTS)

CALCULATE TOTAL TANK LOSS

L _T	LT = LS + LW	LBS/YR	625.041	1-1	TOTAL ROUTINE LOSSES
L _S	365*V _V *W _V *K _E *K _S	LBS/YR	354.332	1-2	STANDING LOSSES
L _W	V _Q *K _N *K _P *W _V *K _B	LBS/YR	270.709	1-35	WORKING LOSSES

CALCULATE STANDING LOSS

V _V	[(PI*D ²)/4]*H _{VO}	CF	1,137.194	1-3	VAPOR SPACE VOLUME
W _V	(M _V *P _{VA} /(R*T _V))	LBS/CF	0.063		STOCK VAPOR DENSITY
K _E	DELTA T _V /T _{LA} +(DELTA P _V -DELTA P _A)/T _{LA}	PER DAY	0.338	1-5	VAPOR SPACE EXAPNSION FACTOR
K _E	0.0018*[0.7*(T _{AX} -T _{AN})+0.02*a*I]	PER DAY	0.077	1-12	VAPOR SPACE EXAPNSION FACTOR (IF TANK LOCATION, COLOR & CO
K _S	1/(1+0.053*P _{VA} *H _{VO})	DIMENSIONLESS	0.177	1-21	VENTED VAPOR SATURATION FACTOR
H _{VO-VERT}	H _S -H _L +H _{RO}	FT	10.055	1-16	VAPOR SPACE OUTAGE (VERTICLE TANKS)
T _{AX}		DEG. R	539.500		AVERAGE DAILY MAXIMUM AMBIENT TEMPERATURE
T _{AN}		DEG. R	519.200		AVERAGE DAILY MINIMUM AMBIENT TEMPERATURE
a		NONE	0.970		TANK SURFACE SOLAR ABSORBANCE
I		BTU/FT ² -DAY	1,477.000		AVE. DAILY TOTAL INSOLATION ON HORIZONTAL SURFACE
M _V		LBS/LB-MOLE	41.770		VAPOR MOLECULAR WT.
H _{RO-CONE}	1/3*0.0625*R _S	FT	0.125	1-17	ROOF OUTAGE (CONE ROOF)
R _S		FT	6.000		TANK SHELL RADIUS
K _S	[1/(1+0.053*P _{VA} *H _{VO})]	DIMENSIONLESS	0.177	1-21	VENTED VAPOR SATURATION FACTOR
P _{VA}		PSIA	8.746		V.P. @ AVE. DAILY LIQUID SURFACE TEMPERATURE
W _V	M _V *P _{VA} /(R*T _V)	LBS/CF	0.063		STOCK VAPOR DENSITY
R		PSIA*CF/(LB-MOLE*°F)	10.731		IDEAL GAS CONSTANT
T _V	0.7*T _{AA} +0.30*T _B +0.009*a*I	DEG. R	543.534		AVERAGE VAPOR TEMPERATURE
T _{AA}	(T _{AX} +T _{AN})/2	DEG. R	529.350		AVE. DAILY AMBIENT TEMP.
T _B	T _{AA} +0.003*a*I	DEG. R	533.648	1-31	LIQUID BULK TEMP.
T _{LA}	0.4*T _{AA} +0.6*T _B +0.005*a*I	DEG. R	539.092	1-28	AVE. DAILY LIQUID SURFACE TEMP
DELTA T _V	0.7*DELTA T _A +0.02*a*I	DEG. R	42.864	1-7	AVE. DAILY VAPOR TEMP. RANGE
DELTA T _A	T _{AX} -T _{AN}	DEG. R	20.300	1-7	AVE. DAILY AMBIENT TEMP. RANGE
P _{VX}		PSIA	9.610	1-9	AVE. DAILY MAXIMUM VAPOR PRESSURE
P _{VN}		PSIA	8.121	1-9	AVE. DAILY MINIMUM VAPOR PRESSURE
P _{BP}		PSIA	0.030		BREATHING VENT PRESSURE SETTING
P _{BV}		PSIA	(0.030)		BREATHING VENT VACUUM SETTING
DELTA P _V	P _{VX} -P _{VN}	PSIA	1.489	1-9	AVE. DAILY VAPOR PRESSURE RANGE
DELTA P _B	P _{BP} -P _{BV}		0.060	1-10	BREATHING VENT PRESSURE SETTING RANGE
P _A		PSIA	14.270		ATMOSPHERIC PRESSURE
T _{LX}	T _{LA} +0.25*DELTA T _V	DEG. R	549.808		MAXIMUM LIQUID TEMPERATURE
T _{LN}	T _{LA} -0.25*DELTA T _V	DEG. R	528.376		MINIMUM LIQUID TEMPERATURE
T _{LX}		DEG. F	90.108		MAXIMUM LIQUID TEMPERATURE
T _{LN}		DEG. F	68.676		MINIMUM LIQUID TEMPERATURE

COMPANY	Ineos USA Oil & Gas LLC
SITE NAME	Corner S Ranch Mem B Pad
DATE	03/11/24
TANK TYPE	VERTICLE FIXED ROOF
TANK TYPE	UN-INSULATED
TANK TYPE	CONE ROOF
FILL TYPE	SUBMERGED LOADING
CITY/STATE	SAN ANTONIO, TEXAS
TANK PAINT	BLACK
TANK CONDITION	AGED
TANK CONTENTS	CRUDE (RVP 10.5)
EPN	TANK17: PRODUCED WATER

CALCULATE WORKING LOSS

L_W	$V_Q * K_N * K_P * W_V * K_B$	LBS/YR	271	1-35	WORKING LOSSES
V_Q	$5.614 * Q$	CF/YR	5,763		NET WORKING LOSS THROUGHPUT
K_N		DIMENSIONLESS	1.00		WORKING LOSS TURNOVER SATURATION FACTOR (FOR FLASHING TA
K_B		DIMENSIONLESS	1.00		VENT SETTING CORRECTION FACTOR; FOR OPEN VENTS & +/-0.03 PSIG
K_P		DIMENSIONLESS	0.750		PRODUCT FACTOR (1.0 FOR CRUDE, 0.75 FOR ALL OTHER PRODUCTS)
W_V	$(M_V * P_{VA}) / (R * T_V)$	LBS/CF	0.063		STOCK VAPOR DENSITY

VAPOR PRESSURE CALCULATIONS AT MAX. LIQUID TEMPERATURE

T_{LX}		DEG. F	90.000		MAXIMUM LIQUID TEMPERATURE LOWER LIMIT
T_{LX}		DEG. F	100.000		MAXIMUM LIQUID TEMPERATURE UPPER LIMIT
T_{LN}		DEG. F	60.000		MINIMUM LIQUID TEMPERATURE LOWER LIMIT
T_{LN}		DEG. F	70.000		MINIMUM LIQUID TEMPERATURE UPPER LIMIT

DEG. F	PSIA
40.000	6.600
50.000	7.100
60.000	7.600
70.000	8.200
80.000	8.800
90.000	9.600
100.000	10.500

	DEG. F (LOWER LIMIT)	DEG. F (UPPER LIMIT VP @ T_{LX})	P_{VX}
T_{LX}	90.000	100.000	9.6097
		VP @ T_{LN}	P_{VN}
T_{LN}	60.000	70.000	8.12058

VAPOR PRESSURE CALCULATIONS AT AVE. LIQUID TEMPERATURE

T_{LA}	$0.4 * T_{AA} + 0.6 * T_B + 0.005 * a * I$	DEG. F	79.0923	AVE. DAILY LIQUID SURFACE TEMP
T_{LX}		DEG. F	70.000	AVE. DAILY LIQUID SURFACE TEMP LOWER LIMIT
T_{LX}		DEG. F	80.000	AVE. DAILY LIQUID SURFACE TEMP UPPER LIMIT

DEG. F	PSIA
40.000	6.600
50.000	7.100
60.000	7.600
70.000	8.200
80.000	8.800
90.000	9.600
100.000	10.500

	DEG. F (LOWER LIMIT)	DEG. F (UPPER LIMIT VP @ T_{LA})	P_{VA}
T_{LA}	70.000	80.000	8.7455