



KINDER MORGAN APPROVES PROCEEDING WITH TENNESSEE GAS PIPELINE'S NORTHEAST ENERGY DIRECT PROJECT

KMI Board Approves \$3.3 billion investment in Mainline Pipeline Project With Delivery Capacity Totaling Up to 1.3 Billion Cubic Feet per Day of Natural Gas to Serve New England's Natural Gas Utilities and Electricity Generation Customers

HOUSTON, July 16, 2015 – Kinder Morgan, Inc. (NYSE: KMI) today announced that its board of directors authorized KMI's subsidiary, Tennessee Gas Pipeline Company (TGP) to proceed with TGP's Northeast Energy Direct (NED) project's "market path" segment from Wright, New York, to Dracut, Massachusetts, a \$3.3 billion investment designed to serve natural gas utilities and electricity generation customers in New England. NED is designed to supply a critical energy resource, domestically produced, abundant and clean natural gas, to help alleviate New England's uniquely high natural gas and electricity costs caused by the severely limited natural gas transportation capacity currently serving the region. NED will be an extension off of KMI's existing TGP pipeline, which has safely delivered natural gas to New England since the 1950s.

"We are excited that the market path component is moving forward and a determination now has been made on mainline capacity for the project, which is specifically targeted at serving the Northeast and New England's identified future market needs," said Kinder Morgan East Region Pipelines President Kimberly S. Watson. "At 30 inches in diameter, a 1.3 Bcf/d pipeline will serve the commitments we have received from New England local gas distribution companies (LDCs) and commitments we expect to receive from other LDCs and electric distribution companies (EDCs) to provide domestic, low cost and environmentally cleaner natural gas as a fuel for New England's residential and industrial consumers, and to meet New England's existing and anticipated gas-fired electricity generation demand."

According to the independent electric system operator ISO New England, New Englanders paid over \$7 billion more for electricity during the winters of 2013/14 and 2014/15 than what they paid for electricity during the winter of 2011/12, largely as a result of the existing lack of pipeline capacity servicing the region. Independent studies have concluded that the New

England region will require 2 Bcf/d of gas capacity over the coming years. NED is indispensable to meet these existing and future supply requirements. NED will help to lower natural gas and electricity costs by providing additional scalable transportation capacity attached to low cost, nearby domestic and abundant natural gas that is already available to and benefiting other regions of the United States.

The additional supply of natural gas that will be transported by NED is also essential to facilitating the region's ability to continue to reduce carbon emissions by replacing existing older coal- and oil-fired electric generation plants with cleaner natural gas-fired electricity generation, and increasing deployment of renewable energy sources such as wind and solar. Natural gas and renewable energy have a symbiotic relationship. Solar and wind resources are only available when the sun is shining or the wind is blowing. To ensure that electricity is available for homes, businesses and industry on a reliable basis, operators of the electric grid need reliable sources of power to account for the variability associated with increased reliance on renewable energy. Because of its flexibility and reliability, natural gas-fired electric generation serves as the ideal reliable source of electricity to support renewable energy. As the White House has recently noted, "Natural gas is already playing a central role in the transition to a clean energy future." ISO New England has stated that as a result of New England's transition from coal and oil to natural gas from 2001 to 2013, regional emissions of CO₂ fell by 23%, regional emissions of NO_x fell by 66% and regional emissions of SO₂ fell by 91%.

Since first proposed in 2014, TGP has said that the NED project could involve a combination of 30-inch and 36-inch diameter mainline, and provide between 1.3-2.2 Bcf/d of incremental capacity for the region's needs. According to Watson, "Our decision to proceed with the 30-inch pipeline option stems from continual outreach and dialogue that began in 2014, including ongoing negotiations with customers, reviewing various state initiatives designed to address the high cost and volatility of natural gas into the New England region, and continuing discussions with stakeholders. As a result of our dialogue and feedback, we have made numerous adjustments to the proposed right-of-way in order to minimize potential impacts on nearby towns and communities, resulting in approximately 91% of the proposed NED market path segment being co-located along existing utility corridors, and we have also eliminated the need for two of nine proposed lateral lines and related facilities. TGP also plans to make additional adjustments to NED's proposed scope, including reducing horsepower requirements at

proposed new compressor station locations, and will continue to review routing alternatives as the pre-filing process moves forward. We are mindful of preserving the environmentally sensitive and aesthetically beautiful nature of the New England communities in which we operate and our employees live. TGP has maintained safe, respectful, mutually beneficial relationships with landowners along our existing pipeline rights-of-way throughout New England for nearly 60 years, and we are committed to continuing to do so.” The revised project scope will be the basis for environmental reports to be addressed in an upcoming submittal of TGP’s revised draft Environmental Report to the Federal Energy Regulatory Commission (FERC) later this month.

“While TGP is now moving forward with a 30-inch pipeline design, circumstances could arise in the very near term as more capacity commitments are made that would necessitate a design modification to a 36-inch pipeline design, and that would require us to file an amended application with the FERC,” Watson said. TGP intends to file the certificate application for the project in October 2015 to meet the full design capacity of 1.3 Bcf/d. Kinder Morgan will scale the facilities to match the firm subscription obtained by seeking authorization to install the compression on an “as needed” basis, with the ability to add additional compression later up to the full design capacity as additional capacity is subscribed. Subject to the timely receipt of necessary regulatory permits, NED is anticipated to commence service in November 2018.

Kinder Morgan, Inc. (NYSE: KMI) is the largest energy infrastructure company in North America. It owns an interest in or operates 84,000 miles of pipelines and 165 terminals. The company’s pipelines transport natural gas, gasoline, crude oil, CO₂ and other products, and its terminals store petroleum products and chemicals, and handle bulk materials like coal and petroleum coke. Kinder Morgan is the largest midstream and third largest energy company in North America with an enterprise value of more than \$130 billion. For more information please visit www.kindermorgan.com.

This news release includes forward-looking statements. These forward-looking statements are subject to risks and uncertainties and are based on the beliefs and assumptions of management, based on information currently available to them. Although Kinder Morgan believes that these forward-looking statements are based on reasonable assumptions, it can give no assurance that such assumptions will materialize. Important factors that could cause actual results to differ materially from those in the forward-looking statements herein include those enumerated in Kinder Morgan’s reports filed with the Securities and Exchange Commission. Forward-looking statements speak only as of the date they were made, and except to the extent required by law, Kinder Morgan undertakes no obligation to update or review any forward-looking statement because of new information, future events or other factors.

Because of these uncertainties, readers should not place undue reliance on these forward-looking statements.

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Tennessee Gas Pipeline Company, L.L.C.**Open Season 900****Open Season for the Northeast Expansion Project February 13, 2014 – March 28, 2014****Revised March 17, 2014****I. The Northeast Expansion Project**

To address the need for additional pipeline infrastructure and firm transportation service in the Northeast United States, Tennessee Gas Pipeline Company, L.L.C. is developing its Northeast Expansion Project (the “Project”). In response to significant interest from local distribution companies, electric generators, industrial end users and developers of liquefied natural gas (“LNG”) projects in New England and Atlantic Canada, Tennessee is holding an open season to solicit requests for service on new capacity which can be sized from approximately 600,000 Mcf per day (“Mcf/d”) up to 2.2 Bcf per day (“Bcf/d”) (“Project TQ”). With Tennessee’s ability to expand its system to provide significant volumes at competitive rates, the Project is of sufficient scale to address the long-term energy needs of New England and Atlantic Canada by providing access to abundant new supplies from the Marcellus and Utica supply areas. Recent initiatives by the New England Governors and the New England States Committee on Electricity suggest that adding these significant volumes to Northeast markets should provide sufficient incremental supply to lower the price of gas in New England energy markets and enhance reliability of gas and electricity grids. In addition to its unique access to the abundant new regional supplies, Tennessee offers unparalleled supply diversity across its thousands of miles of pipeline from South Texas to New England. Tennessee is continuing significant outreach with state and local officials and other interested stakeholders to discuss the Project, and has received substantive feedback that has informed the development of the Project facilities and pipeline route. Tennessee anticipates commencing expansion service on November 1, 2018, subject to the timely receipt of regulatory approvals.

II. Expansion Service

With approximately 70,000 miles of pipelines, Kinder Morgan’s natural gas business segment—of which Tennessee is a part—is the largest natural gas transporter and largest storage operator in North America. Leveraging off Tennessee’s extensive geographic reach and existing facilities in New England, the Project is uniquely suited to connect New England energy markets with new sources of regional supply at competitive rates. As currently configured, the Project facilities would consist of (1) approximately 179 miles of pipeline from Wright, New York, to Dracut, Massachusetts, 50 miles of which would be constructed along the same right of way as Tennessee’s existing 200 Line system in New York and Massachusetts; and (2) sufficient horsepower of new compression to efficiently transport the volume for which the Project is ultimately subscribed. Based on shipper interest, the Project may also be configured to add, or interconnect with, pipeline facilities from Tennessee’s 300 Line in Bradford and Susquehanna Counties in Pennsylvania to Wright, New York, to provide more direct access to the Marcellus and Utica shale production areas.

The Project will provide transportation service commencing at receipt points at Tennessee’s existing interconnect with Iroquois Gas Transmission System, L.P. and the proposed interconnect with Constitution Pipeline Company, LLC, both located at Wright, New York, to mutually agreeable delivery points in Tennessee’s Zone 5 and Zone 6, including Tennessee’s interconnect with the Maritimes & Northeast Pipeline, L.L.C.’s (“M&NP”) and Portland Natural Gas Transmission System’s (“PNGTS”) joint facilities in Dracut, Massachusetts.

In addition, based upon initial inquiries from prospective Project shippers and producers in northeast Pennsylvania, Tennessee will also accept requests for service for an additional firm transportation path originating on its 300 Line in Bradford and Susquehanna Counties, Pennsylvania, for delivery to Wright, New York.

The Project TQ is scalable from approximately 600,000 Mcf/d to 2.2 Bcf/day. The final Project TQ will be based upon service requests received in the Open Season which result in the execution of binding precedent agreements. The projected in-service date for the Project is as early as November 1, 2018. Tennessee will negotiate later in-service dates on a not unduly discriminatory basis. Tennessee is seeking twenty (20) year contract terms, but will consider shorter contract terms with an appropriate rate.

III. Open Season Period and Submission of Bids

This Open Season will commence as of this Notice and end at 4:00 p.m. CDT on March 28, 2014 (“Open Season Period”).

In order to submit a request for service in this Open Season, a potential shipper must submit, by the end of the Open Season Period: (1) a service request form (“SRF”) indicating the transportation quantity, capacity path as set forth in the SRF, and Primary Term for transportation service; and (2) as may be required by TGP, (footnote 1) creditworthiness information as set forth in Article XXVI, Section 4.1 of the General Terms & Conditions (“GT&C”) of Transporter’s FERC Gas Tariff (“Tariff”).

Submit Bids to:

Tennessee Gas Pipeline Company, L.L.C.

Attention: Becky Mack and Curtis Cole

Email: Rebecca_mack@kindermorgan.com

Curtis_cole@kindermorgan.com

Upon the close of the Open Season, and execution of an appropriate confidentiality agreement, (footnote 2) a Tennessee representative will contact all parties submitting valid SRFs to present terms and the indicative recourse rates and negotiated rates for the Project. In the precedent agreement, parties will have the option to select service at the recourse rates for the Project (footnote 3) or a negotiated rate. (footnote 4) Tennessee will engage with such parties on a not unduly discriminatory basis to negotiate binding precedent agreements.

Tennessee may enter into binding precedent agreements with parties submitting valid SRFs and may determine to proceed with the Project and allocate the Project TQ without holding any further open seasons. To preserve the ability to place the Project Facilities in-service date as early as November 1, 2018, Tennessee reserves the right to reject any party's valid SRF if a duly authorized representative of such party has not executed a binding precedent agreement on or before August 1, 2014.

Although SRFs submitted in this Open Season are not binding, only valid SRFs received during the Open Season period will be considered for service on the Project; provided, however, that Tennessee, in its sole discretion may consider requests received after the close of the Open Season period, including requests to modify a participant's validly submitted SRF, but shall be under no obligation to do so.

IV. Shipper Status

In exchange for early commitment to the Project, Tennessee will offer Anchor Shipper status to any party who executes a binding precedent agreement by May 15, 2014 that (1) is for a primary term of at least twenty (20) years, or a lesser term on an equivalent economic basis, (2) elects the negotiated rate option, and (3) has obtained contains shipper termination rights based on: (i) shipper's receipt of management and/or board of director approvals by June 30 May 15, 2014; and (ii) receipt by shipper of any required regulatory approval by August 1, 2014, unless Tennessee and the Anchor Shipper mutually agree to extend such date. Anchor Shipper benefits may include (1) contract extension rights, (2) favorable terms for sharing of cost underruns and overruns; (3) no proration risk, to the extent a further open season is held to allocate capacity, and (4) other benefits which Tennessee agrees to provide such Anchor Shippers on a not unduly discriminatory basis.

Tennessee will also offer Supporting Shipper and Foundation Shipper status to potential shippers. Potential shippers who participate in this Open Season will be notified as to the requirements to participate in the Project as a Supporting Shipper or a Foundation Shipper as such requirements are developed by Tennessee. Supporting Shipper and Foundation Shipper benefits will be negotiated on a not unduly discriminatory basis.

V. Service Type, Transportation Rights and Fuel

Service for the Project will be provided under Tennessee's Rate Schedule FT-A and other applicable provisions of Tennessee's Tariff, as it may change from time to time.

Project Shippers will have rights regarding secondary service and capacity segmentation as provided in Tennessee's Tariff; provided, however, that a shipper will not have secondary point or segmentation rights on off-system capacity, if applicable. If a potential shipper elects the negotiated rate option in the precedent agreement, then the applicability of the negotiated rates to segmented quantities, point amendments or secondary points will be negotiated on a not unduly discriminatory basis and provided for in the Negotiated Rate Agreement, which will be attached to the precedent agreement.

In addition to the applicable recourse rate or negotiated rate selected by shipper, shipper shall also be subject to: (1) the Fuel and Loss Retention ("F&LR") Percentage and Electric Power Cost Rates ("EPCR") under Tennessee's Rate Schedule FT-A, as approved by FERC for service on the Project facilities, whether generally applicable or incremental, (2) all applicable surcharges as set forth in Tennessee's Tariff, which may include surcharges for costs associated with costs for compliance with greenhouse gas regulations and pipeline safety regulations; and (3) if, off-system capacity is acquired by Transporter to provide the Project TQ, all charges Tennessee is obligated to pay the third party pipeline for the off-system capacity in accordance with Article XXI of the General Terms and Conditions of Tennessee's Tariff.

VI. Open Season Process

Based on the results of this Open Season, Tennessee may elect to award capacity based on the submitted SRFs and subsequently negotiated and executed precedent agreements, without holding any further open season(s). If another open season is not held, the Project TQ will be awarded as follows: first, to ~~the Anchor Shippers, Foundation, and Supporting Shippers~~ executing precedent agreements by May 15, 2014; second, to shippers who participate in this open season and with whom, after subsequent negotiations described above, Tennessee is able to execute a precedent agreement; and third, to other shippers, who may not have submitted a valid SRF in this Open Season.

VII. Reservations

Tennessee reserves the following rights:

- (1) at any time during this Open Season to terminate the Open Season or to extend the Open Season Period;
- (2) to modify the scope of the Project, and/or the Project TQ and/or the Open Season Period to accommodate market interest;
- (3) to reject, on a not unduly nondiscriminatory basis, any SRF which does not meet the requirements in Section III, and which in Tennessee's sole determination, is incomplete, is inconsistent with the terms of this Open Season, contains additions or modifications to the terms of the SRF, is otherwise deficient in any respect (including failure to provide credit support as Tennessee deems necessary) or requests service outside the scope of the Project.;
- (4) to continue to market the Project and to enter into negotiations with, and award capacity to, any party not submitting an SRF in this Open Season;
- (5) to not proceed with the development of the Project.

Tennessee will only proceed with development of the Project if it is ultimately able to execute precedent agreements with term, quantity and rate provisions that economically justify the development and regulatory risks associated with such significant capital investment.

This Open Season is subject to all applicable laws, orders, rules, and regulations of authorities having jurisdiction.

VIII. Creditworthiness

Following submission of a complete SRF, potential shippers will be contacted by Tennessee's Credit Manager, Ralph Lohr, (630-725-3213, Ralph_Lohr@kindermorgan.com) for further evaluation of the potential shipper's creditworthiness. Tennessee will conduct a credit evaluation in the manner outlined in GT&C Article XXVI, Section 4.3 of the Tariff. Additionally, in the event a potential shipper is deemed non-creditworthy by Tennessee, the potential shipper must provide to Tennessee, as part of any precedent agreement, credit assurance applicable to this Project, in form and substance acceptable to Tennessee in its sole discretion. Such creditworthiness requirements shall remain in effect during the term of the precedent agreement, as well as the term of shipper's transportation agreement(s) for the Project.

IX. Turnback Capacity Solicitation

Any existing shipper who currently holds firm transportation capacity on Tennessee that it believes (subject to Tennessee's evaluation and confirmation in its sole discretion) could be used in lieu of a portion(s) of the proposed Project, is invited to notify Tennessee of its desire to permanently relinquish its capacity for use in the Project. Any shipper who desires to turn back such capacity must notify Tennessee, in writing, of the TQ, term, receipt point(s), delivery point(s), contract number(s), the reservation rate at which the shipper is willing to release the capacity back to Tennessee, and any other relevant information necessary to effectuate the permanent relinquishment of such capacity. In order for Tennessee to consider any request to turnback capacity, such notification must be received by Tennessee by the close of the Open Season Period. Turnback requests are subject to rejection or pro ration based upon the results of this Open Season and this turnback capacity solicitation as determined by Tennessee in its sole discretion. Tennessee must remain economically indifferent between the turnback offer and the proposed

expansion. The shipper turning back capacity shall remain responsible for any difference between the rate at which the capacity is turned back to Tennessee and the reservation rates under the expansion shipper(s) firm transportation service agreement with Tennessee for the remaining term of the turnback shipper's firm transportation service agreement, but will not be responsible for any commodity charges, ACA, Fuel and Loss Retention, or any other authorized usage surcharges associated with the turnback capacity, nor shall shipper be entitled to any credits associated with such capacity.

Tennessee reserves the right to reject, in its sole discretion, any turnback requests that are incomplete, contain modifications to the terms of the turnback capacity solicitation, are submitted with any conditions on the turnback capacity, or are economically disadvantageous to Tennessee. The final design of the Project will be based in part on the results of this turnback capacity solicitation.

X. Contact Information:

If you have any questions regarding this Open Season, please contact the following:

Becky Mack

713-420-4656

Rebecca_mack@Kindermorgan.com

Curtis Cole

713-420-3373

Curtis_cole@Kindermorgan.com

Media inquires please contact:

Richard Wheatley

713-420-6828

Richard_wheatley@Kindermorgan.com

FOOTNOTES:

^[1] Any party desiring to submit an SRF should contact Tennessee to determine the creditworthiness information that may be required.

^[2] Attached to this Open Season Notice is a form of Confidentiality Agreement for the Project.

^[3] The maximum applicable recourse rate(s) for the Project will be incrementally priced reservation and commodity rates as approved by FERC for service on the Project facilities.

^[4] If a negotiated rate is selected, shipper will pay the rates set forth in a Negotiated Rate Agreement attached to the precedent agreement.

**Tennessee Gas Pipeline Company, L.L.C.
Northeast Expansion Project
Service Request Form**

Shipper Information:

Company _____
(Legal name of entity)
Primary Contact _____
Title _____
Address _____
Telephone _____
Fax _____
Email _____

Capacity Path:

- PATH 1 - Wright, NY to New England**
- PATH 2 - Line 300-Bradford and Susquehanna Counties, PA to Wright**

*** Potential shippers interested in both Path 1 and Path 2 may check both boxes.**

Receipt Point [1]	Quantity (Dth/d)	Delivery Point(s)	Quantity (Dth/d) [1]

[1] The sum of receipt point quantities must equal the sum of delivery point quantities.

Contract Term: _____
Begin Date: _____
End Date: _____

Additional Information to Clarify Service Request:

Financial and/or Credit Information:

- Attached Sent Separately

Submitted by:

Name

Title

Telephone

Signature

Signature of Duly Authorized Officer

Date

Please return this form to:

Becky Mack
Tennessee Gas Pipeline Company, L.L.C.
1001 Louisiana Street
Houston, TX 77002
Phone: 713-420-4656
Email: Rebecca_mack@Kindermorgan.com

Or

Curtis Cole
Phone: 713-420-3373
Email: Curtis_Cole@Kindermorgan.com

CONFIDENTIALITY AGREEMENT

This Confidentiality Agreement, dated as of _____, 2014 (this "**Agreement**"), is between and among [INSERT COUNTERPARTY'S FULL LEGAL NAME] ("**Counterparty**") and Tennessee Gas Pipeline Company, L.L.C. ("**Tennessee**"). Tennessee and Counterparty shall be referred to collectively as the "**Parties**" and individually as a "**Party**." This Agreement sets forth the terms and conditions under which the Parties may disclose certain information to each other of a confidential and proprietary nature.

WHEREAS, to facilitate discussions relating to, and the evaluation of a potential negotiated transaction between Counterparty and Tennessee or its affiliates regarding, Tennessee's Northeast Expansion Project (the "**Project**"), Counterparty and Tennessee may provide or disclose to the other Party certain Confidential Information (as hereinafter defined);

WHEREAS, for purposes of this Agreement, a Party disclosing Confidential Information to the other Party shall be known as the "**Disclosing Party**" and the Party receiving such Confidential Information shall be known as the "**Receiving Party**"; and

NOW THEREFORE, in consideration of the covenants and conditions set forth herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

1. DEFINITION OF CONFIDENTIAL INFORMATION

- 1.1 As used in this Agreement, the term "**Confidential Information**" shall include all information about the business, financial condition, operations, assets and liabilities of the Disclosing Party and its affiliates, whether (a) prepared by the Disclosing Party and/or its affiliates, any of their respective Representatives or otherwise; (b) in written, oral, electronic, or other form; (c) identified as "confidential" or otherwise; or (d) prepared prior to, on, or after the date of this Agreement; that is furnished to the Receiving Party or any of its Representatives by or on behalf of the Disclosing Party and/or its affiliates, regardless of the manner or medium in which such Confidential Information is furnished, including all information and documentation relating to the financial, tax, accounting, and other information of the Disclosing Party or any of its affiliates regarding business operations, prospects, value, and/or structure, marketing practices and techniques, business strategies and capabilities, business plans, and relationships with customers, suppliers, principals, employees, financing sources, hedging counterparties, contracting counterparties and others, and any information that is a trade secret within the meaning of applicable trade secret law and other documentation and materials prepared by the Receiving Party or any of its Representatives, containing or based in whole or in part on any Confidential Information furnished by the Disclosing Party or its affiliates or any of their respective Representatives. With respect to Counterparty only, "Confidential Information" shall also include (i) the fact that the Parties are in discussions regarding the Project; (ii) any discussions, negotiations, and investigations regarding the terms, conditions, or other facts with respect to the Project, including the status thereof and the existence and terms of this Agreement; (iii) the fact that Confidential Information has

been made available by Tennessee to Counterparty; and (iv) all copies, notes, analyses, compilations, studies, interpretations or other documents prepared by or on behalf of the Counterparty or its Representatives which contain, reflect or are based upon, in whole or in part, any other Confidential Information.

1.2 Notwithstanding the foregoing, Confidential Information shall not include information that the Receiving Party can demonstrate:

- (i) is rightfully known to or already in the possession of the Receiving Party prior to its disclosure by the Disclosing Party;
- (ii) is or becomes generally available to the public other than as a result of disclosure, directly or indirectly, by the Receiving Party or its Representatives;
- (iii) is or becomes available to the Receiving Party on a non-confidential basis from a source other than the Disclosing Party or its affiliates or any of their respective Representatives; provided that such source is not known by the Receiving Party or its Representatives (after due inquiry) to be bound by a confidentiality agreement with or other obligation of confidentiality to the Disclosing Party or its affiliates or another party with respect to such information.
- (iv) is independently derived by the Receiving Party or its Representatives without the aid, application or use of Confidential Information.

2. PERMITTED PURPOSE, USE AND DISCLOSURE OBLIGATIONS

2.1 The Receiving Party shall use, and shall cause its Representatives to use, the Confidential Information solely in connection with its analysis and evaluation of the Project (the "**Permitted Purpose**"), and for no other purpose. Furthermore, the Receiving Party shall not, and shall cause its Representatives not to, directly or indirectly, at any time disclose any Confidential Information to any person (other than the Disclosing Party) in any manner, or permit or assist any person (other than the Disclosing Party) to use any Confidential Information, except that the Receiving Party may disclose Confidential Information to its Representatives who have a bona fide need to know such information for the sole purpose of assisting, and solely to the extent necessary to permit such Representatives to assist, the Receiving Party in the Permitted Purpose; provided that prior to the disclosure of the Confidential Information to any of its respective Representatives, the Receiving Party shall inform such Representatives as to the confidential and proprietary nature of the Confidential Information and shall obligate each such Representative to comply with the terms of this Agreement. The Receiving Party shall be liable to the Disclosing Party for any action or omission prohibited under this Agreement by any of its Representatives. Neither the Receiving Party nor any of its Representatives shall use or employ any Confidential Information in any way that would be harmful to or against the best interests of the Disclosing Party or any of its affiliates. Without limiting the foregoing, neither the Receiving Party nor any of its Representatives shall reverse engineer, disassemble, or decompile any Confidential

Information or any products or any other prototypes, software, or other tangible objects which embody Confidential Information.

- 2.2 For purposes of this Agreement, “**Representatives**” of any person shall mean its affiliates and the employees, directors, partners, officers, owners, co-owners, controlling persons, investors, co-investors, joint venturers, debt financing sources, representatives, agents, consultants, and professional advisors of such person and its affiliates (including financial advisors, counsel, and accountants). An “**affiliate**” of any person shall mean any other person that directly or indirectly through one or more intermediaries, controls, is controlled by, or is or comes under common control with, the first person. For purposes of the foregoing sentence, “**control**” of a person means the possession of power to direct or cause the direction of management and policies of such person, whether through ownership of voting securities, by contract or otherwise. The term “**person**” as used in this Agreement will be interpreted broadly to include the media (electronic, print, or otherwise), the Internet, any governmental representative or authority or any corporation, company, limited liability company, enterprise, association, partnership, group or other entity or individual.
- 2.3 Receiving Party agrees that any Confidential Information received from Disclosing Party shall be maintained by the use of appropriate internal procedures to ensure that Confidential Information maintains its confidential and proprietary nature.
- 2.4 If any unauthorized disclosure or use of the Confidential Information is discovered, Receiving Party hereby covenants to immediately notify the Disclosing Party of any such unauthorized use which comes to its attention, including, without limitation, any such unauthorized use by Receiving Party or its Representatives. Moreover, upon the request of the Disclosing Party, the Receiving Party shall cooperate in assisting the Disclosing Party in terminating or preventing any third parties from disseminating or using the Confidential Information by securing evidence, obtaining witnesses and their affidavits and declarations, and assisting the Disclosing Party in any other reasonable manner.
- 2.5 In the event that Receiving Party or any of its Representatives becomes legally compelled (whether by subpoena, interrogatory, civil investigative demand, court or regulatory order, or otherwise) to disclose any of the Confidential Information received from Disclosing Party, Receiving Party will, to the extent permitted and reasonably feasible under the circumstances, provide Disclosing Party with prompt written notice so that Disclosing Party may seek a protective order or other appropriate remedy prior to any such disclosure and/or waive compliance with certain provisions of this Agreement. Receiving Party shall cooperate with Disclosing Party in seeking the protective order or other appropriate remedy so that Confidential Information maintains its confidential and proprietary treatment. In the event that such a protective order or other protective remedy is not obtained or the Disclosing Party waives compliance with the relevant provisions of this Agreement, Receiving Party will furnish only that portion of the Confidential Information that is legally required to be disclosed, in the opinion of its own counsel, and such Party will exercise its reasonable efforts to obtain reliable assurances that confidential treatment will be accorded the Confidential Information.

2.6 Within fifteen (15) days after being requested in writing by the Disclosing Party (which request may be made at any time and from time to time), the Receiving Party shall, and shall cause its Representatives to, either return to the Disclosing Party or destroy all Confidential Information and all documents, materials, or other items containing Confidential Information, without retaining any copies, summaries, or extracts thereof, and shall certify such return and/or destruction in writing to Disclosing Party within such 15 day period; provided, however, that Receiving Party shall not be required to return or destroy any electronic copies of any such Confidential Information, or any documents, materials, or other items containing Confidential Information, that shall have been archived in Receiving Party's electronic records archival system until such items are destroyed in accordance with Receiving Party's normal destruction policies and provided further that notwithstanding the expiration of this Agreement pursuant to Section 3.13, all provisions of this Agreement shall continue to apply with full force and effect to any materials containing Confidential Information which are retained by Receiving Party or its Representatives following a written request for the return or destruction thereof pursuant to this Section 2.6. Compliance with this Section 2.6 shall not relieve Receiving Party of its other obligations under this Agreement.

3. GENERAL

3.1 **THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF TEXAS, REGARDLESS OF CONFLICTS OF LAWS PRINCIPLES THAT MIGHT APPLY THE LAWS OF ANOTHER JURISDICTION. EACH PARTY HEREBY CONSENTS TO THE JURISDICTION AND VENUE OF THE COMPETENT STATE AND FEDERAL COURTS LOCATED IN HARRIS COUNTY, TEXAS FOR ANY ACTION BROUGHT UNDER THIS LETTER AGREEMENT. EACH PARTY HEREBY IRREVOCABLY WAIVES ANY OBJECTION TO SUCH COURTS ON JURISDICTION, CONVENIENCE OR ANY OTHER GROUND. THE PRECEDING SHALL NOT APPLY TO A PARTY'S SEEKING TO ENFORCE A JUDGMENT OF SUCH COURT IN ANOTHER COURT, VENUE, OR JURISDICTION.**

3.2 **EACH PARTY HEREBY IRREVOCABLY WAIVES ANY RIGHT TO TRIAL BY JURY.**

3.3 **IN NO EVENT SHALL A PARTY BE ENTITLED TO RECOVER PUNITIVE, INDIRECT, CONSEQUENTIAL, LOST PROFIT, LOSS OF REVENUE OR OPPORTUNITY, SPECIAL OR EXEMPLARY DAMAGES UNDER THIS AGREEMENT.**

3.4 If any provision of this Agreement is declared void or otherwise unenforceable, such provision shall be deemed to have been severed from this Agreement, which shall otherwise remain in full force and effect.

3.5 No failure or delay by a Party in exercising any right, power or privilege hereunder shall operate as a waiver thereof, nor shall any single or partial exercise thereof preclude any

other or further exercise thereof or the exercise of any other right, power or privilege hereunder.

- 3.6 Receiving Party hereby acknowledges and agrees that any Confidential Information disclosed to the Receiving Party is considered by the Disclosing Party to be of a special, unique and proprietary character and that in the event of any breach or threatened breach of any provision of this Agreement, remedies at law would be inadequate. The Receiving Party agrees, therefore, on behalf of itself and its Representatives that the Disclosing Party shall be entitled to specific performance and injunctive or other equitable relief without any showing of irreparable harm or damage, and the Receiving Party hereby waives, and shall cause its Representatives to waive, any requirement for the securing or posting of any bond or other security in connection with any such remedy. Such remedies shall not be deemed to be the exclusive remedies for any breach or threatened breach of this Agreement, but will be in addition to all other remedies available at law or in equity to the Disclosing Party or any of its affiliates. Any trade secrets included in the Confidential Information will also be entitled to all of the protections and benefits under applicable trade secret law. The Receiving Party hereby waives, and shall use all reasonable efforts to cause its Representatives to waive, any requirement that the Disclosing Party or any of its affiliates submit proof of the economic value of any trade secret or post a bond or other security.
- 3.7 Neither this Agreement nor disclosure of any Confidential Information to the Receiving Party or its Representatives shall be deemed by implication or otherwise to vest in the Receiving Party or its Representatives rights in or to the Confidential Information, other than the right to use such Confidential Information solely for the Permitted Purpose. The Disclosing Party shall retain sole and exclusive ownership of all right, title, and interest in and to all Confidential Information and any and all materials provided by the Disclosing Party to the Receiving Party hereunder, and all intellectual property rights therein. Receiving Party's right to use the Confidential Information for the Permitted Purpose is revocable and not coupled with an interest in any Confidential Information. No license by implication, estoppel, or otherwise under any patent, copyright, trade secret, trade mark, or other intellectual property right is granted by the Disclosing Party hereunder. Neither Party represents or warrants that Confidential Information disclosed hereunder will not infringe any third party's patents, copyrights or trade secrets or other proprietary rights.
- 3.8 The Receiving Party acknowledges, on behalf of itself and its Representatives, that neither the Disclosing Party nor its Representatives makes any representations or warranties, express or implied, as to the accuracy or completeness of the Confidential Information, that neither the Disclosing Party nor its Representatives shall have any liability whatsoever to the Receiving Party or its Representatives or any other person as a result of the use of the Confidential Information or any errors therein or omissions therefrom by virtue of this Agreement and that the Receiving Party and its Representatives shall assume full responsibility for all conclusions derived from the Confidential Information.

- 3.9 Both Parties acknowledge and agree that neither Party is obligated to enter into or commence or continue any discussions or negotiations pertaining to the Project, and that no such obligation shall arise unless and until a definitive agreement relating to the Project is executed and delivered by the Parties.
- 3.10 No agency, partnership, joint venture or other joint relationship is created by this Agreement. There are no third parties that are intended to benefit from any of the agreements created hereby.
- 3.11 This Agreement shall not be assignable by Counterparty without the express written consent of Tennessee. This Agreement shall be binding upon the Parties hereto and upon their respective successors and assigns.
- 3.12 All notices, requests, claims, demands and other communications under this Agreement shall be in writing and shall be deemed given (i) upon receipt, if by personal delivery, by electronic mail, or by a recognized overnight courier service or (ii) three days after deposit with the U.S. Postal Service (first-class mail postage prepaid, return receipt requested), to the Parties at the following addresses (or at such other address for a Party as shall be specified by like notice):

(a) if to Tennessee:

BECKY MACK
MANAGER, BUSINESS DEVELOPMENT
TENNESSEE GAS PIPELINE COMPANY, L.L.C.
1001 LOUISIANA STREET
HOUSTON, TEXAS 77002
BECKY_MACK@KINDERMORGAN.COM

(b): if to Counterparty:

[INSERT CONTACT, TITLE, ADDRESS, EMAIL]

- 3.13 Except as otherwise provided herein, the restrictions and covenants set forth herein shall terminate and be of no further force and effect upon the two year anniversary of this Agreement; provided, however, that with respect to Confidential Information which constitutes a trade secret under applicable law, the Receiving Party's obligations pursuant to this Agreement shall survive so long as the Confidential Information remains a trade secret. For the avoidance of doubt, any Confidential Information retained by Receiving Party or its Representatives following a request for the return or destruction thereof pursuant to Section 2.7 shall remain subject to all provisions of this Agreement notwithstanding the expiration of this Agreement pursuant to this Section 3.13. Following the expiration or termination of this Agreement, the following provisions shall survive for purposes of any claim or dispute relating to the Agreement: 3.1, 3.2, 3.3, and 3.13.

3.14 This Agreement constitutes the entire agreement and supersedes all prior agreements and understandings, both written and oral, between the Parties with respect to the subject matter hereof.

3.15 This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which shall constitute the same agreement.

IN WITNESS WHEREOF, the Parties have caused their signatures to be hereto affixed as of the date first written above.

TENNESSEE GAS PIPELINE COMPANY, L.L.C.

By: _____
Name:
Title:
Date:

[INSERT COUNTERPARTY]

By: _____
Name: [INSERT]
Title: [INSERT]
Date:

^[2] Attached to this Open Season Notice is a form of Confidentiality Agreement for the Project.

^[3] The maximum applicable recourse rate(s) for the Project will be incrementally priced reservation and commodity rates as approved by FERC for service on the Project facilities.

^[4] If a negotiated rate is selected, shipper will pay the rates set forth in a Negotiated Rate Agreement attached to the precedent agreement.

NOTICE_TXT

Critical: Y
TSP/TSP Name: 1939164-TENNESSEE GAS PIPELINE
Notice Type Desc (1): TSP CAP OFFERING
Notice Type Desc (2): TSP CAP OFFERING
Post Date: 5/15/2014 5:00:01 PM
Notice Effective Date/Time: 05/15/2014 5:00:01PM
Notice End Date/Time: 12/31/2049 9:00:00AM
Notice ID: 352192
Notice Stat Desc: INITIATE
Prior Notice:
Reqrd Rsp: 1
Subject: OS#900-UPDATE TO ANCHOR SHIPPER DEADLINE

Notice Text:

DATE: May 15, 2014
TIME: 5:00 P.M. CCT

TO: ALL TENNESSEE GAS
PIPELINE CUSTOMERS

RE: SUSPENSION OF ANCHOR SHIPPER DEADLINE FOR OPEN
SEASON FOR NORTHEAST EXPANSION PROJECT (OPEN SEASON #900)

Tennessee Gas Pipeline Company, L.L.C. ("Tennessee") held a non-binding open season for the Northeast Expansion Project ("Project") from February 13, 2014 to March 28, 2014. In a revision to the Open Season Notice posted on March 17, 2014, Tennessee stated that it would offer Anchor Shipper status to any party executing a precedent agreement by May 15, 2015. Tennessee is now suspending the May 15 deadline in order to continue ongoing negotiations with potential Anchor Shippers. In a future posting, Tennessee will provide no less than 15 days' notice of the new deadline for executing a precedent agreement for Anchor Shipper status.

During the Open Season, Tennessee received executed Service Request Forms ("SRF") reflecting significant interest in its Northeast Expansion Project, including requests for firm transportation from Tennessee's 300 Line in Pennsylvania to an interconnect with the 200 Line at Wright, New York as well as requests for transportation from Wright, New York to Dracut, Massachusetts. The projected in-service date for the Project is November 1, 2018.

Since the close of the Open Season, Tennessee has been in active negotiations with shippers from various segments of the market for both the 300 Line-to-Wright and Wright-to-Dracut paths and has made substantial progress towards executing precedent agreements with Anchor Shippers. Due to the significant number of parties involved in negotiations and scale and complexity of the Project, and in order to address the needs of market, Tennessee is suspending the May 15, 2014 deadline for executing a precedent agreement for Anchor Shipper status. Tennessee will continue to work with parties submitting SRFs in the Open Season and any other interested party to negotiate precedent agreements for anchor shipper status. In a future posting, Tennessee will provide further guidance on the deadline for obtaining Anchor Shipper status.

Non-anchor shipper precedent agreements will also be developed in the event a party is unable to transact by the deadline that will be set in a future posting. Any party interested in capacity on the Project, even those that may not have participated in the Open Season, are encouraged to contact Becky Mack or Curtis Cole for more information.

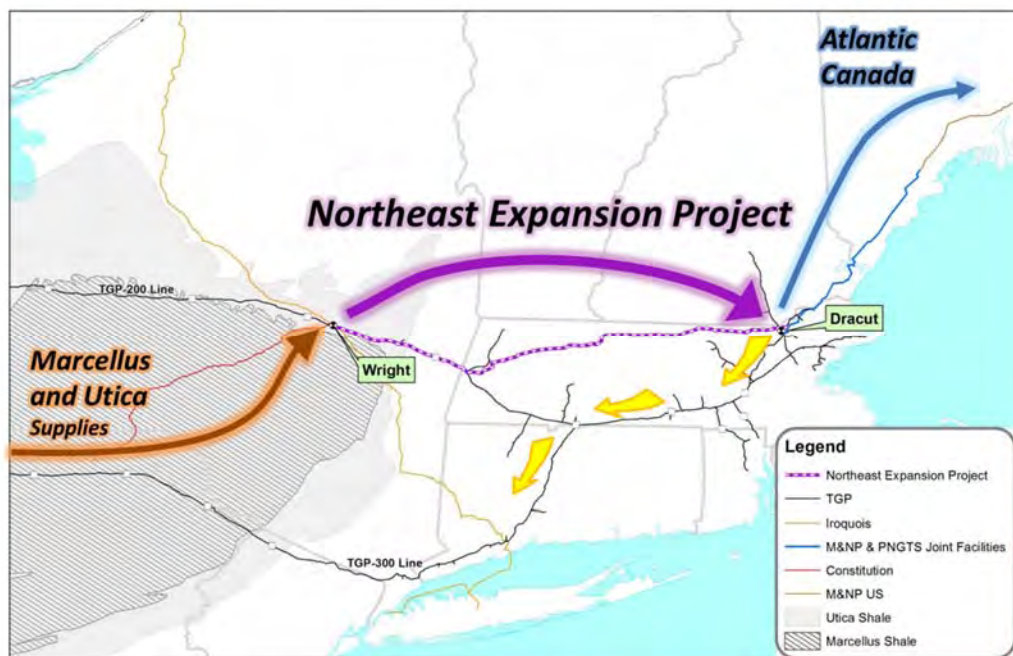
Becky Mack
713-420-4656

Rebecca_mack@Kindermorgan.com

Curtis Cole

713-420-3373

Curtis_cole@Kindermorgan.com



I. The Northeast Expansion Project

To address the need for additional pipeline infrastructure and firm transportation service in the Northeast United States, Tennessee Gas Pipeline Company, L.L.C. is developing its Northeast Expansion Project (the "Project"). In response to significant interest from local distribution companies, electric generators, industrial end users and developers of liquefied natural gas ("LNG") projects in New England and Atlantic Canada, Tennessee is holding an open season to solicit requests for service on new capacity which can be sized from approximately 600,000 Mcf per day ("Mcf/d") up to 2.2 Bcf per day ("Bcf/d") ("Project TQ"). With Tennessee's ability to expand its system to provide significant volumes at competitive rates, the Project is of sufficient scale to address the long-term energy needs of New England and Atlantic Canada by providing access to abundant new supplies from the Marcellus and Utica supply areas. Recent initiatives by the New England Governors and the New England States Committee on Electricity suggest that adding these significant volumes to Northeast markets should provide sufficient incremental supply to lower the price of gas in New England energy markets and enhance reliability of gas and electricity grids. In addition to its unique access to the abundant new regional supplies, Tennessee offers unparalleled supply diversity across its thousands of miles of pipeline from South Texas to New England. Tennessee is continuing significant outreach with state and local officials and other interested stakeholders to discuss the Project, and has received substantive feedback that has informed the development of the Project facilities and pipeline route. Tennessee anticipates commencing expansion service on November 1, 2018, subject to the timely receipt of regulatory approvals.

II. Expansion Service

With approximately 70,000 miles of pipelines, Kinder Morgan's natural gas business segment—of which Tennessee is a part—is the largest natural gas transporter and largest storage operator in North America. Leveraging off Tennessee's extensive geographic reach and existing facilities in New England, the Project is uniquely suited to connect New England energy markets with new sources of regional supply at competitive rates. As currently configured, the Project facilities would consist of (1) approximately 179 miles of pipeline from Wright, New York, to Dracut, Massachusetts, 50 miles of which would be constructed along the same right of way as Tennessee's existing 200 Line system in New York and Massachusetts; and (2) sufficient horsepower of new compression to efficiently transport the volume for which the Project is ultimately subscribed. Based on shipper interest, the Project may also be configured to add, or interconnect with, pipeline facilities from Tennessee's 300 Line in Bradford and Susquehanna Counties in Pennsylvania to Wright, New York, to provide more direct access to the Marcellus and Utica shale production areas.

The Project will provide transportation service commencing at receipt points at Tennessee's existing interconnect with Iroquois Gas Transmission System, L.P. and the proposed interconnect with Constitution Pipeline Company, LLC, both located at Wright, New York, to mutually agreeable delivery points in Tennessee's Zone 5 and Zone 6, including Tennessee's interconnect with the Maritimes & Northeast Pipeline, L.L.C.'s ("M&NP") and Portland Natural Gas Transmission System's ("PNGTS") joint facilities in Dracut, Massachusetts.

In addition, based upon initial inquiries from prospective Project shippers and producers in northeast Pennsylvania, Tennessee will also accept requests for service for an additional firm transportation path originating on its 300 Line in Bradford and Susquehanna Counties, Pennsylvania, for delivery to Wright, New York.

The Project TQ is scalable from approximately 600,000 Mcf/d to 2.2 Bcf/day. The final Project TQ will be based upon service requests received in the Open Season which result in the execution of binding precedent agreements. The projected in-service date for the Project is as early as November 1, 2018. Tennessee will negotiate later in-service dates on a not unduly discriminatory basis. Tennessee is seeking twenty (20) year contract terms, but will consider shorter contract terms with an appropriate rate.

III. Open Season Period and Submission of Bids

This Open Season will commence as of this Notice and end at 4:00 p.m. CDT on March 28, 2014 ("Open Season Period").

In order to submit a request for service in this Open Season, a potential shipper must submit, by the end of the Open Season Period: (1) a service request form ("SRF") indicating the transportation quantity, capacity path as set forth in the SRF, and Primary Term for transportation service; and (2) as may be required by TGP,¹ creditworthiness information as set forth in Article XXVI, Section 4.1 of the General Terms & Conditions ("GT&C") of Transporter's FERC Gas Tariff ("Tariff").

Submit Bids to:

Tennessee Gas Pipeline Company, L.L.C.

Attention: Becky Mack and Curtis Cole

**Email: Rebecca_mack@kindermorgan.com
Curtis_cole@kindermorgan.com**

Upon the close of the Open Season, and execution of an appropriate confidentiality agreement,² a Tennessee representative will contact all parties submitting valid SRFs to present terms and the indicative recourse rates and negotiated rates for the Project. In the precedent agreement, parties will have the option to select service at the recourse rates for the Project³ or a negotiated rate.⁴ Tennessee will engage with such parties on a not unduly

¹ Any party desiring to submit an SRF should contact Tennessee to determine the creditworthiness information that may be required.

² Attached to this Open Season Notice is a form of Confidentiality Agreement for the Project.

³ The maximum applicable recourse rate(s) for the Project will be incrementally priced reservation and commodity rates as approved by FERC for service on the Project facilities.

⁴ If a negotiated rate is selected, shipper will pay the rates set forth in a Negotiated Rate Agreement attached to the precedent agreement.

discriminatory basis to negotiate binding precedent agreements.

Tennessee may enter into binding precedent agreements with parties submitting valid SRFs and may determine to proceed with the Project and allocate the Project TQ without holding any further open seasons. To preserve the ability to place the Project Facilities in-service date as early as November 1, 2018, Tennessee reserves the right to reject any party's valid SRF if a duly authorized representative of such party has not executed a binding precedent agreement on or before August 1, 2014.

Although SRFs submitted in this Open Season are not binding, only valid SRFs received during the Open Season period will be considered for service on the Project; provided, however, that Tennessee, in its sole discretion may consider requests received after the close of the Open Season period, including requests to modify a participant's validly submitted SRF, but shall be under no obligation to do so.

IV. Shipper Status

In exchange for early commitment to the Project, Tennessee will offer Anchor Shipper status to any party who executes a binding precedent agreement by May 15, 2014 that (1) is for a primary term of at least twenty (20) years, (2) elects the negotiated rate option, and (3) contains shipper termination rights based on: (i) shipper's receipt of management and/or board of director approvals by May 15, 2014; and (ii) receipt by shipper of any required regulatory approval by August 1, 2014, unless Tennessee and the Anchor Shipper mutually agree to extend such date. Anchor Shipper benefits may include (1) contract extension rights, (2) favorable terms for sharing of cost underruns and overruns; (3) no proration risk, to the extent a further open season is held to allocate capacity, and (4) other benefits which Tennessee agrees to provide such Anchor Shippers on a not unduly discriminatory basis.

Tennessee will also offer Supporting Shipper and Foundation Shipper status to potential shippers. Potential shippers who participate in this Open Season will be notified as to the requirements to participate in the Project as a Supporting Shipper or a Foundation Shipper as such requirements are developed by Tennessee. Supporting Shipper and Foundation Shipper benefits will be negotiated on a not unduly discriminatory basis.

V. Service Type, Transportation Rights and Fuel

Service for the Project will be provided under Tennessee's Rate Schedule FT-A and other applicable provisions of Tennessee's Tariff, as it may change from time to time.

Project Shippers will have rights regarding secondary service and capacity segmentation as provided in Tennessee's Tariff; provided, however, that a shipper will not have secondary point or segmentation rights on off-system capacity, if applicable. If a potential shipper elects the negotiated rate option in the precedent agreement, then the applicability of the negotiated rates to segmented quantities,

point amendments or secondary points will be negotiated on a not unduly discriminatory basis and provided for in the Negotiated Rate Agreement, which will be attached to the precedent agreement.

In addition to the applicable recourse rate or negotiated rate selected by shipper, shipper shall also be subject to: (1) the Fuel and Loss Retention ("F&LR") Percentage and Electric Power Cost Rates ("EPCR") under Tennessee's Rate Schedule FT-A, as approved by FERC for service on the Project facilities, whether generally applicable or incremental, (2) all applicable surcharges as set forth in Tennessee's Tariff, which may include surcharges for costs associated with costs for compliance with greenhouse gas regulations and pipeline safety regulations; and (3) if, off-system capacity is acquired by Transporter to provide the Project TQ, all charges Tennessee is obligated to pay the third party pipeline for the off-system capacity in accordance with Article XXI of the General Terms and Conditions of Tennessee's Tariff.

VI. Open Season Process

Based on the results of this Open Season, Tennessee may elect to award capacity based on the submitted SRFs and subsequently negotiated and executed precedent agreements, without holding any further open season(s). If another open season is not held, the Project TQ will be awarded as follows: first, to the Anchor, Foundation, and Supporting Shippers executing precedent agreements by May 15, 2014; second, to shippers who participate in this open season and with whom, after subsequent negotiations described above, Tennessee is able to execute a precedent agreement; and third, to other shippers, who may not have submitted a valid SRF in this Open Season.

VII. Reservations

Tennessee reserves the following rights:

- (1) at any time during this Open Season to terminate the Open Season or to extend the Open Season Period;
- (2) to modify the scope of the Project, and/or the Project TQ and/or the Open Season Period to accommodate market interest;
- (3) to reject, on a not unduly nondiscriminatory basis, any SRF which does not meet the requirements in Section III, and which in Tennessee's sole determination, is incomplete, is inconsistent with the terms of this Open Season, contains additions or modifications to the terms of the SRF, is otherwise deficient in any respect (including failure to provide credit support as Tennessee deems necessary) or requests service outside the scope of the Project.;
- (4) to continue to market the Project and to enter into negotiations with, and award capacity to, any party not submitting an SRF in this Open Season;

- (5) to not proceed with the development of the Project.

Tennessee will only proceed with development of the Project if it is ultimately able to execute precedent agreements with term, quantity and rate provisions that economically justify the development and regulatory risks associated with such significant capital investment.

This Open Season is subject to all applicable laws, orders, rules, and regulations of authorities having jurisdiction.

VIII. Creditworthiness

Following submission of a complete SRF, potential shippers will be contacted by Tennessee's Credit Manager, Ralph Lohr, (630-725-3213, Ralph_Lohr@kindermorgan.com) for further evaluation of the potential shipper's creditworthiness. Tennessee will conduct a credit evaluation in the manner outlined in GT&C Article XXVI, Section 4.3 of the Tariff. Additionally, in the event a potential shipper is deemed non-creditworthy by Tennessee, the potential shipper must provide to Tennessee, as part of any precedent agreement, credit assurance applicable to this Project, in form and substance acceptable to Tennessee in its sole discretion. Such creditworthiness requirements shall remain in effect during the term of the precedent agreement, as well as the term of shipper's transportation agreement(s) for the Project.

IX. Turnback Capacity Solicitation

Any existing shipper who currently holds firm transportation capacity on Tennessee that it believes (subject to Tennessee's evaluation and confirmation in its sole discretion) could be used in lieu of a portion(s) of the proposed Project, is invited to notify Tennessee of its desire to permanently relinquish its capacity for use in the Project. Any shipper who desires to turn back such capacity must notify Tennessee, in writing, of the TQ, term, receipt point(s), delivery point(s), contract number(s), the reservation rate at which the shipper is willing to release the capacity back to Tennessee, and any other relevant information necessary to effectuate the permanent relinquishment of such capacity. In order for Tennessee to consider any request to turnback capacity, such notification must be received by Tennessee by the close of the Open Season Period. Turnback requests are subject to rejection or pro ration based upon the results of this Open Season and this turnback capacity solicitation as determined by Tennessee in its sole discretion. Tennessee must remain economically indifferent between the turnback offer and the proposed expansion. The shipper turning back capacity shall remain responsible for any difference between the rate at which the capacity is turned back to Tennessee and the reservation rates under the expansion shipper(s) firm transportation service agreement with Tennessee for the remaining term of the turnback shipper's firm transportation service agreement, but will not be responsible for any commodity charges, ACA, Fuel and Loss Retention, or any other authorized usage surcharges associated with the turnback capacity, nor shall shipper be entitled to any credits associated with such capacity.

Tennessee reserves the right to reject, in its sole discretion, any turnback requests that are incomplete, contain modifications to the terms of the turnback capacity solicitation, are submitted with any conditions on the turnback capacity, or are economically disadvantageous to Tennessee. The final design of the Project will be based in part on the results of this turnback capacity solicitation.

X. Contact Information:

If you have any questions regarding this Open Season, please contact the following:

Becky Mack
713-420-4656
Rebecca_mack@Kindermorgan.com

Curtis Cole
713-420-3373
Curtis_cole@Kindermorgan.com

Media inquires please contact:
Richard Wheatley
713-420-6828
Richard_wheatley@Kindermorgan.com

Tennessee Gas Pipeline Company, L.L.C.
Northeast Expansion Project
Service Request Form

Shipper Information:

Company _____
(Legal name of entity) _____
Primary Contact _____
Title _____
Address _____
Telephone _____
Fax _____
Email _____

Capacity Path:

- PATH 1 - Wright, NY to New England
- PATH 2 - Line 300-Bradford and Susquehanna Counties, PA to Wright

*** Potential shippers interested in both Path 1 and Path 2 may check both boxes.**

Receipt Point [1]	Quantity (Dth/d)	Delivery Point(s)	Quantity (Dth/d)[1]

[1] The sum of receipt point quantities must equal the sum of delivery point quantities.

Contract Term: _____
Begin Date: _____
End Date: _____

Additional Information to Clarify Service Request:

Financial and/or Credit Information:

- Attached
- Sent Separately

Submitted by:

Name _____

Title _____

Telephone _____

Signature _____

Signature of Duly Authorized Officer

Date _____

Please return this form to:

Becky Mack
Tennessee Gas Pipeline Company, L.L.C.
1001 Louisiana Street
Houston, TX 77002
Phone: 713-420-4656
Email: Rebecca_mack@Kindermorgan.com

Or
Curtis Cole
Phone: 713-420-3373
Email: Curtis_Cole@Kindermorgan.com

CONFIDENTIALITY AGREEMENT

This Confidentiality Agreement, dated as of _____, 2014 (this "**Agreement**"), is between and among **[INSERT COUNTERPARTY'S FULL LEGAL NAME]** ("**Counterparty**") and Tennessee Gas Pipeline Company, L.L.C. ("**Tennessee**"). Tennessee and Counterparty shall be referred to collectively as the "**Parties**" and individually as a "**Party**." This Agreement sets forth the terms and conditions under which the Parties may disclose certain information to each other of a confidential and proprietary nature.

WHEREAS, to facilitate discussions relating to, and the evaluation of a potential negotiated transaction between Counterparty and Tennessee or its affiliates regarding, Tennessee's Northeast Expansion Project (the "**Project**"), Counterparty and Tennessee may provide or disclose to the other Party certain Confidential Information (as hereinafter defined);

WHEREAS, for purposes of this Agreement, a Party disclosing Confidential Information to the other Party shall be known as the "**Disclosing Party**" and the Party receiving such Confidential Information shall be known as the "**Receiving Party**"; and

NOW THEREFORE, in consideration of the covenants and conditions set forth herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

1. DEFINITION OF CONFIDENTIAL INFORMATION

1.1 As used in this Agreement, the term "**Confidential Information**" shall include all information about the business, financial condition, operations, assets and liabilities of the Disclosing Party and its affiliates, whether (a) prepared by the Disclosing Party and/or its affiliates, any of their respective Representatives or otherwise; (b) in written, oral, electronic, or other form; (c) identified as "confidential" or otherwise; or (d) prepared prior to, on, or after the date of this Agreement; that is furnished to the Receiving Party or any of its Representatives by or on behalf of the Disclosing Party and/or its affiliates, regardless of the manner or medium in which such Confidential Information is furnished, including all information and documentation relating to the financial, tax, accounting, and other information of the Disclosing Party or any of its affiliates regarding business operations, prospects, value, and/or structure, marketing practices and techniques, business strategies and capabilities, business plans, and relationships with customers, suppliers, principals, employees, financing sources, hedging counterparties, contracting counterparties and others, and any information that is a trade secret within the meaning of applicable trade secret law and other documentation and materials prepared by the Receiving Party or any of its Representatives, containing or based in whole or in part on any Confidential Information furnished by the Disclosing Party or its affiliates or any of their respective Representatives. With respect to Counterparty only, "Confidential Information" shall also include (i) the fact that the Parties are in discussions regarding the Project; (ii) any discussions, negotiations, and investigations regarding the terms, conditions, or other facts with respect to the Project, including the status thereof and the existence and terms of this Agreement; (iii) the fact that Confidential Information has been made available by Tennessee to Counterparty; and (iv) all copies, notes, analyses,

compilations, studies, interpretations or other documents prepared by or on behalf of the Counterparty or its Representatives which contain, reflect or are based upon, in whole or in part, any other Confidential Information.

- 1.2 Notwithstanding the foregoing, Confidential Information shall not include information that the Receiving Party can demonstrate:
- (i) is rightfully known to or already in the possession of the Receiving Party prior to its disclosure by the Disclosing Party;
 - (ii) is or becomes generally available to the public other than as a result of disclosure, directly or indirectly, by the Receiving Party or its Representatives;
 - (iii) is or becomes available to the Receiving Party on a non-confidential basis from a source other than the Disclosing Party or its affiliates or any of their respective Representatives; provided that such source is not known by the Receiving Party or its Representatives (after due inquiry) to be bound by a confidentiality agreement with or other obligation of confidentiality to the Disclosing Party or its affiliates or another party with respect to such information.
 - (iv) is independently derived by the Receiving Party or its Representatives without the aid, application or use of Confidential Information.

2. PERMITTED PURPOSE, USE AND DISCLOSURE OBLIGATIONS

- 2.1 The Receiving Party shall use, and shall cause its Representatives to use, the Confidential Information solely in connection with its analysis and evaluation of the Project (the “**Permitted Purpose**”), and for no other purpose. Furthermore, the Receiving Party shall not, and shall cause its Representatives not to, directly or indirectly, at any time disclose any Confidential Information to any person (other than the Disclosing Party) in any manner, or permit or assist any person (other than the Disclosing Party) to use any Confidential Information, except that the Receiving Party may disclose Confidential Information to its Representatives who have a bona fide need to know such information for the sole purpose of assisting, and solely to the extent necessary to permit such Representatives to assist, the Receiving Party in the Permitted Purpose; provided that prior to the disclosure of the Confidential Information to any of its respective Representatives, the Receiving Party shall inform such Representatives as to the confidential and proprietary nature of the Confidential Information and shall obligate each such Representative to comply with the terms of this Agreement. The Receiving Party shall be liable to the Disclosing Party for any action or omission prohibited under this Agreement by any of its Representatives. Neither the Receiving Party nor any of its Representatives shall use or employ any Confidential Information in any way that would be harmful to or against the best interests of the Disclosing Party or any of its affiliates. Without limiting the foregoing, neither the Receiving Party nor any of its Representatives shall reverse engineer, disassemble, or decompile any Confidential Information or any products or any other prototypes, software, or other tangible objects which embody Confidential Information.
- 2.2 For purposes of this Agreement, “**Representatives**” of any person shall mean its affiliates and the employees, directors, partners, officers, owners, co-owners, controlling persons, investors, co-investors, joint venturers, debt financing sources, representatives,

agents, consultants, and professional advisors of such person and its affiliates (including financial advisors, counsel, and accountants). An “**affiliate**” of any person shall mean any other person that directly or indirectly through one or more intermediaries, controls, is controlled by, or is or comes under common control with, the first person. For purposes of the foregoing sentence, “**control**” of a person means the possession of power to direct or cause the direction of management and policies of such person, whether through ownership of voting securities, by contract or otherwise. The term “**person**” as used in this Agreement will be interpreted broadly to include the media (electronic, print, or otherwise), the Internet, any governmental representative or authority or any corporation, company, limited liability company, enterprise, association, partnership, group or other entity or individual.

- 2.3 Receiving Party agrees that any Confidential Information received from Disclosing Party shall be maintained by the use of appropriate internal procedures to ensure that Confidential Information maintains its confidential and proprietary nature.
- 2.4 If any unauthorized disclosure or use of the Confidential Information is discovered, Receiving Party hereby covenants to immediately notify the Disclosing Party of any such unauthorized use which comes to its attention, including, without limitation, any such unauthorized use by Receiving Party or its Representatives. Moreover, upon the request of the Disclosing Party, the Receiving Party shall cooperate in assisting the Disclosing Party in terminating or preventing any third parties from disseminating or using the Confidential Information by securing evidence, obtaining witnesses and their affidavits and declarations, and assisting the Disclosing Party in any other reasonable manner.
- 2.5 In the event that Receiving Party or any of its Representatives becomes legally compelled (whether by subpoena, interrogatory, civil investigative demand, court or regulatory order, or otherwise) to disclose any of the Confidential Information received from Disclosing Party, Receiving Party will, to the extent permitted and reasonably feasible under the circumstances, provide Disclosing Party with prompt written notice so that Disclosing Party may seek a protective order or other appropriate remedy prior to any such disclosure and/or waive compliance with certain provisions of this Agreement. Receiving Party shall cooperate with Disclosing Party in seeking the protective order or other appropriate remedy so that Confidential Information maintains its confidential and proprietary treatment. In the event that such a protective order or other protective remedy is not obtained or the Disclosing Party waives compliance with the relevant provisions of this Agreement, Receiving Party will furnish only that portion of the Confidential Information that is legally required to be disclosed, in the opinion of its own counsel, and such Party will exercise its reasonable efforts to obtain reliable assurances that confidential treatment will be accorded the Confidential Information.
- 2.6 Within fifteen (15) days after being requested in writing by the Disclosing Party (which request may be made at any time and from time to time), the Receiving Party shall, and shall cause its Representatives to, either return to the Disclosing Party or destroy all Confidential Information and all documents, materials, or other items containing Confidential Information, without retaining any copies, summaries, or extracts thereof, and shall certify such return and/or destruction in writing to Disclosing Party within such 15 day period; provided, however, that Receiving Party shall not be required to return or destroy any electronic copies of any such Confidential Information, or any documents, materials, or other items containing Confidential Information, that shall have been archived in Receiving Party’s electronic records archival system until such items are

destroyed in accordance with Receiving Party's normal destruction policies and provided further that notwithstanding the expiration of this Agreement pursuant to Section 3.13, all provisions of this Agreement shall continue to apply with full force and effect to any materials containing Confidential Information which are retained by Receiving Party or its Representatives following a written request for the return or destruction thereof pursuant to this Section 2.6. Compliance with this Section 2.6 shall not relieve Receiving Party of its other obligations under this Agreement.

3. GENERAL

3.1 THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF TEXAS, REGARDLESS OF CONFLICTS OF LAWS PRINCIPLES THAT MIGHT APPLY THE LAWS OF ANOTHER JURISDICTION. EACH PARTY HEREBY CONSENTS TO THE JURISDICTION AND VENUE OF THE COMPETENT STATE AND FEDERAL COURTS LOCATED IN HARRIS COUNTY, TEXAS FOR ANY ACTION BROUGHT UNDER THIS LETTER AGREEMENT. EACH PARTY HEREBY IRREVOCABLY WAIVES ANY OBJECTION TO SUCH COURTS ON JURISDICTION, CONVENIENCE OR ANY OTHER GROUND. THE PRECEDING SHALL NOT APPLY TO A PARTY'S SEEKING TO ENFORCE A JUDGMENT OF SUCH COURT IN ANOTHER COURT, VENUE, OR JURISDICTION.

3.2 EACH PARTY HEREBY IRREVOCABLY WAIVES ANY RIGHT TO TRIAL BY JURY.

3.3 IN NO EVENT SHALL A PARTY BE ENTITLED TO RECOVER PUNITIVE, INDIRECT, CONSEQUENTIAL, LOST PROFIT, LOSS OF REVENUE OR OPPORTUNITY, SPECIAL OR EXEMPLARY DAMAGES UNDER THIS AGREEMENT.

3.4 If any provision of this Agreement is declared void or otherwise unenforceable, such provision shall be deemed to have been severed from this Agreement, which shall otherwise remain in full force and effect.

3.5 No failure or delay by a Party in exercising any right, power or privilege hereunder shall operate as a waiver thereof, nor shall any single or partial exercise thereof preclude any other or further exercise thereof or the exercise of any other right, power or privilege hereunder.

3.6 Receiving Party hereby acknowledges and agrees that any Confidential Information disclosed to the Receiving Party is considered by the Disclosing Party to be of a special, unique and proprietary character and that in the event of any breach or threatened breach of any provision of this Agreement, remedies at law would be inadequate. The Receiving Party agrees, therefore, on behalf of itself and its Representatives that the Disclosing Party shall be entitled to specific performance and injunctive or other equitable relief without any showing of irreparable harm or damage, and the Receiving Party hereby waives, and shall cause its Representatives to waive, any requirement for the securing or posting of any bond or other security in connection with any such remedy. Such remedies shall not be deemed to be the exclusive remedies for any breach or threatened breach of this Agreement, but will be in addition to all other remedies available at law or

in equity to the Disclosing Party or any of its affiliates. Any trade secrets included in the Confidential Information will also be entitled to all of the protections and benefits under applicable trade secret law. The Receiving Party hereby waives, and shall use all reasonable efforts to cause its Representatives to waive, any requirement that the Disclosing Party or any of its affiliates submit proof of the economic value of any trade secret or post a bond or other security.

- 3.7 Neither this Agreement nor disclosure of any Confidential Information to the Receiving Party or its Representatives shall be deemed by implication or otherwise to vest in the Receiving Party or its Representatives rights in or to the Confidential Information, other than the right to use such Confidential Information solely for the Permitted Purpose. The Disclosing Party shall retain sole and exclusive ownership of all right, title, and interest in and to all Confidential Information and any and all materials provided by the Disclosing Party to the Receiving Party hereunder, and all intellectual property rights therein. Receiving Party's right to use the Confidential Information for the Permitted Purpose is revocable and not coupled with an interest in any Confidential Information. No license by implication, estoppel, or otherwise under any patent, copyright, trade secret, trade mark, or other intellectual property right is granted by the Disclosing Party hereunder. Neither Party represents or warrants that Confidential Information disclosed hereunder will not infringe any third party's patents, copyrights or trade secrets or other proprietary rights.
- 3.8 The Receiving Party acknowledges, on behalf of itself and its Representatives, that neither the Disclosing Party nor its Representatives makes any representations or warranties, express or implied, as to the accuracy or completeness of the Confidential Information, that neither the Disclosing Party nor its Representatives shall have any liability whatsoever to the Receiving Party or its Representatives or any other person as a result of the use of the Confidential Information or any errors therein or omissions therefrom by virtue of this Agreement and that the Receiving Party and its Representatives shall assume full responsibility for all conclusions derived from the Confidential Information.
- 3.9 Both Parties acknowledge and agree that neither Party is obligated to enter into or commence or continue any discussions or negotiations pertaining to the Project, and that no such obligation shall arise unless and until a definitive agreement relating to the Project is executed and delivered by the Parties.
- 3.10 No agency, partnership, joint venture or other joint relationship is created by this Agreement. There are no third parties that are intended to benefit from any of the agreements created hereby.
- 3.11 This Agreement shall not be assignable by Counterparty without the express written consent of Tennessee. This Agreement shall be binding upon the Parties hereto and upon their respective successors and assigns.

3.12 All notices, requests, claims, demands and other communications under this Agreement shall be in writing and shall be deemed given (i) upon receipt, if by personal delivery, by electronic mail, or by a recognized overnight courier service or (ii) three days after deposit with the U.S. Postal Service (first-class mail postage prepaid, return receipt requested), to the Parties at the following addresses (or at such other address for a Party as shall be specified by like notice):

(a) if to Tennessee:

BECKY MACK
MANAGER, BUSINESS DEVELOPMENT
TENNESSEE GAS PIPELINE COMPANY, L.L.C.
1001 LOUISIANA STREET
HOUSTON, TEXAS 77002
BECKY_MACK@KINDERMORGAN.COM

(b): if to Counterparty:

[INSERT CONTACT, TITLE, ADDRESS, EMAIL]

3.13 Except as otherwise provided herein, the restrictions and covenants set forth herein shall terminate and be of no further force and effect upon the two year anniversary of this Agreement; provided, however, that with respect to Confidential Information which constitutes a trade secret under applicable law, the Receiving Party's obligations pursuant to this Agreement shall survive so long as the Confidential Information remains a trade secret. For the avoidance of doubt, any Confidential Information retained by Receiving Party or its Representatives following a request for the return or destruction thereof pursuant to Section 2.7 shall remain subject to all provisions of this Agreement notwithstanding the expiration of this Agreement pursuant to this Section 3.13. Following the expiration or termination of this Agreement, the following provisions shall survive for purposes of any claim or dispute relating to the Agreement: 3.1, 3.2, 3.3, and 3.13.

3.14 This Agreement constitutes the entire agreement and supersedes all prior agreements and understandings, both written and oral, between the Parties with respect to the subject matter hereof.

3.15 This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which shall constitute the same agreement.

IN WITNESS WHEREOF, the Parties have caused their signatures to be hereto affixed as of the date first written above.

TENNESSEE GAS PIPELINE COMPANY, L.L.C.

By: _____

Name:

Title:

Date:

[INSERT COUNTERPARTY]

By: _____

Name: [INSERT]

Title: [INSERT]

Date:

**INVESTIGATION OF PARAMETERS FOR EXERCISING AUTHORITY PURSUANT TO
MAINE ENERGY COST REDUCTION ACT, 35-A M.R.S.A. SECTION 1901
2014-00071
RESPONSE TO ODR-002
BY TENNESSEE GAS PIPELINE COMPANY, LLC**

28-JUL-14

ODR-002-001

Q. Please provide the number of CES clients that were members of IECG during 2013-2014.

A. CES represents four known members of the IECG who consume or will consume natural gas and who all consume electricity.

**Author of Response:
Richard Silkman, CES**

List of Attachments

**INVESTIGATION OF PARAMETERS FOR EXERCISING AUTHORITY PURSUANT TO
MAINE ENERGY COST REDUCTION ACT, 35-A M.R.S.A. SECTION 1901
2014-00071
RESPONSE TO ODR-002
BY TENNESSEE GAS PIPELINE COMPANY, LLC**

28-JUL-14

ODR-002-002

Q. Please provide copies of any notes or notations regarding changes to CES testimony made as a result of suggestions by TGP.

A. Please see Attachment ODR-002-002, for a copy of the notations of Mark Isaacson. These are the only notes or notations.

**Author of Response:
Mark Isaacson, CES**

List of Attachments

1. 2014-00071 ODR-002-002 Attach.pdf

AB R2 MJ
LAURA BECKMAN
MDD PIEBACK
190-118

350

**INVESTIGATION OF PARAMETERS FOR EXERCISING AUTHORITY PURSUANT TO
MAINE ENERGY COST REDUCTION ACT, 35-A M.R.S.A. SECTION 1901
2014-00071
RESPONSE TO ODR-010
BY TENNESSEE GAS PIPELINE COMPANY, LLC**

18-AUG-14

ODR-010-001

Q. Please provide any methane emissions reports made by your pipeline for its interstate systems extending into the Marcellus region.

A. Tennessee Gas Pipeline Company, L.L.C. provides methane emission reports to the United States Environmental Protection Agency (EPA) under the EPA's Greenhouse Gas Reporting Program. TGP has attached to this response 15 final reports for the 2013 calendar year for the following compressor stations: 209, 214, 219, 224, 229, 241, 245, 249, 254, 261, 264, 307, 313, 315 and 321, which are located on TGP's system from Guernsey County, Ohio to New England. (These Compressor Stations are all the stations located on TGP's system from Guernsey County, Ohio to New England, with the exceptions of Stations 317 and 319, which did not meet the emissions threshold to trigger reporting to the EPA.) These reports are in the form prescribed by the EPA and include reporting of combustion, fugitive and vented GHG emissions from facilities with, or exceeding 25,000 tons of GHG emissions. Reports from TGP for the relevant regions for previous years may be found on the EPA's website at <http://www.epa.gov/ghgreporting/>. TGP also participates in the Massachusetts Greenhouse Gas Emissions Reporting Program and reports combustion, fugitive and vented GHG emissions for each compressor station and vented and fugitive GHG emissions for pipeline facilities. TGP has attached these reports for 2013. Reports from TGP for previous years are publicly available from the Massachusetts Office of Energy and Environmental Affairs. It is important to note that TGP's proposed NED Project presents an opportunity to install new, cleaner-burning, and more efficient equipment, which, per hour of operations, will have less combustion and fugitive emissions than the equipment that this the subject of the attached reports. TGP is also working to voluntarily decrease methane emissions on its existing transmission and storage facilities by implementing Direct Inspection and Maintenance (DI&M) guidelines developed by the Interstate Pipeline Association of America, the trade association for the interstate pipeline and storage industry. DI&M is a well-established and scientifically recognized tool for detecting and mitigating leaks in a cost-effective manner. TGP has committed to implementing the DI&M program at each of its compressor stations beginning in 2015 with full implementation achieved no later than March 31, 2016.

Author of Response:

C. Todd Piczak, Assistant General Counsel, Kinder Morgan Gas Pipelines

List of Attachments

1. ODR-010-001 Attach A-TGP 209 Final Report.pdf

2. ODR-010-001(b) TGP 214 Final Report.pdf
3. ODR-010-001(c) TGP 219 Final Report.pdf
4. ODR-010-001(d) TGP 224 Final Report.pdf
5. ODR-010-001(e) TGP 229 Final Report.pdf
6. ODR-010-001(f) TGP 241 Final Report.pdf
7. ODR-010-001(g) TGP 245 Final Report.pdf
8. ODR-010-001(h) TGP 249 Final Report.pdf
9. ODR-010-001(i) TGP 254 Final Report.pdf
10. ODR-010-001(j) TGP 307 Final Report.pdf
11. ODR-010-001(k) TGP 313 Final Report.pdf
12. ODR-010-001(l) TGP 315 Final Report.pdf
13. ODR-010-001(m) TGP 321 Final Report.pdf
14. ODR-010-001(n) TGP 261 Final Report.pdf
15. ODR-010-001(o) TGP 264 Final Report.pdf
16. ODR-010-001(p) Pipelines_Facility 2013.pdf
17. ODR-010-001(q) 261_Total Facility 2013.pdf
18. ODR-010-001(r) 264_Total Facility 2013.pdf
19. ODR-010-001(s) 266A_Facility Total 2013.pdf
20. ODR-010-001(t) 267_Facility Total 2013.pdf

ATTACHMENT

ODR-010-001(a)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 209 CAMBRIDGE (Cumberland)

Facility Identifier: 522295

Facility Reporting Year: 2013

Facility Location:

Address: 3428 CLAY PIKE RD

City: CUMBERLAND

State: OH

Postal Code: 43732

Facility Site Details:

CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons): 45514.5

CO2 equivalent emissions from supplier subparts LL-QQ (metric tons): 0

Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2013-01-01

GHG Report End Date: 2013-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Plant Code Indicator: N

Primary NAICS Code: 486210

Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: Kinder Morgan Energy Partners, L.P.

Address: 1001 Louisiana St, Suite 1000, Houston, TX 77002

Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.22 (Metric Tons)	
Nitrous Oxide		0.02 (Metric Tons)	
Carbon Dioxide		11414.8 (Metric Tons)	

Unit Details:

Unit Name : GP-209

Unit Type : OCS (Other combustion source)

Unit Description :

Other Unit Name :

Small Unit Aggregation Details:

Highest Maximum Rated Heat Input Capacity: 27.50

Emission Details:

Annual CO₂ mass emissions from sorbent: 0.0 (Metric Tons)

Annual Biogenic CO₂ Emissions: 0.0 (metric tons)

Annual Fossil fuel based CO₂ Emissions: 11414.8 (metric tons)

Tier Fuel Details:

Fuel : Natural Gas (Weighted U.S. Average)

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2013-01-01

Tier Methodology End Date : 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
11414.8 (Metric Tons)	0.22 (Metric Tons)	0.020 (Metric Tons)	5.5 (Metric Tons)	6.0 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		1362.54 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		24.7 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	66662.7
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	24.7
Total Reported CH4 Emissions (mt CO2e)	34063.4
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	34088.1

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.3
Total Reported CH4 Emissions (mt CO2e)	191.2
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	191.5
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	20.8
Total Reported CH4 Emissions (mt CO2e)	18310.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	18330.7
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	3.2
Total Reported CH4 Emissions (mt CO2e)	15145.3
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	15148.5
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.5
Total Reported CH4 Emissions (mt CO2e)	416.9
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	417.4
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.3
mt CH4 (mt CO2e)	191.2
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	191.5
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	Yes
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.2818455
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	191.198826
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	20.8
mt CH4 (mt CO2e)	18310.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	18330.7
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	15
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	20.7
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	17926.7

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0006168
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	2.9489626
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0006168
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	2.9489626
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-03
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0006168
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	2.9489626
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-04
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0006168
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	2.9489626
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-05
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0007796
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	3.7271611
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-06
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0007796
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	3.7271611
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-07
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.002
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	8.33
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-08
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0007796
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	3.7271611

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-09
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0007796
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	3.7271611
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-10
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0007796
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	3.7271611
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-11
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0015934
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	7.6181534
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-12
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0015934
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	7.6181534
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	209-A-13
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0015934
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	7.6181534
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	STA
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0672702
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	321.6212346

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No

Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

ReciprocatingCompressorsDetails:

mt CO2	3.2
mt CH4 (mt CO2e)	15145.3
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	15148.5
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	209-A-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	1047.5093317
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	21.7
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	

Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	1.8
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1134.2
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1157.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-02
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	3975.2739898
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	73.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	6.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0

Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1047.7
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1127.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-03
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	0
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	0.0
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2

Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1170.5
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1170.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-04
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	10839.6032979
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	212.8
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	17.7
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	814.2
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
	0.2

Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1044.6
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-05
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	10469.74564
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	191.3
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	15.9
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	850.1
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1057.3
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-06
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	7859.575071

Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	147.2
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	12.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.3
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1565.5
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.4
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1724.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-07
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	12751.7801193
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	269.9

Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	22.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	718.4
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1010.8
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-08
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	0
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	0.0
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0

Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1170.5
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1170.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-09
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	1965.8023005
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	36.0
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	3.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	

Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1110.3
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1149.3
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-10
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	8151.5023286
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	148.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	12.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	921.1
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
	0

Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1082.4
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-11
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	3969.7866831
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	41.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	3.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1101.3
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1146.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-12
Were Bamm Used for This Compressor?	No

Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	5411.6206801
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	60.1
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	5.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1069.8
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1135.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	209-A-13
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	220.4757946
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0

Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	2.5
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1166.4
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1169.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.5
mt CH4 (mt CO2e)	416.9
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	417.4
Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-06-25
	6

Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.5
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	366.9
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-06-25
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	23.5
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-06-25
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	

Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	26.5

ATTACHMENT

ODR-010-001(b)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 214 Carrollton**Facility Identifier:** 522372**Facility Reporting Year:** 2013**Facility Location:**

Address: 2029 COBBLER ROAD NE

City: CARROLLTON

State: OH

Postal Code: 44615

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 32201.7**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.17 (Metric Tons)	
Nitrous Oxide		0.02 (Metric Tons)	
Carbon Dioxide		9204.6 (Metric Tons)	

Unit Details:**Unit Name :** GP-214**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 22.00**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 9204.6 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
9204.6 (Metric Tons)	0.17 (Metric Tons)	0.020 (Metric Tons)	4.3 (Metric Tons)	6.0 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		918.85 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		15.6 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	40011.4
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	15.6
Total Reported CH4 Emissions (mt CO2e)	22971.3
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	22986.9

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	13.1
Total Reported CH4 Emissions (mt CO2e)	11794.9
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	11808.0
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	2.3
Total Reported CH4 Emissions (mt CO2e)	11076.4
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	11078.7
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	100.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	100.1
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	13.1
mt CH4 (mt CO2e)	11794.9
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	11808.0
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	6
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	13.0
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	11283.3

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.002
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	10.19
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.003
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	15.08
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-03
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.001
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	5.43
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-04
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.002
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	10.19
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-05
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.003
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	15.08
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-06
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.002
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	10.88
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-07
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.002
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	10.42
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-08
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.002
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	10.19

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-09
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.003
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	15.46
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-10
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.005
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	22.95
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-11
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.004
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	19.78
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-12
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.003
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	12.62
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	214-A-13
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.002
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	7.24
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	STA
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0723975
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	346.1349228

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No

Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

ReciprocatingCompressorsDetails:

mt CO2	2.3
mt CH4 (mt CO2e)	11076.4
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	11078.7
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	214-A-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	2328.4070749
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	47.3
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	

Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	3.9
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	789.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	840.2
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-02
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	1925.4890683
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	42.2
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	3.5
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	

Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	1.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	4556.2
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	1.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	4601.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-03
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	4746.873107
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	100.0
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	8.3
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	862.4
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	

Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	970.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-04
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	3038.6731368
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	67.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	5.6
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
	0.0

Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	73.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-05
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	2631.9764567
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	56.2
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	4.7
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.3
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1472.1
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.3
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1533.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-06
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	1992.8966443

Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	43.5
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	3.6
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	235.9
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	283.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-07
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	1680.825623
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	36.0

Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	3.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	38.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-08
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	3461.19387
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	74.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	6.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	

Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.1
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	490.1
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	571.2
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-09
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	2237.841934
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	49.6
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	4.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.1
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	425.0

Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	478.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-10
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	5599.7283191
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	78.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	6.5
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.1
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	406.1
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
	0

Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	491.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-11
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	3700.0639511
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	54.1
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	4.5
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.1
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	295.4
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	354.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-12
Were Bamm Used for This Compressor?	No

Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	6273.0854636
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	88.7
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	7.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	738.8
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	834.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	214-A-13
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	394.3946744
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0

Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	5.3
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	5.8
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	100.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	100.1
Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-06-20
	2

Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	47.1
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-06-20
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	2
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	52.9

ATTACHMENT

ODR-010-001(c)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 219 Mercer**Facility Identifier:** 522328**Facility Reporting Year:** 2013**Facility Location:**

Address: 1211 GREENVILLE MERCER ROAD

City: MERCER

State: PA

Postal Code: 16137

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 79124.8**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.09 (Metric Tons)	
Nitrous Oxide		0.009 (Metric Tons)	
Carbon Dioxide		4905 (Metric Tons)	

Unit Details:**Unit Name :** GP-219**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 66.00**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 4905.0 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
4905.0 (Metric Tons)	0.09 (Metric Tons)	0.009 (Metric Tons)	2.3 (Metric Tons)	2.7 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		2966.57 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		50.6 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	6571.9
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	50.6
Total Reported CH4 Emissions (mt CO2e)	74164.3
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	74214.9

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	47.5
Total Reported CH4 Emissions (mt CO2e)	41141.4
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	41188.8
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	2.9
Total Reported CH4 Emissions (mt CO2e)	32827.1
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	32830.0
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.2
Total Reported CH4 Emissions (mt CO2e)	195.8
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	196.1
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	47.5
mt CH4 (mt CO2e)	41141.4
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	41188.8
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	26
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	47.2
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	40946.3

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	STA
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.2249981
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	195.055368

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

ReciprocatingCompressorsDetails:

mt CO2	2.9
mt CH4 (mt CO2e)	32827.1
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	32830.0
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	219-A-01
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	666.5152848
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	12.8
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	1.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	226.2
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	240.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-02
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	213.349022
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	

Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	3.6
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.3
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.4
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	4331.9
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.4
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	4335.8
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-03
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	960.893252
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	18.2
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0

Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	1.5
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.1
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1122.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1141.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-04
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	1228.9299802
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	24.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	2.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0

Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.1
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	977.6
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1004.6
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-05
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	1226.6513862
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	25.0
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	2.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.1
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1621.9
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
	0

Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1648.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-06
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	1224.5362964
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	24.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	2.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	2711.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	2737.9

Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-07
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	22.7136231
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	0.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.6
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	7022.5
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.6
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	7022.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-08
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	10.4288504
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	

Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	0.2
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.1
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1381.9
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1382.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-09
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	337.1916599
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	6.0
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	

Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.5
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.3
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	3380.4
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.3
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	3386.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-10
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	219.8866801
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	3.8
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.3
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0

Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.1
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	916.5
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	920.6
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-11
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	223.5536116
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	3.8
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.3
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.2
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1718.4
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	

Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.2
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	1722.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-12
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	213.6855883
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	3.7
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.3
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
	4.0

Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-A-13
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	5.1561618
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	0.1
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.6
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	7279.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.6
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	7279.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	219-B-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	18.4340062
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No

Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	0.1
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	0.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.2
mt CH4 (mt CO2e)	195.8
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	196.1
Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
Were BAMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BAMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-06-19
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	2
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.2
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	122.3
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-06-19
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	2
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	47.1
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-06-19

Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	26.5

ATTACHMENT

ODR-010=001 (d)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 224 Clymer**Facility Identifier:** 538077**Facility Reporting Year:** 2013**Facility Location:**

Address: 9766 Ravlin Hill Rd

City: Clymer

State: NY

Postal Code: 14724

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 12662.1**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.21 (Metric Tons)	
Nitrous Oxide		0.02 (Metric Tons)	
Carbon Dioxide		11010.2 (Metric Tons)	

Unit Details:**Unit Name :** GP-224**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 17.25**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 11010.2 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	Y	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
11010.2 (Metric Tons)	0.21 (Metric Tons)	0.020 (Metric Tons)	5.3 (Metric Tons)	6.0 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		65.61 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		0.4 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	80720.1
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	0.4
Total Reported CH4 Emissions (mt CO2e)	1640.2
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	1640.6

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	63.7
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	63.8
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	319.6
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	319.6
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	1068.6
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	1068.7
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.2
Total Reported CH4 Emissions (mt CO2e)	188.2
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	188.5
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	63.7
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	63.8
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	Yes
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.0939485
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	63.732942
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	319.6
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	319.6
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	0
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	0.0
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	0.0

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	224-A-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0008064
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	10.8017933
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	224-A-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0008064
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	10.8017933
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	224-A-03
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.002
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	22.99
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	224-A-04
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0008064
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	10.8017933
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	STA
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0197221
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	264.1866029

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
	No

Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

ReciprocatingCompressorsDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	1068.6
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	1068.7
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	224-A-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	27735.4749053
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	300.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	25.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
	0.0

Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	33.2
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	359.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	224-A-02
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	35913.815859
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	378.7
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	31.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	26.7
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	

Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	436.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	224-A-03
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	13096.0713704
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	158.2
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	13.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	45.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
	0.0

Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	216.3
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	224-A-04
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	3974.6945305
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	52.1
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	4.3
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	56.4
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.2
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mt CH4 (mt CO2e)	188.2
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	188.5
Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-11-07
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	8
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.2
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	188.2

ATTACHMENT

ODR-010-001(e)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 229 Hamburg**Facility Identifier:** 522360**Facility Reporting Year:** 2013**Facility Location:**

Address: 7586 EAST EDEN ROAD

City: EDEN

State: NY

Postal Code: 14057

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 26651.7**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.44 (Metric Tons)	
Nitrous Oxide		0.04 (Metric Tons)	
Carbon Dioxide		23559.4 (Metric Tons)	

Unit Details:**Unit Name :** GP-229**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 14.06**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 23559.4 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
23559.4 (Metric Tons)	0.44 (Metric Tons)	0.040 (Metric Tons)	11.0 (Metric Tons)	11.9 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		122.73 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		1.1 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	5
Industry Segment Name	Underground natural gas storage [98.230(a)(5)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	113662
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	1.1
Total Reported CH4 Emissions (mt CO2e)	3068.3
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	3069.4

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.9
Total Reported CH4 Emissions (mt CO2e)	600.4
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	601.3
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.2
Total Reported CH4 Emissions (mt CO2e)	2467.9
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	2468.1
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.9
mt CH4 (mt CO2e)	600.4
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	601.3
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	Yes
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	Yes
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.6576395
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	446.130594
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.1213071
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	82.292535
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.1060792
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	71.9621955

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

ReciprocatingCompressorsDetails:

mt CO2	0.2
mt CH4 (mt CO2e)	2467.9
mt N2O (mt CO2e)	0.0

Total Emissions (mt CO2e)	2468.1
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	229-A-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	12616.576279
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	362.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	30.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	27.2
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	3.2
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0

Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	422.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	229-A-02
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	14505.0849231
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	433.8
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	36.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	21.8
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1.7
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	493.3
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	229-A-03
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	21560.2659336

Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	540.3
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	44.9
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	13.3
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	598.4
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	229-A-04
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	25318.6213274
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	418.2
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	

Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	6.5
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	424.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	229-A-05
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	22203.316835
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	145.5
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	

Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	12.6
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	158.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	229-A-06
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	17458.1781327
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	348.3
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	22.1
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	

Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.1
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	370.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the facility have any equipment leaks subject to reporting under 98.232?	No
Were BAMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BAMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

ATTACHMENT

ODR-010-001(f)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 241 Lafayette**Facility Identifier:** 522358**Facility Reporting Year:** 2013**Facility Location:**

Address: 3447 SENTINEL HEIGHTS ROAD

City: LAFAYETTE

State: NY

Postal Code: 13084

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 49167.7**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.7 (Metric Tons)	
Nitrous Oxide		0.07 (Metric Tons)	
Carbon Dioxide		37226.1 (Metric Tons)	

Unit Details:**Unit Name :** GP-241**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 35.00**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 37226.1 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
37226.1 (Metric Tons)	0.70 (Metric Tons)	0.070 (Metric Tons)	17.5 (Metric Tons)	20.9 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		475.72 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		10.2 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	266897.7
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	10.2
Total Reported CH4 Emissions (mt CO2e)	11893.1
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	11903.3

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	9.5
Total Reported CH4 Emissions (mt CO2e)	9105.5
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	9115.0
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.2
Total Reported CH4 Emissions (mt CO2e)	2344.1
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	2344.3
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236 (c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.5
Total Reported CH4 Emissions (mt CO2e)	443.4
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	444.0
Source Reporting Form	Local Distribution Companies [98.236(c) (16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	9.5
mt CH4 (mt CO2e)	9105.5
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	9115.0
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	1
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	9.4
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	8168.3

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	241-A-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.008
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	93.18
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	241-A-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.005
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	64.79
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	241-A-03
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.01
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	155.06
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	241-B-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.005
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	57.73
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	241-B-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.005
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	57.77
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	STA
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.04
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	508.68

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

ReciprocatingCompressorsDetails:

mt CO2	0.2
mt CH4 (mt CO2e)	2344.1
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	2344.3
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	241-A-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	52909.9698736
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	440.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0

Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	36.6
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	21.5
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	9.1
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	508.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	241-A-02
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	46492.2523495
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	390.5
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	32.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	25.5

Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	9.5
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	457.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	241-A-03
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	90248.0389846
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	506.2
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	42.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	15.7
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
	0

Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	564.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	241-B-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	38744.1644052
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	346.8
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	28.8
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	29.7
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.3
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	405.6

Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	241-B-02
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	38503.2505438
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	348.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	28.9
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	29.6
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1.6
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	408.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.5
mt CH4 (mt CO2e)	443.4
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	444.0
	Yes

Does the facility have any equipment leaks subject to reporting under 98.232?	
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-23
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	6
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.2
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	138.2
Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Open-Ended Line
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-23
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	2
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	

Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.2
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	142.3
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-23
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	23.5
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Open-Ended Line
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-23
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	3
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.2
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	139.3

ATTACHMENT

ODR-010-001(g)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 245 West Winfield**Facility Identifier:** 522320**Facility Reporting Year:** 2013**Facility Location:**

Address: 457 BURROWS RD

City: WEST WINFIELD

State: NY

Postal Code: 13491

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 58759.9**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.98 (Metric Tons)	
Nitrous Oxide		0.1 (Metric Tons)	
Carbon Dioxide		52126.5 (Metric Tons)	

Unit Details:**Unit Name :** GP-245**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 33.10**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 52126.5 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
52126.5 (Metric Tons)	0.98 (Metric Tons)	0.100 (Metric Tons)	24.5 (Metric Tons)	29.8 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		263.1 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		1.6 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	323856
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	1.6
Total Reported CH4 Emissions (mt CO2e)	6577.4
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	6579.0

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.2
Total Reported CH4 Emissions (mt CO2e)	127.5
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	127.7
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	537.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	537.1
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.7
Total Reported CH4 Emissions (mt CO2e)	5409.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	5409.7
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.6
Total Reported CH4 Emissions (mt CO2e)	503.9
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	504.5
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.2
mt CH4 (mt CO2e)	127.5
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	127.7
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	Yes
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.187897
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	127.465884
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	537.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	537.1
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	0
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	0.0
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	0.0

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	245-A-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.001
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	10.89
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	245-A-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0030573
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	22.3607921
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	245-A-03
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.004719
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	34.5142946
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	245-A-04
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0015395
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	11.2598003
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	245-A-05
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.003
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	24.8
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	245-A-06
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.01
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	80.97
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	245-A-07
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.004
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	25.97
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	245-B-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.006
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	46.37

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	245-B-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.01
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	69.94
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	STA
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0287063
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	209.9532315

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

ReciprocatingCompressorsDetails:

mt CO2	0.7
mt CH4 (mt CO2e)	5409.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	5409.7
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes

Were BAMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BAMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	245-A-01
Were BAMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	28417.7426042
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	601.6
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	50.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	7.9
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1.2
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
	660.6

Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	245-A-02
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	29347.6888494
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	614.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	51.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	7.4
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	672.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	245-A-03
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	29355.7507645
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No

Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	602.8
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	50.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	7.8
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.7
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	661.3
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	245-A-04
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	30909.3289422
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	761.0
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0

Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	33.4
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	6.3
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	800.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	245-A-05
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	30606.7101941
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	628.0
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	52.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	

Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	6.3
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	686.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	245-A-06
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	74902.3664025
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	677.7
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	56.3
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	2.2
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	

Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	736.2
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	245-A-07
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	30363.3867235
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	276.0
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	21.4
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
	0.0

Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	297.4
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	245-B-01
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	40500.7334494
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	438.5
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	36.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	21.2
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	7.5
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	503.6
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	245-B-02
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	29452.3098589

Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	327.2
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	27.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	31.1
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	4.2
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	389.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.6
mt CH4 (mt CO2e)	503.9
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	504.5
Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
	No

Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
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EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-24
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	5
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	115.2
Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Open-Ended Line
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-24
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	2
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.2
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	142.3
Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Valve

Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-24
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	61.2
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-24
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	7
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.2
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	185.2

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 249 Carlisle

Facility Identifier: 522373

Facility Reporting Year: 2013

Facility Location:

Address: 2840 US RT 20 EAST

City: CARLISLE

State: NY

Postal Code: 12031

Facility Site Details:

CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons): 42025.7

CO2 equivalent emissions from supplier subparts LL-QQ (metric tons): 0

Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2013-01-01

GHG Report End Date: 2013-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Plant Code Indicator: N

Primary NAICS Code: 486210

Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: Kinder Morgan Energy Partners, L.P.

Address: 1001 Louisiana St, Suite 1000, Houston, TX 77002

Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.74 (Metric Tons)	
Nitrous Oxide		0.07 (Metric Tons)	
Carbon Dioxide		39034.1 (Metric Tons)	

Unit Details:

Unit Name : GP-249

Unit Type : OCS (Other combustion source)

Unit Description :

Other Unit Name :

Small Unit Aggregation Details:

Highest Maximum Rated Heat Input Capacity: 46.40

Emission Details:

Annual CO₂ mass emissions from sorbent: 0.0 (Metric Tons)

Annual Biogenic CO₂ Emissions: 0.0 (metric tons)

Annual Fossil fuel based CO₂ Emissions: 39034.1 (metric tons)

Tier Fuel Details:

Fuel : Natural Gas (Weighted U.S. Average)

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2013-01-01

Tier Methodology End Date : 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
39034.1 (Metric Tons)	0.74 (Metric Tons)	0.070 (Metric Tons)	18.5 (Metric Tons)	20.9 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		118.06 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		0.7 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	305167.5
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	0.7
Total Reported CH4 Emissions (mt CO2e)	2951.4
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	2952.1

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.2
Total Reported CH4 Emissions (mt CO2e)	684.3
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	684.5
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.3
Total Reported CH4 Emissions (mt CO2e)	2037.1
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	2037.4
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.3
Total Reported CH4 Emissions (mt CO2e)	230.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	230.2
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	0.2
mt CH4 (mt CO2e)	684.3
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	684.5
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	6
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	0.1
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	88.9

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	249-A-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.01
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	109.5
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	249-A-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.01
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	99.05
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	249-B-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.003
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	24.48
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	249-B-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.005
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	35.22
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	STA
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0447313
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	327.1582176

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
	No

Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

ReciprocatingCompressorsDetails:

mt CO2	0.3
mt CH4 (mt CO2e)	2037.1
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	2037.4
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	249-A-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	150852.8711467
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	228.8
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.1
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	395.3
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
	0.0

Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	7.5
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	1.4
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	633.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	249-A-02
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	72226.8524788
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	477.1
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	39.6
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	18.9
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	

Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	535.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	249-B-01
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	41475.650429
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	379.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	31.5
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	26.9
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.2
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
	0.1

Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	437.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	249-B-02
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	40612.1281858
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	372.1
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	30.9
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	27.6
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	430.6
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.3
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mt CH4 (mt CO2e)	230.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	230.2
Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Open-Ended Line
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-25
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	2
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.2
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	142.3
Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-25
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	

Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	61.2
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-09-25
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	26.5

ATTACHMENT
ODR-010-001(i)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 254 Nassau

Facility Identifier: 538114

Facility Reporting Year: 2013

Facility Location:

Address: 5035 SR 66

City: Nassau

State: NY

Postal Code: 12123

Facility Site Details:

CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons): 33402.1

CO2 equivalent emissions from supplier subparts LL-QQ (metric tons): 0

Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2013-01-01

GHG Report End Date: 2013-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Plant Code Indicator: N

Primary NAICS Code: 486210

Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: Kinder Morgan Energy Partners, L.P.

Address: 1001 Louisiana St, Suite 1000, Houston, TX 77002

Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.59 (Metric Tons)	
Nitrous Oxide		0.06 (Metric Tons)	
Carbon Dioxide		31065.8 (Metric Tons)	

Unit Details:

Unit Name : GP-254

Unit Type : OCS (Other combustion source)

Unit Description :

Other Unit Name :

Small Unit Aggregation Details:

Highest Maximum Rated Heat Input Capacity: 68.00

Emission Details:

Annual CO₂ mass emissions from sorbent: 0.0 (Metric Tons)

Annual Biogenic CO₂ Emissions: 0.0 (metric tons)

Annual Fossil fuel based CO₂ Emissions: 31065.8 (metric tons)

Tier Fuel Details:

Fuel : Natural Gas (Weighted U.S. Average)

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2013-01-01

Tier Methodology End Date : 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
31065.8 (Metric Tons)	0.59 (Metric Tons)	0.060 (Metric Tons)	14.8 (Metric Tons)	17.9 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		92.12 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		0.7 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	189460.5
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	0.7
Total Reported CH4 Emissions (mt CO2e)	2303.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	2303.7

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.3
Total Reported CH4 Emissions (mt CO2e)	191.2
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	191.5
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	532.1
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	532.2
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	194.1
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	194.1
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.3
Total Reported CH4 Emissions (mt CO2e)	1385.6
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	1385.9
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.3
mt CH4 (mt CO2e)	191.2
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	191.5
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	Yes
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.2818455
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	191.198826
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	532.1
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	532.2
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	0
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	0.0
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	0.0

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	254-A-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0015663
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	8.0955436
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	254-A-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0015663
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	8.0955436
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	254-A-03
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0015663
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	8.0955436
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	254-A-04
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0015663
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	8.0955436
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	254-A-05
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0015663
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	8.0955436
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	254-A-06
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0063434
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	32.7861351
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	254-B-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.04
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	232.43
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	STA
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0437987
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	226.3770852

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	194.1
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	194.1
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

CentrifugalCompressorsModesRowDetails:

Compressor ID	254-B-02
Were BMM Used for This Compressor?	No
Seal Type (wet or dry)	Dry
Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	130113.388325
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	

Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	153.9
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	40.2
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	194.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

ReciprocatingCompressorsDetails:

mt CO2	0.3
mt CH4 (mt CO2e)	1385.6
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	1385.9
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	254-A-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	10088.2800303
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0

Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	217.2
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	18.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	235.3
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	254-A-02
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	10496.10018
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	224.2
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	18.6

Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	1.7
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	244.6
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	254-A-03
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	9873.5650838
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	212.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	17.7
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	

Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	230.6
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	254-A-04
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	10001.8117624
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	216.3
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	18.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
	0

Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	234.2
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	254-A-05
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	9733.6242039
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	207.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	17.3
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	225.2
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

Compressor ID	254-A-06
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	9153.7269017
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	197.5
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	16.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	1.8
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	215.8
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the facility have any equipment leaks subject to reporting under 98.232?	No
	No

Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

ATTACHMENT

ODR-010-001(j)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 307 Pigeon (Kane)**Facility Identifier:** 522323**Facility Reporting Year:** 2013**Facility Location:**

Address: 44264 ROUTE 66

City: MARIENVILLE

State: PA

Postal Code: 16239

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 24797**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.42 (Metric Tons)	
Nitrous Oxide		0.04 (Metric Tons)	
Carbon Dioxide		22175.8 (Metric Tons)	

Unit Details:**Unit Name :** GP-307**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 34.00**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 22175.8 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
22175.8 (Metric Tons)	0.42 (Metric Tons)	0.040 (Metric Tons)	10.5 (Metric Tons)	11.9 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		103.93 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		0.5 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	163848.4
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	0.5
Total Reported CH4 Emissions (mt CO2e)	2598.2
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	2598.8

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	303.8
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	303.8
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	1990.2
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	1990.3
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236 (c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.4
Total Reported CH4 Emissions (mt CO2e)	304.3
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	304.6
Source Reporting Form	Local Distribution Companies [98.236(c) (16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	303.8
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	303.8
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	3
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	0.0
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	13.7

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	1
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0002127
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	3.5672999
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	307-A-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0007
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	13.14
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	307-A-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.002
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	39.29
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	307-A-03
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.003
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	45.85
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	307-A-04
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0006
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	10.36
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	307-A-05
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.005
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	77.4
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	307-A-06
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.006
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	100.49

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
	No

Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

ReciprocatingCompressorsDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	1990.2
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	1990.3
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	307-A-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	30926.3783814
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
	0.0

Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	374.8
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	31.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.1
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	406.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	307-A-02
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	22725.1859978
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	279.5
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0

Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	23.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	35.4
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	338.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	307-A-03
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	30137.7927003
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	362.0
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	30.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	27.6

Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	8.3
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	427.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	307-A-04
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	18454.8445954
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	227.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	18.9
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
	0

Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	246.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	307-A-05
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	16575.085374
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	134.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	11.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	47.4
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	193.1

Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	307-A-06
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	45029.1585859
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	313.6
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	26.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	32.5
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	6.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	378.2
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.4
mt CH4 (mt CO2e)	304.3
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	304.6
	Yes

Does the facility have any equipment leaks subject to reporting under 98.232?	
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-11-04
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	23.0
Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Open-Ended Line
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-11-04
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	

Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	71.2
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-11-04
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	4
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	94.1
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Open-Ended Line
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-11-04
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	46.4
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Pressure Relief Valve

Date of first complete survey [98.236(c)(15)(i)(A)]	2013-11-04
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	2
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	16.6
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-11-04
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	2
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	52.9

ATTACHMENT

ODR-010-001(k)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 313 Coudersport**Facility Identifier:** 522370**Facility Reporting Year:** 2013**Facility Location:**

Address: 197 TENNESSEE ROAD

City: COUDERSPORT

State: PA

Postal Code: 16915

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 47872.4**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.8 (Metric Tons)	
Nitrous Oxide		0.082 (Metric Tons)	
Carbon Dioxide		42193.1 (Metric Tons)	

Unit Details:**Unit Name :** GP-313**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 29.55**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 41289.5 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
41289.5 (Metric Tons)	0.78 (Metric Tons)	0.080 (Metric Tons)	19.5 (Metric Tons)	23.8 (Metric Tons)

Unit Name : Incinerator-1

Unit Type : ICI (Incinerator, commercial and industrial)

Unit Description :

Individual Unit Details:

Maximum Rated Heat Input Capacity: 1.95 (mmBtu/hr)

Emission Details:

Annual CO₂ mass emissions from sorbent: 0.0 (Metric Tons)

Annual Biogenic CO₂ Emissions: 0.0 (metric tons)

Annual Fossil fuel based CO₂ Emissions: (metric tons)

Tier Fuel Details:

Fuel : Natural Gas (Weighted U.S. Average)

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2013-01-01

Tier Methodology End Date : 2013-12-31

Frequency of HHV determinations : Monthly

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
903.6 (Metric Tons)	0.02 (Metric Tons)	0.002 (Metric Tons)	0.5 (Metric Tons)	0.6 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		225.37 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		0.6 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	5
Industry Segment Name	Underground natural gas storage [98.230 (a)(5)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	171777.5
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO ₂ Emissions (mt CO ₂)	0.6
Total Reported CH ₄ Emissions (mt CO ₂ e)	5634.3
Total Reported N ₂ O Emissions (mt CO ₂ e)	0.0
Total Reported Emissions (mt CO ₂ e)	5635.0

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.3
Total Reported CH4 Emissions (mt CO2e)	220.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	220.3
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]

Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.3
Total Reported CH4 Emissions (mt CO2e)	5414.4
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	5414.7
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A

Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.3
mt CH4 (mt CO2e)	220.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	220.3
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	Yes
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.2818455
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	191.198826
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.0424317

Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	28.7848782
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CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

ReciprocatingCompressorsDetails:

mt CO2	0.3
mt CH4 (mt CO2e)	5414.4
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	5414.7
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	313-A-01
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	21336.7653367
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	568.7
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
	0.0

Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	47.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	11.4
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	627.3
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-A-02
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	17938.5557999
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	484.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	40.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0

Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	18.4
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	543.0
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-A-03
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	10995.8960593
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	303.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	25.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	33.4
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	

Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	362.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-A-04
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	11498.0940389
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	351.1
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	29.2
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	29.5
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
	409.7

Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-A-05
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	12034.3562129
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	374.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	31.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	27.5
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	433.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-A-06
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	12113.2209582
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No

Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	377.4
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	31.3
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	26.3
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.6
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	435.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-A-07
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	12175.8141085
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	366.6
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	

Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	30.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	27.8
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.3
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	425.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-A-08
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	14188.9725184
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	389.7
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	32.4
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	

Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	25.8
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.4
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	448.1
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-A-09
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	10339.0810529
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	283.6
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	23.5
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	32.9
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	2.7
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	

Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	342.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-A-11
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	5037.930203
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	84.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	7.1
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	51.6
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
	0.0

Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	143.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-A-12
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	3302.6249349
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	79.7
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	6.6
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	52.0
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.4
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	138.6
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-B-01
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	17028.8916877

Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	323.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	26.9
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	31.2
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	20.2
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	402.2
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-B-02
Were BMM Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	22238.0628079
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	322.1

Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	26.7
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	29.5
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	259.2
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	637.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	313-C-01
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	1549.2475966
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.0
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	6.7
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	0.6
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	

Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	58.1
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	65.3
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the facility have any equipment leaks subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

ATTACHMENT

ODR-010-001(1)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 315 Wellsboro**Facility Identifier:** 547806**Facility Reporting Year:** 2013**Facility Location:**

Address: 41:48:20, -77:17:00

City: Wellsboro

State: PA

Postal Code: 16901

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 51605.1**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.97 (Metric Tons)	
Nitrous Oxide		0.01 (Metric Tons)	
Carbon Dioxide		51280.4 (Metric Tons)	

Unit Details:**Unit Name :** GP-315**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 134.19**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 51280.4 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
51280.4 (Metric Tons)	0.97 (Metric Tons)	0.010 (Metric Tons)	24.3 (Metric Tons)	3.0 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		11.9 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		0 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	470188.4
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	297.4
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	297.4

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	270.9
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	270.9
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236 (c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	26.5
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	26.5
Source Reporting Form	Local Distribution Companies [98.236(c) (16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0
Does the facility have any blowdown vent stacks?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total number of blowdowns [98.236(c)(7)(ii)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0

Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	270.9
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	270.9
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

CentrifugalCompressorsModesRowDetails:

Compressor ID	315-A-02
Were BMM Used for This Compressor?	No
Seal Type (wet or dry)	Dry
Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	470188.3910159
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	0
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	
Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	269.5
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0

Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	1.4
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	270.9
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

ReciprocatingCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any reciprocating compressors subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	26.5
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	26.5
Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-10-01
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1

Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	26.5

ATTACHMENT

ODR-010-001 (m)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 321 Clifford**Facility Identifier:** 538075**Facility Reporting Year:** 2013**Facility Location:**

Address: 41 deg 42 min 35 sec N and 75 deg 35 min 59 sec W

City: Uniondale

State: PA

Postal Code: 18470

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 38757.1**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.47 (Metric Tons)	
Nitrous Oxide		0.05 (Metric Tons)	
Carbon Dioxide		24976.4 (Metric Tons)	

Unit Details:**Unit Name :** GP-321**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 36.79**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 24976.4 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
24976.4 (Metric Tons)	0.47 (Metric Tons)	0.050 (Metric Tons)	11.8 (Metric Tons)	14.9 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		549.71 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		11.3 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	173847.9
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	11.3
Total Reported CH4 Emissions (mt CO2e)	13742.7
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	13754.0

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	63.7
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	63.8
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	11.1
Total Reported CH4 Emissions (mt CO2e)	11096.1
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	11107.2
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	2582.9
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	2582.9
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236 (c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Local Distribution Companies [98.236(c) (16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	63.7
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	63.8
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	Yes
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.0939485
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	63.732942
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	

BlowdownVentStacksDetails:

mt CO2	11.1
mt CH4 (mt CO2e)	11096.1
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	11107.2
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	6
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	11.1
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	9587.4

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	321-B-05
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.009
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	278.42
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	321-B-06
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.02
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	543.56
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	321-B-07
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.01
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	339.15
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	STA
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0113228
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	347.5526134

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	2582.9
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	2582.9
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

CentrifugalCompressorsModesRowDetails:

Compressor ID	321-B-05
Were Bamm Used for This Compressor?	No
Seal Type (wet or dry)	Wet
Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	55026.6252725
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	0
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	0.0
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	14.6
Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	
Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	108.7
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	453.2
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	576.4
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	321-B-06
Were Bamm Used for This Compressor?	No
Seal Type (wet or dry)	Wet
	58998.326019

Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	0
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	0.0
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	16.7
Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	
Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	124.5
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	410.1
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	551.3
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	321-B-07
Were Bamm Used for This Compressor?	No
Seal Type (wet or dry)	Wet
Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	59822.9079573
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	0
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	

Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	0.0
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	16.9
Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	
Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	126.2
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	1312.0
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	1455.2
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

ReciprocatingCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any reciprocating compressors subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	0.0

Does the facility have any equipment leaks subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

ATTACHMENT

ODR-010-001(n)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 261 Agawam**Facility Identifier:** 547786**Facility Reporting Year:** 2013**Facility Location:**

Address: 1615 Suffield St

City: Agawam

State: MA

Postal Code: 01001

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 42784.1**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.7 (Metric Tons)	
Nitrous Oxide		0.07 (Metric Tons)	
Carbon Dioxide		36968.4 (Metric Tons)	

Unit Details:**Unit Name :** GP-261**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 58.53**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 36968.4 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
36968.4 (Metric Tons)	0.70 (Metric Tons)	0.070 (Metric Tons)	17.5 (Metric Tons)	20.9 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		230.92 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		4.3 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	209213.3
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	4.3
Total Reported CH4 Emissions (mt CO2e)	5773.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	5777.4

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.5
Total Reported CH4 Emissions (mt CO2e)	333.1
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	333.5
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	3.3
Total Reported CH4 Emissions (mt CO2e)	4149.3
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	4152.6
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	553.4
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	553.5
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	491.4
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	491.5
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236(c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.3
Total Reported CH4 Emissions (mt CO2e)	245.9
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	246.2
Source Reporting Form	Local Distribution Companies [98.236(c)(16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.5
mt CH4 (mt CO2e)	333.1
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	333.5
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	Yes
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.4697425
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	318.66471
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.0212158
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	14.3924391

BlowdownVentStacksDetails:

mt CO2	3.3
mt CH4 (mt CO2e)	4149.3
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	4152.6
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	7
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	3.0
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	2559.1

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	1
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0031912
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	14.1537129
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	261-A-04
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.09412
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	417.4812
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	261-A-05
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0186
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	82.446
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	261-B-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.01918
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	85.0788
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	261-C-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.1241
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	550.245
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	261-D-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.0385
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	170.7304
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	STA
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.060888
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	270.0539247

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
	No

Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	553.4
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	553.5
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

CentrifugalCompressorsModesRowDetails:

Compressor ID	261-A-05
Were BMM Used for This Compressor?	No
Seal Type (wet or dry)	Dry
Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	86820.6124356
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	0
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	
Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	160.6
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0

Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	160.6
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	261-B-01
Were BMM Used for This Compressor?	No
Seal Type (wet or dry)	Wet
Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	3130.3264796
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	1
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	0.0
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	3.5
Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	
Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	26.2
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	7.0
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0

Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	36.6
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	261-C-01
Were BMM Used for This Compressor?	No
Seal Type (wet or dry)	Wet
Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	36291.0298851
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	1
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	0.0
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	16.9
Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	
Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	126.4
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	76.1
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	219.5
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	261-D-01
Were BMM Used for This Compressor?	No
Seal Type (wet or dry)	Dry

Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	65163.3433165
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	0
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	
Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	136.7
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	136.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

ReciprocatingCompressorsDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	491.4
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	491.5
Does the facility have any reciprocating compressors subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

ReciprocatingCompressorsModesRowDetails:

Compressor ID	261-A-04
Were Bamm Used for This Compressor?	No
Annual throughput using an engineering calculation based on best available data (million SCF) [98.236(c)(14)(i)(A)]	17807.9587099
Were blowdown vents manifolded to rod packing vents for this compressor? [98.236(c)(14)(ii)]	No
Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	
Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	
Not Measured - Rod packing CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(i)(C)]	0.1
Not Measured - Rod packing CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(i)(C)]	432.9
Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in operating mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in operating mode (mt CO2e) [98.236(c)(14)(ii)(C)]	36.0
Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	
Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	
Not Measured - Blowdown vent CO2 emissions when in standby pressurized mode (mt CO2) [98.236(c)(14)(ii)(C)]	0.0
Not Measured - Blowdown vent CH4 emissions when in standby pressurized mode (mt CO2e) [98.236(c)(14)(ii)(C)]	22.5
Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions in not operating, depressurized mode (mt CO2) [98.236(c)(14)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions in not operating, depressurized mode (mt CO2e) [98.236(c)(14)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(14)(iv)]	0.1
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(14)(iv)]	491.4
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

OtherEmissionsFromEquipmentLeaksDetails:

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mt CO2	0.3
mt CH4 (mt CO2e)	245.9
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	246.2
Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-10-09
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	23.0
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-10-09
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	3
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	

Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	70.6
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Open-Ended Line
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-10-09
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	46.4
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-10-09
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	4
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	

CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.1
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	105.8

ATTACHMENT

ODR-010-001(o)

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: TGP Station 264 Charlton**Facility Identifier:** 538071**Facility Reporting Year:** 2013**Facility Location:**

Address: 196 Carpenter Hill Rd

City: Charlton

State: MA

Postal Code: 01507

Facility Site Details:**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 37959.7**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2013-01-01**GHG Report End Date:** 2013-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** N**Primary NAICS Code:** 486210**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** Kinder Morgan Energy Partners, L.P.**Address:** 1001 Louisiana St, Suite 1000, Houston, TX 77002**Percent Ownership Interest:** 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.65 (Metric Tons)	
Nitrous Oxide		0.07 (Metric Tons)	
Carbon Dioxide		34522 (Metric Tons)	

Unit Details:**Unit Name :** GP-264**Unit Type :** OCS (Other combustion source)**Unit Description :****Other Unit Name :****Small Unit Aggregation Details:****Highest Maximum Rated Heat Input Capacity:** 57.47**Emission Details:****Annual CO₂ mass emissions from sorbent:** 0.0 (Metric Tons)**Annual Biogenic CO₂ Emissions:** 0.0 (metric tons)**Annual Fossil fuel based CO₂ Emissions:** 34522.0 (metric tons)**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2013-01-01**Tier Methodology End Date :** 2013-12-31

Frequency of HHV determinations : Daily

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
34522.0 (Metric Tons)	0.65 (Metric Tons)	0.070 (Metric Tons)	16.3 (Metric Tons)	20.9 (Metric Tons)

Subpart W: Petroleum and Natural Gas Systems

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Methane		135.89 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	
Carbon Dioxide		3.3 (Metric Tons)	

SubpartWSummaryDetails:

Industry Segment Number	4
Industry Segment Name	Onshore natural gas transmission compression [98.230(a)(4)]
Annual throughput [98.236(d)] Gaseous Throughput (MMscf)	210997
Annual throughput [98.236(d)] Liquid Throughput (thousand barrels)	0
Total Reported CO2 Emissions (mt CO2)	3.3
Total Reported CH4 Emissions (mt CO2e)	3397.3
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	3400.5

SubpartWSourceReportingFormRowDetails:

Source Reporting Form	Sub-Basin Selection
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	N/A
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	N/A
Source Reporting Form	Natural Gas Pneumatic Devices [98.236(c)(1)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	33.6
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	33.6
Source Reporting Form	Natural Gas Driven Pneumatic Pumps [98.236(c)(2)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Acid Gas Removal Units [98.236(c)(3)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Dehydrators [98.236(c)(4)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Venting for Liquids Unloading [98.236(c)(5)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Gas Well Completions and Workovers [98.236(c)(6)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Blowdown Vent Stacks [98.236(c)(7)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	3.1
Total Reported CH4 Emissions (mt CO2e)	2924.8
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	2927.8
Source Reporting Form	Gas from Produced Oil Sent to Atmospheric Tanks [98.236(c)(8)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Transmission Tanks [98.236(c)(9)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Well Testing Venting and Flaring [98.236(c)(10)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Associated Gas Venting and Flaring [98.236(c)(11)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

Source Reporting Form	Flare Stacks [98.236(c)(12)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Centrifugal Compressors [98.236(c)(13)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	388.9
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	389.0
Source Reporting Form	Reciprocating Compressors [98.236(c)(14)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Other Emissions from Equipment Leaks Estimated Using Emission Factors [98.236 (c)(15)]
Required for Selected Industry Segment	Yes
Total Reported CO2 Emissions (mt CO2)	0.1
Total Reported CH4 Emissions (mt CO2e)	50.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	50.0
Source Reporting Form	Local Distribution Companies [98.236(c) (16)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Injection Pump Blowdown [98.236(c)(17)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Enhanced Oil Recovery Hydrocarbon Liquids Dissolved CO2 [98.236(c)(18)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	N/A
Total Reported N2O Emissions (mt CO2e)	N/A
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Onshore Petroleum and Natural Gas Production and Natural Gas Distribution Combustion Emissions [98.236(c)(19)]
Required for Selected Industry Segment	No
Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0
Source Reporting Form	Offshore Sources [98.236(b)]
Required for Selected Industry Segment	No

Total Reported CO2 Emissions (mt CO2)	0.0
Total Reported CH4 Emissions (mt CO2e)	0.0
Total Reported N2O Emissions (mt CO2e)	0.0
Total Reported Emissions (mt CO2e)	0.0

PneumaticDeviceVentingDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	33.6
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	33.6
Does the Facility have any continuous high-bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any intermittent bleed pneumatic devices subject to reporting under 98.232?	No
Does the Facility have any continuous low-bleed pneumatic devices subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of each BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No

PneumaticDeviceTypesRowDetails:

Type of Pneumatic Device	High-bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Intermittent Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	
Type of Pneumatic Device	Low-Bleed Pneumatic Devices
Total CO2 Emissions (mt CO2) [98.236(c)(1)(iv)]	0.0495036
Total CH4 Emissions (mt CO2e) [98.236(c)(1)(iv)]	33.5823579

BlowdownVentStacksDetails:

mt CO2	3.1
mt CH4 (mt CO2e)	2924.8
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	2927.8
Does the facility have any blowdown vent stacks?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total number of blowdowns [98.236(c)(7)(ii)(A)]	7
Total CO2 Emissions (mt CO2) [98.236(c)(7)(ii)(B)]	3.0
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(ii)(B)]	2585.5

BlowdownVentStacksForEachUniquePhysicalVolumeRowDetails:

Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	264-C-01
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A

Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.03
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	153.21
Unique name or ID for unique physical volume [98.236(c)(7)(i)(C)]	264-C-02
Which equation was used to calculate natural gas venting emissions? (Select from list)	W-14A
Total number of blowdowns for each unique physical volume in the calendar year [98.236(c)(7)(i)(A)]	
Total CO2 Emissions (mt CO2) [98.236(c)(7)(i)(B)]	0.04
Total CH4 Emissions (mt CO2e) [98.236(c)(7)(i)(B)]	186.06

TransmissionTanksDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Did the facility have any vent stack emissions from compressor scrubber dump valve leakage that were quantified per 98.233 (k)?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	

CentrifugalCompressorsDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	388.9
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	389.0
Does the facility have any centrifugal compressors with wet or dry seals subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(13)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(13)(v)(B)]	

CentrifugalCompressorsModesRowDetails:

Compressor ID	264-C-01
Were BMM Used for This Compressor?	No
Seal Type (wet or dry)	Dry
Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	116395.2553345
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	0
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0

Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	
Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	208.7
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0
Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	208.7
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0
Compressor ID	264-C-02
Were Bamm Used for This Compressor?	No
Seal Type (wet or dry)	Dry
Annual throughput using an engineering calculation based on best available data (MMscf) [98.236(c)(13)(i)(C)]	94601.7081668
Number of wet seals connected to the degassing vent [98.236(c)(13)(i)(A)]	0
Type of meter used for making measurements [98.236(c)(13)(i)(D)]	Temporary
Fraction of vent gas recovered for fuel [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered for sales [98.236(c)(13)(i)(B)]	0
Fraction of vent gas recovered and flared [98.236(c)(13)(i)(B)]	0
Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CO2 emissions (mt CO2) [98.236(c)(13)(i)(G)]	
Not Measured - Seal vent CH4 emissions (mt CO2e) [98.236(c)(13)(i)(G)]	

Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	
Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	
Not Measured - Blowdown Vent CO2 emissions (mt CO2) [98.236(c)(13)(ii)(C)]	0.0
Not Measured - Blowdown Vent CH4 emissions (mt CO2e) [98.236(c)(13)(ii)(C)]	180.2
Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	
Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	
Not Measured - Isolation valve leakage CO2 emissions (mt CO2) [98.236(c)(13)(iii)(C)]	0.0
Not Measured - Isolation valve leakage CH4 emissions (mt CO2e) [98.236(c)(13)(iii)(C)]	0.0
Does this compressor route gas to a flare? [98.236(c)]	No
Total annual CO2 emissions from flaring for all modes of operation combined (mt CO2) [98.236(c)]	0
Total annual CH4 emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual N2O emissions from flaring for all modes of operation combined (mt CO2e) [98.236(c)]	0
Total annual CO2 emissions from all modes of operation combined (mt CO2) [98.236(c)(13)(iv)]	0.0
Total annual CH4 emissions from all modes of operation combined (mt CO2e) [98.236(c)(13)(iv)]	180.3
Total annual N2O emissions from all modes of operation combined (mt CO2e) [98.236(c)]	0.0

ReciprocatingCompressorsDetails:

mt CO2	0.0
mt CH4 (mt CO2e)	0.0
mt N2O (mt CO2e)	0.0
Total Emissions (mt CO2e)	0.0
Does the facility have any reciprocating compressors subject to reporting under 98.232?	No
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	
Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	
Total annual compressor emissions CO2 Emissions (mt CO2) [98.236(c)(14)(v)(B)]	
Total annual compressor emissions CH4 Emissions (mt CO2e) [98.236(c)(14)(v)(B)]	

OtherEmissionsFromEquipmentLeaksDetails:

mt CO2	0.1
mt CH4 (mt CO2e)	50.0
mt N2O (mt CO2e)	N/A
Total Emissions (mt CO2e)	50.0
Does the facility have any equipment leaks subject to reporting under 98.232?	Yes
Were BMM used for any parameters to calculate GHG emissions? [98.3(c)(7)]	No
Provide a brief description of the BMM used, parameter measured, and time period. [98.3(c)(7)]	

Were missing data procedures used for any parameters to calculate GHG emissions? [98.235]	No
-------------------------------------------------------------------------------------------	----

EstimatingEmissionsFoundInLeakSurveyRowDetails:

Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Connector
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-10-02
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	23.5
Component Type (Select from list) [98.236(c)(15)]	Non-compressor Components, Gas Service - Valve
Date of first complete survey [98.236(c)(15)(i)(A)]	2013-10-02
Total count of leaks found in the first survey [98.236(c)(15)(i)(A)]	1
Date of second complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the second survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of third complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the third survey (if applicable) [98.236(c)(15)(i)(A)]	
Date of fourth complete survey (if applicable) [98.236(c)(15)(i)(A)]	
Total count of leaks found in the fourth survey (if applicable) [98.236(c)(15)(i)(A)]	
Minimum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CO2 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Minimum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
Maximum concentration of CH4 (volumetric fraction) [98.236(c)(15)(i)(B)]	
CO2 Emissions (mt CO2) [98.236(c)(15)(i)(C)]	0.0
CH4 Emissions (mt CO2e) [98.236(c)(15)(i)(C)]	26.5



Massachusetts Greenhouse Gas Emissions Reporting Program

Total Facility Emissions Report

TENNESSEE GAS PIPELINE CO (WORCESTER) [Facility AQ ID: 1181412]

WORCESTER, United States

MA Facility AQ Id 1181412

3/25/2014 17:55:23

Facility Information

Facility Name TENNESSEE GAS PIPELINE CO (WORCESTER) [Facility ..
Facility Category Stationary source(e.g. power plants etc)
Facility Location Texas
Facility Address 85 UPLAND STREET,
WORCESTER, Massachusetts,
01607, United States

Facility Contact Zeilstra, Michael
Contact Email michael_zeilstra@kindermorgan.com
Contact Phone 7134207931
NAIC Code 486210 - Pipeline Transportation of Natural Gas
Facility Description

2013 Emissions Information

Report Status Saved as Draft
Reporting Protocol The Climate Registry's General Reporting Protocol and associated updates and clarifications

ASSOCIATED ENTITIES

Entity Name	Consolidation Methodology	Equity Share	Operational Control	Financial Control
TENNESSEE GAS PIPELINE CO	Operational Control Only	Not Applicable	Yes	Not Applicable

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

TENNESSEE GAS PIPELINE CO (WORCESTER) [Facility AQ ID: 1181412]

WORCESTER, United States

MA Facility AQ Id 1181412

3/25/2014 17:55:23

TOTAL EMISSIONS: TENNESSEE GAS PIPELINE CO (WORCESTER) [Facility AQ ID: 1181412]

DIRECT EMISSIONS (Scope 1) Metric Tons	CO2e	CO2	CH4	N2O	HFCs	PFCs	SF6
Fugitive - Scope 1	1716.2565	0.9051	81.6834	0	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0
Process - Scope 1	4677.2744	1.5026	222.6558	0	0	0	0
Stationary Combustion - Scope 1	0	0	0	0	0	0	0
TOTAL DIRECT EMISSIONS	6393.5309	2.4077	304.3392	0	0	0	0

BIOGENIC EMISSIONS Metric Tons	CO2
Mobile Biomass Combustion - Biomass	0
Stationary Biomass Combustion - Biomass	0
TOTAL BIOGENIC EMISSIONS	0

Total Facility Emissions	
CO2e in metric ton (t)	6393.5309
CO2e in short ton (ton)	7047.66142

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

TENNESSEE GAS PIPELINE CO (WORCESTER) [Facility AQ ID: 1181412]

WORCESTER, United States

MA Facility AQ Id 1181412

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DETAILED EMISSIONS

Emitting Activity Name	Emissions Category	Emitting Activity	Green House Gas	Amount (metric tons)	Total CO2e (metric tons)	Calculation Methodology	Factor Source	Fuel	Amount	Emission Factor	Heat Content	Oxidation Coefficient Perform	Efficiency Factor	Comment
M&R Fugitives	Fugitive - Scope 1	Unspecified Technology	CO2	0.5137	0.5137	PreCalculated		N/A	0	GL				Emissions (metric tons) = M&R Station Count * EF (lb/station) * (actual CO2 mol%/default CO2 mol%)*(1 metric ton/2204.6 lb)
M&R Fugitives	Fugitive - Scope 1	Unspecified Technology	CH4	77.4722	1626.9162	PreCalculated		N/A	0	GL				Emissions (metric tons) = M&R Station Count * EF (lb/station) * (actual CH4 mol%/default CH4 mol%)*1 metric ton/2204.6 lb)
Pipeline Blowdowns	Process - Scope 1	Unspecified Technology	CO2	1.5026	1.5026	PreCalculated		N/A	0	GL				
Pipeline Blowdowns	Process - Scope 1	Unspecified Technology	CH4	222.6558	4675.7718	PreCalculated		N/A	0	GL				
Pipeline Fugitives	Fugitive - Scope 1	Unspecified Technology	CO2	0.3914	0.3914	PreCalculated		N/A	0	GL				Emissions (metric tons) = EF (lb/mile)*pipeline length (mile) * (actual CO2 mol%/default CO2 mol%)*(1 metric ton/2204.6 lb)
Pipeline Fugitives	Fugitive - Scope 1	Unspecified Technology	CH4	4.2112	88.4352	PreCalculated		N/A	0	GL				Emissions (metric tons) = EF (lb/mile)*pipeline length (mile) * (actual CH4 mol%/default CH4 mol%)*(1 metric ton/2204.6 lb)

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

TENNESSEE GAS PIPELINE STATION 261 [Facility AQ ID: 0420005]

AGAWAM, United States

MA Facility AQ Id 0420005

3/24/2014 18:36:18

Facility Information

Facility Name TENNESSEE GAS PIPELINE STATION 261 [Facility AQ ID: ..
 Facility Category Stationary source(e.g. power plants etc)
 Facility Location Massachusetts
 Facility Address 1615 SUFFIELD ST,
 AGAWAM, Massachusetts,
 010010000, United States

Facility Contact Zeilstra, Michael
 Contact Email michael_zeilstra@kindermorgan.com
 Contact Phone 7134207931
 NAIC Code 486210 - Pipeline Transportation of Natural Gas
 Facility Description

2013 Emissions Information

Report Status Saved as Draft
 Reporting Protocol The Climate Registry's General Reporting Protocol and associated updates and clarifications

ASSOCIATED ENTITIES

Entity Name	Consolidation Methodology	Equity Share	Operational Control	Financial Control
TENNESSEE GAS PIPELINE CO	Operational Control Only	Not Applicable	Yes	Not Applicable

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

TENNESSEE GAS PIPELINE STATION 261 [Facility AQ ID: 0420005]

AGAWAM, United States

MA Facility AQ Id 0420005

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TOTAL EMISSIONS: TENNESSEE GAS PIPELINE STATION 261 [Facility AQ ID: 0420005]

DIRECT EMISSIONS (Scope 1) Metric Tons	CO2e	CO2	CH4	N2O	HFCs	PFCs	SF6
Fugitive - Scope 1	1879.7149	0.621	89.3129	0	0.00271	0	0
Mobile Combustion - Scope 1	86.56009	86.00999	0.00227	0.00163	0	0	0
Process - Scope 1	8042.40885	2.64094	382.84609	0	0	0	0
Stationary Combustion - Scope 1	36600.96152	36565.12547	0.68914	0.06891	0	0	0
TOTAL DIRECT EMISSIONS	46609.64536	36654.3974	472.8504	0.07054	0.00271	0	0

BIOGENIC EMISSIONS Metric Tons	CO2
Mobile Biomass Combustion - Biomass	0
Stationary Biomass Combustion - Biomass	0
TOTAL BIOGENIC EMISSIONS	0

Total Facility Emissions	
CO2e in metric ton (t)	46609.64536
CO2e in short ton (ton)	51378.33923

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

TENNESSEE GAS PIPELINE STATION 261 [Facility AQ ID: 0420005]

AGAWAM, United States

MA Facility AQ Id 0420005

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DETAILED EMISSIONS

Emitting Activity Name	Emissions Category	Emitting Activity	Green House Gas	Amount (metric tons)	Total CO2e (metric tons)	Calculation Methodology	Factor Source	Fuel	Amount	Emission Factor	Heat Content	Oxidation Coefficient	Efficiency Perform	Efficiency Factor	Comment
1 BOILER,15 SPACE HEATERS+4 WATER HEATERS 3MMB TL	Stationary Combustion - Scope 1	Boilers	CO2	701.85593	701.85593	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	13227.59 MMBtu	53.06 kg/MMBtu	1050 Btu/scf				
1 BOILER,15 SPACE HEATERS+4 WATER HEATERS 3MMB TL	Stationary Combustion - Scope 1	Boilers	CH4	0.01323	0.27778	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	13227.59 MMBtu	1 g/MMBtu	1050 Btu/scf				EPA MRR Factor
1 BOILER,15 SPACE HEATERS+4 WATER HEATERS 3MMB TL	Stationary Combustion - Scope 1	Boilers	N2O	0.00132	0.41006	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	13227.59 MMBtu	0.1 g/MMBtu	1050 Btu/scf				EPA MRR Factor
261-A-04 (Pressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.1775	0.1775	PreCalculated		N/A	0 GL						
261-A-04 (Pressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	25.5303	536.1363	PreCalculated		N/A	0 GL						
261-A-05 (Pressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.1362	0.1362	PreCalculated		N/A	0 GL						
261-A-05 (Pressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	19.5863	411.3123	PreCalculated		N/A	0 GL						
261-B-01 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.041	0.041	PreCalculated		N/A	0 GL						
261-B-01 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	5.8949	123.7929	PreCalculated		N/A	0 GL						
261-C-01 (Un-Pressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.0628	0.0628	PreCalculated		N/A	0 GL						
261-C-01 (Un-Pressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	9.0277	189.5817	PreCalculated		N/A	0 GL						
261-D-01 (Pressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.1292	0.1292	PreCalculated		N/A	0 GL						
261-D-01 (Pressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	18.5822	390.2262	PreCalculated		N/A	0 GL						

Massachusetts Greenhouse Gas Emissions Reporting Program

Total Facility Emissions Report

TENNESSEE GAS PIPELINE STATION 261 [Facility AQ ID: 0420005]

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Chevrolet #24466	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2005)	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl
Chevrolet #24466	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2005)	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0157 g/mi	
Chevrolet #24466	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2005)	N2O	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0101 g/mi	
Chevrolet #24594	Mobile Combustion - Scope 1	EPA Tier 2	CO2	20.08522	20.08522 Emission Factor	2014 Default Emission Factors - Table #13.1	All	2287.61 gal	8.78 kg/gal	5.25 MMBtu/bbl
Chevrolet #24594	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0.00045	0.00943 Emission Factor	2014 Default Emission Factors - Table #13.4	All	28252 mi	0.0159 g/mi	
Chevrolet #24594	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0.00025	0.07795 Emission Factor	2014 Default Emission Factors - Table #13.4	All	28252 mi	0.0089 g/mi	
Chevrolet #25503	Mobile Combustion - Scope 1	EPA Tier 2	CO2	7.96882	7.96882 Emission Factor	2014 Default Emission Factors - Table #13.1	All	907.61 gal	8.78 kg/gal	5.25 MMBtu/bbl
Chevrolet #25503	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0.00018	0.00384 Emission Factor	2014 Default Emission Factors - Table #13.4	All	11209 mi	0.0163 g/mi	
Chevrolet #25503	Mobile Combustion - Scope 1	EPA Tier 2	N2O	7e-005	0.02293 Emission Factor	2014 Default Emission Factors - Table #13.4	All	11209 mi	0.0066 g/mi	
Chevrolet #98820	Mobile Combustion - Scope 1	Cars (Model Year 2002)	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl
Chevrolet #98820	Mobile Combustion - Scope 1	Cars (Model Year 2002)	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0107 g/mi	
Chevrolet #98820	Mobile Combustion - Scope 1	Cars (Model Year 2002)	N2O	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0153 g/mi	
Compressor Station Fugitives	Fugitive - Scope 1	Unspecified Technology	CO2	0.0743	0.0743 PreCalculated		N/A	0 GL		
Compressor Station Fugitives	Fugitive - Scope 1	Unspecified Technology	CH4	10.6915	224.5215 PreCalculated		N/A	0 GL		
Dodge #21094N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2001)	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl

TCR Table 13.5
CH4 and N2O
Factors for
Highway
Vehicles by
Model Year.
TCR Table 13.5
CH4 and N2O
Factors for
Highway
Vehicles by
Model Year.

Massachusetts Greenhouse Gas Emissions Reporting Program

Total Facility Emissions Report

TENNESSEE GAS PIPELINE STATION 261 [Facility AQ ID: 0420005]

AGAWAM, United States

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Dodge #21094N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2001)	CH4	0	0	Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0151 g/mi	
Dodge #21094N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2001)	N2O	0	0	Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0164 g/mi	
Dodge #21102N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2001)	CO2	0	0	Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl
Dodge #21102N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2001)	CH4	0	0	Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0151 g/mi	
Dodge #21102N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2001)	N2O	0	0	Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0164 g/mi	
Dodge #22077N	Mobile Combustion - Scope 1	Cars (Model Year 2001)	CO2	0	0	Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl
Dodge #22077N	Mobile Combustion - Scope 1	Cars (Model Year 2001)	CH4	0	0	Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.011 g/mi	
Dodge #22077N	Mobile Combustion - Scope 1	Cars (Model Year 2001)	N2O	0	0	Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0158 g/mi	
Dodge #98825	Mobile Combustion - Scope 1	Model Year 2002	CO2	0	0	Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl
Dodge #98825	Mobile Combustion - Scope 1	Model Year 2002	CH4	0	0	Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0526 g/mi	
Dodge #98825	Mobile Combustion - Scope 1	Model Year 2002	N2O	0	0	Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.1307 g/mi	
Dodge #HOP001	Mobile Combustion - Scope 1	Cars (Model Year 1999)	CO2	4.98247	4.98247	Emission Factor	2014 Default Emission Factors - Table #13.1	All	567.48 gal	8.78 kg/gal	5.25 MMBtu/bbl
Dodge #HOP001	Mobile Combustion - Scope 1	Cars (Model Year 1999)	CH4	0.00025	0.0053	Emission Factor	2014 Default Emission Factors - Table #13.5	All	11690 mi	0.0216 g/mi	
Dodge #HOP001	Mobile Combustion - Scope 1	Cars (Model Year 1999)	N2O	0.00039	0.12213	Emission Factor	2014 Default Emission Factors - Table #13.5	All	11690 mi	0.0337 g/mi	
EMERGENCY GENERATOR OFFICE BLDG	Stationary Combustion - Scope 1	Unspecified Technology	CO2	0.59626	0.59626	Emission Factor	2014 Default Emission Factors - Table #12.1	Distillate Fuel Oil No. 2	58.4 gal	10.21 kg/gal	0.138 MMBtu/gal
EMERGENCY GENERATOR OFFICE BLDG	Stationary Combustion - Scope 1	Unspecified Technology	CH4	2e-005	0.00051	Emission Factor	2014 Default Emission Factors - Table #12.9	Distillate Fuel Oil No. 2	58.4 gal	0.003 kg/MMBtu	0.138 MMBtu/gal

Massachusetts Greenhouse Gas Emissions Reporting Program

Total Facility Emissions Report

TENNESSEE GAS PIPELINE STATION 261 [Facility AQ ID: 0420005]

AGAWAM, United States

MA Facility AQ Id 0420005

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EMERGENCY GENERATOR OFFICE BLDG	Stationary Combustion - Scope 1	Unspecified Technology	N2O	0	0.0015 Emission Factor	2014 Default Emission Factors - Table #12.9	Distillate Fuel Oil No. 2	58.4 gal	0.0006 kg/MMBtu	0.138 MMBtu/gal	
EU#4 - SOLAR CENTAUR 50 GAS TURBINE	Stationary Combustion - Scope 1	Turbines >3MW	CO2	14726.05804	14726.05804 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	277535.96 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
EU#4 - SOLAR CENTAUR 50 GAS TURBINE	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.27754	5.82826 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	277535.96 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
EU#4 - SOLAR CENTAUR 50 GAS TURBINE	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.02775	8.60361 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	277535.96 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
Ford # 24230	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	CO2	7.85652	7.85652 Emission Factor	2014 Default Emission Factors - Table #13.1	All	894.82 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford # 24230	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	CH4	0.00017	0.00353 Emission Factor	2014 Default Emission Factors - Table #13.5	All	11051 mi	0.0152 g/mi		
Ford # 24230	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	N2O	0.00015	0.04522 Emission Factor	2014 Default Emission Factors - Table #13.5	All	11051 mi	0.0132 g/mi		
Ford #130286	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2011)	CO2	7.12918	7.12918 Emission Factor	2014 Default Emission Factors - Table #13.1	All	811.98 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford #130286	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2011)	CH4	0.00016	0.00343 Emission Factor	2014 Default Emission Factors - Table #13.5	All	10028 mi	0.0163 g/mi		
Ford #130286	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2011)	N2O	7e-005	0.02052 Emission Factor	2014 Default Emission Factors - Table #13.5	All	10028 mi	0.0066 g/mi		
Ford #130304	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2011)	CO2	8.8376	8.8376 Emission Factor	2014 Default Emission Factors - Table #13.1	All	1006.56 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford #130304	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2011)	CH4	0.0002	0.00426 Emission Factor	2014 Default Emission Factors - Table #13.5	All	12431 mi	0.0163 g/mi		
Ford #130304	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2011)	N2O	8e-005	0.02543 Emission Factor	2014 Default Emission Factors - Table #13.5	All	12431 mi	0.0066 g/mi		
Ford #130305	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2011)	CO2	7.00315	7.00315 Formula	2014 Default Emission Factors - Table #13.1	All	797.89 gal		5.25 MMBtu/bbl	1
Ford #130305	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2011)	CH4	0.00016	0.00337 Emission Factor	2014 Default Emission Factors - Table #13.5	All	9854 mi	0.0163 g/mi		
Ford #130305	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2011)	N2O	7e-005	0.02016 Emission Factor	2014 Default Emission Factors - Table #13.5	All	9854 mi	0.0066 g/mi		

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Ford #24467	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2005)	CO2	14.54565	14.54565 Emission Factor	2014 Default Emission Factors - Table #13.1	All	1656.68 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford #24467	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2005)	CH4	0.00032	0.00675 Emission Factor	2014 Default Emission Factors - Table #13.5	All	20460 mi	0.0157 g/mi		
Ford #24467	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2005)	N2O	0.00021	0.06406 Emission Factor	2014 Default Emission Factors - Table #13.5	All	20460 mi	0.0101 g/mi		
Ford #24568	Mobile Combustion - Scope 1	Cars (Model Year 2010)	CO2	5.3328	5.3328 Emission Factor	2014 Default Emission Factors - Table #13.1	All	607.38 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford #24568	Mobile Combustion - Scope 1	Cars (Model Year 2010)	CH4	0.00022	0.00455 Emission Factor	2014 Default Emission Factors - Table #13.5	All	12512 mi	0.0173 g/mi		
Ford #24568	Mobile Combustion - Scope 1	Cars (Model Year 2010)	N2O	5e-005	0.01396 Emission Factor	2014 Default Emission Factors - Table #13.5	All	12512 mi	0.0036 g/mi		
Ford #25369	Mobile Combustion - Scope 1	EPA Tier 2	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford #25369	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.4	All	0 mi	0.0163 g/mi		
Ford #25369	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0	0 Emission Factor	2014 Default Emission Factors - Table #13.4	All	0 mi	0.0066 g/mi		
GENERATOR #A11-WAUKESHA C10263 150KW NATURAL GAS	Stationary Combustion - Scope 1	Reciprocating Engines (4-Stroke Rich Burn)	CO2	5.202	5.202 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	98.04 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
GENERATOR #A11-WAUKESHA C10263 150KW NATURAL GAS	Stationary Combustion - Scope 1	Reciprocating Engines (4-Stroke Rich Burn)	CH4	0.0001	0.00206 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	98.04 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
GENERATOR #A11-WAUKESHA C10263 150KW NATURAL GAS	Stationary Combustion - Scope 1	Reciprocating Engines (4-Stroke Rich Burn)	N2O	1e-005	0.00304 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	98.04 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
GMC #L0077	Mobile Combustion - Scope 1	Model Years 1990-1995	CO2	2.26858	2.26858 Emission Factor	2014 Default Emission Factors - Table #13.1	All	258.38 gal	8.78 kg/gal	5.25 MMBtu/bbl	
GMC #L0077	Mobile Combustion - Scope 1	Model Years 1990-1995	CH4	0.00016	0.00346 Emission Factor	2014 Default Emission Factors - Table #13.5	All	3191 mi	0.0517 g/mi		TCR Table 13.5 CH4 and N2O Factors for Highway Vehicles by Model Year.
GMC #L0077	Mobile Combustion - Scope 1	Model Years 1990-1995	N2O	0.00029	0.08982 Emission Factor	2014 Default Emission Factors - Table #13.5	All	3191 mi	0.0908 g/mi		TCR Table 13.5 CH4 and N2O Factors for Highway

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Pneumatic	Process - Scope 1	Unspecified Technology	CO2	0.10754	0.10754 PreCalculated		N/A	0 GL				Vehicles by Model Year. Emissions from pneumatic devices are calculated using Equation W-1 of 40 CFR Part 98 Subpart W. Emissions from pneumatic devices are calculated using Equation W-1 of 40 CFR Part 98 Subpart W. Emissions from refrigerants are calculated using Equation 16e of General Reporting Protocol for the Voluntary Reporting Program, The Climate Registry. startup gas = meter 040290 - (261-B-01 fuel + 261-C-01 fuel + 261-D-01 fuel) startup gas = meter 040290 - (261-B-01 fuel + 261-C-01 fuel + 261-D-01 fuel)
Pneumatic	Process - Scope 1	Unspecified Technology	CH4	18.41529	386.72111 PreCalculated		N/A	0 GL				
Refrigerants	Fugitive - Scope 1	Unspecified Technology	HFC-13 ..	0.00271	3.523 PreCalculated		N/A	0 GL				
Start-Up Gas	Process - Scope 1	Unspecified Technology	CO2	2.0883	2.0883 PreCalculated		N/A	0 GL				
Start-Up Gas	Process - Scope 1	Unspecified Technology	CH4	300.405	6308.505 PreCalculated		N/A	0 GL				
Station Blowdown	Process - Scope 1	Unspecified Technology	CO2	0.4451	0.4451 PreCalculated		N/A	0 GL				
Station Blowdown	Process - Scope 1	Unspecified Technology	CH4	64.0258	1344.5418 PreCalculated		N/A	0 GL				
Toyota #24255N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal		5.25 MMBtu/bbl	
Toyota #24255N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0152 g/mi			
Toyota #24255N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	N2O	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0132 g/mi			
Toyota #24258	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal		5.25 MMBtu/bbl	
Toyota #24258	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0152 g/mi			

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Toyota #24258	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	N2O	0	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0132 g/mi		
TURBINE #13-SOLAR CENTAUR H (D1) (EU#1)	Stationary Combustion - Scope 1	Turbines >3MW	CO2	11597.71154	11597.71154	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	218577.3 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
TURBINE #13-SOLAR CENTAUR H (D1) (EU#1)	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.21858	4.59012	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	218577.3 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
TURBINE #13-SOLAR CENTAUR H (D1) (EU#1)	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.02186	6.7759	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	218577.3 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
TURBINE #1B-SOLAR SATURN T-1001 (EU#2)	Stationary Combustion - Scope 1	Turbines >3MW	CO2	503.22953	503.22953	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	9484.16 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
TURBINE #1B-SOLAR SATURN T-1001 (EU#2)	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.00948	0.19917	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	9484.16 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
TURBINE #1B-SOLAR SATURN T-1001 (EU#2)	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.00095	0.29401	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	9484.16 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
TURBINE #1C-SOLAR CENTAUR T-4500 (EU#3)	Stationary Combustion - Scope 1	Turbines >3MW	CO2	9030.44058	9030.44058	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	170193 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
TURBINE #1C-SOLAR CENTAUR T-4500 (EU#3)	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.17019	3.57405	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	170193 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
TURBINE #1C-SOLAR CENTAUR T-4500 (EU#3)	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.01702	5.27598	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	170193 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
Welding/Cutting ..	Stationary Combustion - Scope 1	Unspecified Technology	CO2	0.03159	0.03159	Emission Factor	2014 Default Emission Factors - Table #12.1	Acetylene	300 scf	0.1053 kg/scf	0.00147 MMBtu/scf	

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EL PASO CHARLTON STATION [Facility AQ ID: 1180591]

CHARLTON, United States

MA Facility AQ Id 1180591

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Facility Information

Facility Name EL PASO CHARLTON STATION [Facility AQ ID: 1180591]
 Facility Category Stationary source(e.g. power plants etc)
 Facility Location Massachusetts
 Facility Address 196 CARPENTER HILL RD,
 CHARLTON, Massachusetts,
 015070000, United States

 Facility Contact Zeilstra, Michael
 Contact Email michael_zeilstra@kindermorgan.com
 Contact Phone 7134207931
 NAIC Code 486210 - Pipeline Transportation of Natural Gas
 Facility Description

2013 Emissions Information

Report Status Saved as Draft
 Reporting Protocol The Climate Registry's General Reporting Protocol and associated updates and clarifications

ASSOCIATED ENTITIES

Entity Name	Consolidation Methodology	Equity Share	Operational Control	Financial Control
TENNESSEE GAS PIPELINE CO	Operational Control Only	Not Applicable	Yes	Not Applicable

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Total Facility Emissions Report

EL PASO CHARLTON STATION [Facility AQ ID: 1180591]

CHARLTON, United States

MA Facility AQ Id 1180591

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TOTAL EMISSIONS: EL PASO CHARLTON STATION [Facility AQ ID: 1180591]

DIRECT EMISSIONS (Scope 1) Metric Tons	CO2e	CO2	CH4	N2O	HFCs	PFCs	SF6
Fugitive - Scope 1	1295.4871	0.4174	61.6698	0	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0
Process - Scope 1	7199.5887	2.3175	342.7272	0	0	0	0
Stationary Combustion - Scope 1	33829.66824	33796.54684	0.63695	0.06368	0	0	0
TOTAL DIRECT EMISSIONS	42324.74404	33799.28174	405.03395	0.06368	0	0	0

BIOGENIC EMISSIONS Metric Tons	CO2
Mobile Biomass Combustion - Biomass	0
Stationary Biomass Combustion - Biomass	0
TOTAL BIOGENIC EMISSIONS	0

Total Facility Emissions	
CO2e in metric ton (t)	42324.74404
CO2e in short ton (ton)	46655.04405

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DETAILED EMISSIONS

Emitting Activity Name	Emissions Category	Emitting Activity	Green House Gas	Amount (metric tons)	Total CO2e (metric tons)	Calculation Methodology	Factor Source	Fuel	Amount	Emission Factor	Heat Content	Oxidation Coefficient	Perform	Efficiency Factor	Comment
264-C-01 (Pressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.182	0.182	PreCalculated		N/A	0 GL						
264-C-01 (Pressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	26.8862	564.6102	PreCalculated		N/A	0 GL						
264-C-02 (Pressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.1743	0.1743	PreCalculated		N/A	0 GL						
264-C-02 (Pressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	25.7578	540.9138	PreCalculated		N/A	0 GL						
BOILER #2S-H.B.SMITH #G300S/W7 NATURAL GAS	Stationary Combustion - Scope 1	Boilers	CO2	28.61685	28.61685	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	539.33 MMBtu	53.06 kg/MMBtu	1050 Btu/scf				EPA MRR Factor
BOILER #2S-H.B.SMITH #G300S/W7 NATURAL GAS	Stationary Combustion - Scope 1	Boilers	CH4	0.00054	0.01133	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	539.33 MMBtu	1 g/MMBtu	1050 Btu/scf				EPA MRR Factor
BOILER #2S-H.B.SMITH #G300S/W7 NATURAL GAS	Stationary Combustion - Scope 1	Boilers	N2O	5e-005	0.01672	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	539.33 MMBtu	0.1 g/MMBtu	1050 Btu/scf				EPA MRR Factor
Compressor Station Fugitives	Fugitive - Scope 1	Unspecified Technology	CO2	0.0611	0.0611	PreCalculated		N/A	0 GL						
Compressor Station Fugitives	Fugitive - Scope 1	Unspecified Technology	CH4	9.0258	189.5418	PreCalculated		N/A	0 GL						
GENERATOR A11-WAUKESHA PEARCE #F18G 150KW	Stationary Combustion - Scope 1	Reciprocating Engines (4-Stroke Rich Burn)	CO2	1.96216	1.96216	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	36.98 MMBtu	53.06 kg/MMBtu	1050 Btu/scf				
GENERATOR A11-WAUKESHA PEARCE #F18G 150KW	Stationary Combustion - Scope 1	Reciprocating Engines (4-Stroke Rich Burn)	CH4	4e-005	0.00078	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	36.98 MMBtu	1 g/MMBtu	1050 Btu/scf				EPA MRR Factor
GENERATOR A11-WAUKESHA PEARCE #F18G 150KW	Stationary Combustion - Scope 1	Reciprocating Engines (4-Stroke Rich Burn)	N2O	0	0.00115	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	36.98 MMBtu	0.1 g/MMBtu	1050 Btu/scf				EPA MRR Factor
Pneumatic	Process - Scope 1	Unspecified Technology	CO2	0.0106	0.0106	PreCalculated		N/A	0 GL						Emissions from pneumatics calculated using Equation W01 of 40 CFR Part 98 Subpart W.
Pneumatic	Process - Scope 1	Unspecified Technology	CH4	1.8569	38.9949	PreCalculated		N/A	0 GL						Emissions from pneumatics calculated using

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Refrigerants	Fugitive - Scope 1	Unspecified Technology	HFC-13 ..	0	0.0039 PreCalculated	N/A	0 GL	Equation W01 of 40 CFR Part 98 Subpart W. Emissions from refrigerants are calculated using Equation 16e of General Reporting Protocol for the Voluntary Reporting Program.			
SOLAR CENTAUR 50 EU #4	Stationary Combustion - Scope 1	Turbines >3MW	CO2	18073.28712	18073.28712 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	340619.81 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
SOLAR CENTAUR 50 EU #4	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.34062	7.15302 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	340619.81 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
SOLAR CENTAUR 50 EU #4	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.03406	10.55921 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	340619.81 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
SOLAR CENTAUR 50 EU #5	Stationary Combustion - Scope 1	Turbines >3MW	CO2	15681.016	15681.016 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	295533.66 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
SOLAR CENTAUR 50 EU #5	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.29553	6.20621 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	295533.66 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
SOLAR CENTAUR 50 EU #5	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.02955	9.16154 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	295533.66 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
SPACE HEATERS #1(3)-VARIOUS MFG NATURAL GAS	Stationary Combustion - Scope 1	Boilers	CO2	11.66471	11.66471 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	219.84 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
SPACE HEATERS #1(3)-VARIOUS MFG NATURAL GAS	Stationary Combustion - Scope 1	Boilers	CH4	0.00022	0.00462 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	219.84 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
SPACE HEATERS #1(3)-VARIOUS MFG NATURAL GAS	Stationary Combustion - Scope 1	Boilers	N2O	2e-005	0.00682 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	219.84 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
Start-Up Gas	Process - Scope 1	Unspecified Technology	CO2	1.4974	1.4974 PreCalculated		N/A	0 GL			Startup gas = meter 40339 - (264-C-01 fuel + 264-C-02 fuel)
Start-Up Gas	Process - Scope 1	Unspecified Technology	CH4	221.2564	4646.3844 PreCalculated		N/A	0 GL			Startup gas = meter 40339 - (264-C-01 fuel + 264-C-02 fuel)
Station Blowdowns	Process - Scope 1	Unspecified Technology	CO2	0.8095	0.8095 PreCalculated		N/A	0 GL			From 2013 station record of blowdown volumes.
Station Blowdowns	Process - Scope 1	Unspecified Technology	CH4	119.6139	2511.8919 PreCalculated		N/A	0 GL			From 2013 station record of

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EL PASO CHARLTON STATION [Facility AQ ID: 1180591]

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blowdown
volumes.

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

EL PASO ENERGY MENDON [Facility AQ ID: 1180060]

MENDON, United States

MA Facility AQ Id 1180060

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Facility Information

Facility Name EL PASO ENERGY MENDON [Facility AQ ID: 1180060]
 Facility Category Stationary source(e.g. power plants etc)
 Facility Location Massachusetts
 Facility Address 54 THAYER RD,
 MENDON, Massachusetts,
 017560000, United States

Facility Contact Zeilstra, Michael
 Contact Email michael_zeilstra@kindermorgan.com
 Contact Phone 7134207931
 NAIC Code 486210 - Pipeline Transportation of Natural Gas
 Facility Description

2013 Emissions Information

Report Status Saved as Draft
 Reporting Protocol The Climate Registry's General Reporting Protocol and associated updates and clarifications

ASSOCIATED ENTITIES

Entity Name	Consolidation Methodology	Equity Share	Operational Control	Financial Control
TENNESSEE GAS PIPELINE CO	Operational Control Only	Not Applicable	Yes	Not Applicable

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

EL PASO ENERGY MENDON [Facility AQ ID: 1180060]

MENDON, United States

MA Facility AQ Id 1180060

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TOTAL EMISSIONS: EL PASO ENERGY MENDON [Facility AQ ID: 1180060]

DIRECT EMISSIONS (Scope 1) Metric Tons	CO2e	CO2	CH4	N2O	HFCs	PFCs	SF6
Fugitive - Scope 1	2423.0029	0.7621	115.3448	0	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0
Process - Scope 1	882.59341	0.26997	42.0154	0	0	0	0
Stationary Combustion - Scope 1	17414.70991	17397.6598	0.32788	0.03279	0	0	0
TOTAL DIRECT EMISSIONS	20720.30622	17398.69187	157.68808	0.03279	0	0	0

BIOGENIC EMISSIONS Metric Tons	CO2
Mobile Biomass Combustion - Biomass	0
Stationary Biomass Combustion - Biomass	0
TOTAL BIOGENIC EMISSIONS	0

Total Facility Emissions	
CO2e in metric ton (t)	20720.30622
CO2e in short ton (ton)	22840.22789

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

EL PASO ENERGY MENDON [Facility AQ ID: 1180060]

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DETAILED EMISSIONS

Emitting Activity Name	Emissions Category	Emitting Activity	Green House Gas	Amount (metric tons)	Total CO2e (metric tons)	Calculation Methodology	Factor Source	Fuel	Amount	Emission Factor	Heat Content	Oxidation Coefficient	Efficiency Perform	Efficiency Factor	Comment
266A-A-01 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.2938	0.2938	PreCalculated		N/A	0 GL						
266A-A-01 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	44.4675	933.8175	PreCalculated		N/A	0 GL						
266A-A-02 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.1912	0.1912	PreCalculated		N/A	0 GL						
266A-A-02 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	28.9361	607.6581	PreCalculated		N/A	0 GL						
266A-B-01 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.2406	0.2406	PreCalculated		N/A	0 GL						
266A-B-01 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	36.4157	764.7297	PreCalculated		N/A	0 GL						
266A-BOILER-01	Stationary Combustion - Scope 1	Boilers	CO2	6.44042	6.44042	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	121.38 MMBtu	53.06 kg/MMBtu	1050 Btu/scf				EPA MRR Factor
266A-BOILER-01	Stationary Combustion - Scope 1	Boilers	CH4	0.00012	0.00255	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	121.38 MMBtu	1 g/MMBtu	1050 Btu/scf				EPA MRR Factor
266A-BOILER-01	Stationary Combustion - Scope 1	Boilers	N2O	1e-005	0.00376	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	121.38 MMBtu	0.1 g/MMBtu	1050 Btu/scf				EPA MRR Factor
266A-BOILER-02	Stationary Combustion - Scope 1	Boilers	CO2	15.33699	15.33699	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	289.05 MMBtu	53.06 kg/MMBtu	1050 Btu/scf				
266A-BOILER-02	Stationary Combustion - Scope 1	Boilers	CH4	0.00029	0.00607	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	289.05 MMBtu	1 g/MMBtu	1050 Btu/scf				EPA MRR Factor
266A-BOILER-02	Stationary Combustion - Scope 1	Boilers	N2O	3e-005	0.00896	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	289.05 MMBtu	0.1 g/MMBtu	1050 Btu/scf				EPA MRR Factor
266A-HEATER- .	Stationary Combustion - Scope 1	Unspecified Technology	CO2	1.03679	1.03679	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	19.54 MMBtu	53.06 kg/MMBtu	1050 Btu/scf				
266A-HEATER- .	Stationary Combustion - Scope 1	Unspecified Technology	CH4	2e-005	0.00041	Emission Factor	2014 Default Emission Factors - Table #12.9	1,025 - 1,050 Btu / SCF	19.54 MMBtu	0.001 kg/MMBtu	1050 Btu/scf				

Massachusetts Greenhouse Gas Emissions Reporting Program

Total Facility Emissions Report

EL PASO ENERGY MENDON [Facility AQ ID: 1180060]

MENDON, United States

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Facility	Activity	Scope	Technology	Gas	Quantity	Calculation	2014 Default Emission Factors - Table #	Unit	MMBtu	kg/MMBtu	Btu/scf	Notes
266A-HEATER	Stationary Combustion	Scope 1	Unspecified Technology	N2O	0	0.00061 Emission Factor	2014 Default Emission Factors - Table #12.9	1,025 - 1,050 Btu / SCF	19.54	0.0001	1050	
Compressor Station	Fugitive	Scope 1	Unspecified Technology	CO2	0.0365	0.0365 PreCalculated		N/A	0			Emissions from leakers are calculated using Equation W-30A of 40 CFR Part 98 Subpart W
Compressor Station	Fugitive	Scope 1	Unspecified Technology	CH4	5.5255	116.0355 PreCalculated		N/A	0			Emissions from leakers are calculated using Equation W-30A of 40 CFR Part 98 Subpart W
GENERATOR #3A-WAUKESHA NATURAL GAS	Stationary Combustion	Scope 1	Reciprocating Engines (4-Stroke Rich Burn)	CO2	12.38527	12.38527 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	233.42	53.06	1050	
GENERATOR #3A-WAUKESHA NATURAL GAS	Stationary Combustion	Scope 1	Reciprocating Engines (4-Stroke Rich Burn)	CH4	0.00023	0.0049 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	233.42	1 g/MMBtu	1050	EPA MRR Factor
GENERATOR #3A-WAUKESHA NATURAL GAS	Stationary Combustion	Scope 1	Reciprocating Engines (4-Stroke Rich Burn)	N2O	2e-005	0.00724 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	233.42	0.1 g/MMBtu	1050	EPA MRR Factor
Pneumatic	Process	Scope 1	Unspecified Technology	CO2	0.04057	0.04057 PreCalculated		N/A	0			Emissions from pneumatic devices are calculated using Equation W-1 of 40 CFR Part 98 Subpart W
Pneumatic	Process	Scope 1	Unspecified Technology	CH4	7.3081	153.47014 PreCalculated		N/A	0			Emissions from pneumatic devices are calculated using Equation W-1 of 40 CFR Part 98 Subpart W
Start-Up Gas	Process	Scope 1	Unspecified Technology	CO2	0.135	0.135 PreCalculated		N/A	0			startup gas = (meter 40299 - (266A-A-01 fuel + 266A-A-02 fuel))+(meter 40388-(266A-B-01 fuel))
Start-Up Gas	Process	Scope 1	Unspecified Technology	CH4	20.4275	428.9775 PreCalculated		N/A	0			startup gas = (meter 40299 - (266A-A-01 fuel + 266A-A-02 fuel))+(meter 40388-(266A-B-01 fuel))
Station Blowdowns	Process	Scope 1	Unspecified Technology	CO2	0.0944	0.0944 PreCalculated		N/A	0			
Station Blowdowns	Process	Scope 1	Unspecified Technology	CH4	14.2798	299.8758 PreCalculated		N/A	0			
TURBINE #3-SOLAR TAURUS 60	Stationary Combustion	Scope 1	Turbines >3MW	CO2	15046.2173	15046.2173 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	283569.87	53.06	1050	

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Total Facility Emissions Report

EL PASO ENERGY MENDON [Facility AQ ID: 1180060]

MENDON, United States

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266B1C NAT GAS TURBINE #3-SOLAR TAURUS 60 266B1C NAT GAS	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.28357	5.95497 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	283569.87 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
266B1C NAT GAS TURBINE #3-SOLAR TAURUS 60 266B1C NAT GAS	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.02836	8.79067 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	283569.87 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
266B1C NAT GAS TURBINE COMPRESSOR #1A-SOLAR SATURN T1300 1000HP	Stationary Combustion - Scope 1	Turbines >3MW	CO2	1234.29286	1234.29286 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	23262.21 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
266B1C NAT GAS TURBINE COMPRESSOR #1A-SOLAR SATURN T1300 1000HP	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.02326	0.48851 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	23262.21 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
266B1C NAT GAS TURBINE COMPRESSOR #1A-SOLAR SATURN T1300 1000HP	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.00233	0.72113 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	23262.21 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
266B1C NAT GAS TURBINE COMPRESSOR #2-SOLAR SATURN T1300 1000HP	Stationary Combustion - Scope 1	Turbines >3MW	CO2	1081.95017	1081.95017 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	20391.07 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
266B1C NAT GAS TURBINE COMPRESSOR #2-SOLAR SATURN T1300 1000HP	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.02039	0.42821 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	20391.07 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
266B1C NAT GAS TURBINE COMPRESSOR #2-SOLAR SATURN T1300 1000HP	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.00204	0.63212 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	20391.07 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

EL PASO ENERGY-STATI [Facility AQ ID: 1190945]

HOPKINTON, United States

MA Facility AQ Id 1190945

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Facility Information

Facility Name EL PASO ENERGY-STATI [Facility AQ ID: 1190945]
 Facility Category Stationary source(e.g. power plants etc)
 Facility Location Massachusetts
 Facility Address 54 WILSON ST,
 HOPKINTON, Massachusetts,
 017480000, United States

Facility Contact Zeilstra, Michael
 Contact Email michael_zeilstra@kindermorgan.com
 Contact Phone 7134207931
 NAIC Code 486210 - Pipeline Transportation of Natural Gas
 Facility Description

2013 Emissions Information

Report Status Saved as Draft
 Reporting Protocol The Climate Registry's General Reporting Protocol and associated updates and clarifications

ASSOCIATED ENTITIES

Entity Name	Consolidation Methodology	Equity Share	Operational Control	Financial Control
TENNESSEE GAS PIPELINE CO	Operational Control Only	Not Applicable	Yes	Not Applicable

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

EL PASO ENERGY-STATI [Facility AQ ID: 1190945]

HOPKINTON, United States

MA Facility AQ Id 1190945

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TOTAL EMISSIONS: EL PASO ENERGY-STATI [Facility AQ ID: 1190945]

DIRECT EMISSIONS (Scope 1) Metric Tons	CO2e	CO2	CH4	N2O	HFCs	PFCs	SF6
Fugitive - Scope 1	3610.3908	1.1447	171.7011	0	0.00271	0	0
Mobile Combustion - Scope 1	97.89798	97.3916	0.00268	0.00144	0	0	0
Process - Scope 1	1977.95	0.6089	94.1591	0	0	0	0
Stationary Combustion - Scope 1	6949.20565	6942.40196	0.13085	0.01308	0	0	0
TOTAL DIRECT EMISSIONS	12635.44443	7041.54716	265.99373	0.01452	0.00271	0	0

BIOGENIC EMISSIONS Metric Tons	CO2
Mobile Biomass Combustion - Biomass	0
Stationary Biomass Combustion - Biomass	0
TOTAL BIOGENIC EMISSIONS	0

Total Facility Emissions	
CO2e in metric ton (t)	12635.44443
CO2e in short ton (ton)	13928.1933

Massachusetts Greenhouse Gas Emissions Reporting Program



Total Facility Emissions Report

EL PASO ENERGY-STATI [Facility AQ ID: 1190945]

HOPKINTON, United States

MA Facility AQ Id 1190945

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DETAILED EMISSIONS

Emitting Activity Name	Emissions Category	Emitting Activity	Green House Gas	Amount (metric tons)	Total CO2e (metric tons)	Calculation Methodology	Factor Source	Fuel	Amount	Emission Factor	Heat Content	Oxidation Coefficient	Efficiency Perform Factor	Comment
24464N	Mobile Combustion - Scope 1	EPA Tier 2	CO2	0	0	Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl			
24464N	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0	0	Emission Factor	2014 Default Emission Factors - Table #13.4	All	0 mi	0.0157 g/mi				TCR Table 13.5 CH4 and N2O emission factors for highway vehicles by model year TCR Table 13.5 CH4 and N2O emission factors for highway vehicles by model year
24464N	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0	0	Emission Factor	2014 Default Emission Factors - Table #13.4	All	0 mi	0.0101 g/mi				
267-A-01 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.1984	0.1984	PreCalculated		N/A	0 GL					
267-A-01 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	29.7576	624.9096	PreCalculated		N/A	0 GL					
267-A-02 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.1984	0.1984	PreCalculated		N/A	0 GL					
267-A-02 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	29.7565	624.8865	PreCalculated		N/A	0 GL					
267-A-03 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.1984	0.1984	PreCalculated		N/A	0 GL					
267-A-03 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	29.7575	624.9075	PreCalculated		N/A	0 GL					
267-B-01 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.1984	0.1984	PreCalculated		N/A	0 GL					
267-B-01 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	29.7581	624.9201	PreCalculated		N/A	0 GL					
267-B-02 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CO2	0.1984	0.1984	PreCalculated		N/A	0 GL					
267-B-02 (Unpressurized)	Fugitive - Scope 1	Unspecified Technology	CH4	29.7592	624.9432	PreCalculated		N/A	0 GL					
267-BOILER-01	Stationary Combustion - Scope 1	Boilers	CO2	91.89833	91.89833	Emission Factor	2014 Default Emission	1,025 -	1731.97	53.06	1050			

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						Factors - Table #12.1	1,050 Btu / SCF	MMBtu	kg/MMBtu	Btu/scf	
267-BOILER-01	Stationary Combustion - Scope 1	Boilers	CH4	0.00173	0.03637 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	1731.97 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
267-BOILER-01	Stationary Combustion - Scope 1	Boilers	N2O	0.00017	0.05369 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	1731.97 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
267-HEATER-30	Stationary Combustion - Scope 1	Boilers	CO2	282.62993	282.62993 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	5326.61 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
267-HEATER-30	Stationary Combustion - Scope 1	Boilers	CH4	0.00533	0.11186 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	5326.61 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
267-HEATER-30	Stationary Combustion - Scope 1	Boilers	N2O	0.00053	0.16512 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	5326.61 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
Compressor Station Fugitives	Fugitive - Scope 1	Unspecified Technology	CO2	0.1527	0.1527 PreCalculated		N/A	0 GL			Emissions from leakers are calculated using Equation W-30A of 40 CFR Part 98 Subpart W. Emissions from leakers are calculated using Equation W-30A of 40 CFR Part 98 Subpart W.
Compressor Station Fugitives	Fugitive - Scope 1	Unspecified Technology	CH4	22.9122	481.1562 PreCalculated		N/A	0 GL			
Dodge #22008N	Mobile Combustion - Scope 1	Cars (Model Year 2001)	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Dodge #22008N	Mobile Combustion - Scope 1	Cars (Model Year 2001)	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.011 g/mi		
Dodge #22008N	Mobile Combustion - Scope 1	Cars (Model Year 2001)	N2O	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0158 g/mi		
Dodge #22088	Mobile Combustion - Scope 1	Cars (Model Year 2001)	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Dodge #22088	Mobile Combustion - Scope 1	Cars (Model Year 2001)	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.011 g/mi		
Dodge #22088	Mobile Combustion - Scope 1	Cars (Model Year 2001)	N2O	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0158 g/mi		
Dodge #98824	Mobile Combustion - Scope 1	Cars (Model Year 2002)	CO2	2.69326	2.69326 Emission Factor	2014 Default Emission Factors - Table #13.1	All	306.75 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Dodge #98824	Mobile Combustion - Scope 1	Cars (Model Year 2002)	CH4	7e-005	0.00142 Emission Factor	2014 Default Emission Factors - Table #13.5	All	6319 mi	0.0107 g/mi		

Massachusetts Greenhouse Gas Emissions Reporting Program

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Dodge #98824	Mobile Combustion - Scope 1	Cars (Model Year 2002)	N2O	0.0001	0.02997 Emission Factor	2014 Default Emission Factors - Table #13.5	All	6319 mi	0.0153 g/mi	
Ford #22082N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2001)	CO2	7.70717	7.70717 Emission Factor	2014 Default Emission Factors - Table #13.1	All	877.81 gal	8.78 kg/gal	5.25 MMBtu/bbl
Ford #22082N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2001)	CH4	0.00016	0.00344 Emission Factor	2014 Default Emission Factors - Table #13.5	All	10841 mi	0.0151 g/mi	
Ford #22082N	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2001)	N2O	0.00018	0.05512 Emission Factor	2014 Default Emission Factors - Table #13.5	All	10841 mi	0.0164 g/mi	
Ford #24235	Mobile Combustion - Scope 1	Model Year 2004	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl
Ford #24235	Mobile Combustion - Scope 1	Model Year 2004	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0341 g/mi	
Ford #24235	Mobile Combustion - Scope 1	Model Year 2004	N2O	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0285 g/mi	
Ford #24296	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl
Ford #24296	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0152 g/mi	
Ford #24296	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	N2O	0	0 Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0132 g/mi	
Ford #24474	Mobile Combustion - Scope 1	Model Year 2005	CO2	16.93118	16.93118 Emission Factor	2014 Default Emission Factors - Table #13.1	All	1928.38 gal	8.78 kg/gal	5.25 MMBtu/bbl
Ford #24474	Mobile Combustion - Scope 1	Model Year 2005	CH4	0.0005	0.01056 Emission Factor	2014 Default Emission Factors - Table #13.5	All	15427 mi	0.0326 g/mi	
Ford #24474	Mobile Combustion - Scope 1	Model Year 2005	N2O	0.00027	0.08465 Emission Factor	2014 Default Emission Factors - Table #13.5	All	15427 mi	0.0177 g/mi	
Ford #24590	Mobile Combustion - Scope 1	EPA Tier 2	CO2	15.02407	15.02407 Emission Factor	2014 Default Emission Factors - Table #13.1	All	1711.17 gal	8.78 kg/gal	5.25 MMBtu/bbl
Ford #24590	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0.00034	0.00706 Emission Factor	2014 Default Emission Factors - Table #13.4	All	21133 mi	0.0159 g/mi	

TCR Table 13.5
CH4 and N2O
Emission
Factors for
Highway
Vehicles by

Massachusetts Greenhouse Gas Emissions Reporting Program

Total Facility Emissions Report

EL PASO ENERGY-STATI [Facility AQ ID: 1190945]

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MA Facility AQ Id 1190945

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Facility ID	Scope	EPA Tier	Gas	Quantity	Emission Factor	Default Emission Factors	Applies To	Distance	Rate	Energy	Model Year
Ford #24590	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0.00019	0.05831 Emission Factor	2014 Default Emission Factors - Table #13.4	All	21133 mi	0.0089 g/mi		Model Year. TCR Table 13.5 CH4 and N2O Emission Factors for Highway Vehicles by Model Year.
Ford #24592	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0.00036	0.00766 Emission Factor	2014 Default Emission Factors - Table #13.4	All	22947 mi	0.0159 g/mi		Model Year. TCR Table 13.5 CH4 and N2O Emission Factors for Highway Vehicles by Model Year.
Ford #24592	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0.0002	0.06331 Emission Factor	2014 Default Emission Factors - Table #13.4	All	22947 mi	0.0089 g/mi		Model Year. TCR Table 13.5 CH4 and N2O Emission Factors for Highway Vehicles by Model Year.
Ford #25391	Mobile Combustion - Scope 1	EPA Tier 2	CO2	18.39673	18.39673 Emission Factor	2014 Default Emission Factors - Table #13.1	All	2095.3 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford #25391	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0.00042	0.00886 Emission Factor	2014 Default Emission Factors - Table #13.4	All	25877 mi	0.0163 g/mi		
Ford #25391	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0.00017	0.05294 Emission Factor	2014 Default Emission Factors - Table #13.4	All	25877 mi	0.0066 g/mi		
Ford #25394	Mobile Combustion - Scope 1	EPA Tier 2	CO2	12.31614	12.31614 Emission Factor	2014 Default Emission Factors - Table #13.1	All	1402.75 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford #25394	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0.00028	0.00593 Emission Factor	2014 Default Emission Factors - Table #13.4	All	17324 mi	0.0163 g/mi		
Ford #25394	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0.00011	0.03544 Emission Factor	2014 Default Emission Factors - Table #13.4	All	17324 mi	0.0066 g/mi		
Ford #25396	Mobile Combustion - Scope 1	EPA Tier 2	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford #25396	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.4	All	0 mi	0.0163 g/mi		
Ford #25396	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0	0 Emission Factor	2014 Default Emission Factors - Table #13.4	All	0 mi	0.0066 g/mi		
Ford #25527	Mobile Combustion - Scope 1	EPA Tier 2	CO2	13.25885	13.25885 Emission Factor	2014 Default Emission Factors - Table #13.1	All	1510.12 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford #25527	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0.0003	0.00638 Emission Factor	2014 Default Emission Factors - Table #13.4	All	18650 mi	0.0163 g/mi		

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Ford #25527	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0.00012	0.03816 Emission Factor	2014 Default Emission Factors - Table #13.4	All	18650 mi	0.0066 g/mi		
Ford #25542	Mobile Combustion - Scope 1	EPA Tier 2	CO2	0	0 Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford #25542	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0	0 Emission Factor	2014 Default Emission Factors - Table #13.4	All	0 mi	0.0163 g/mi		
Ford #25542	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0	0 Emission Factor	2014 Default Emission Factors - Table #13.4	All	0 mi	0.0066 g/mi		
Ford 25370	Mobile Combustion - Scope 1	EPA Tier 2	CO2	11.0642	11.0642 Emission Factor	2014 Default Emission Factors - Table #13.1	All	1260.16 gal	8.78 kg/gal	5.25 MMBtu/bbl	
Ford 25370	Mobile Combustion - Scope 1	EPA Tier 2	CH4	0.00025	0.00533 Emission Factor	2014 Default Emission Factors - Table #13.4	All	15563 mi	0.0163 g/mi		
Ford 25370	Mobile Combustion - Scope 1	EPA Tier 2	N2O	0.0001	0.03184 Emission Factor	2014 Default Emission Factors - Table #13.4	All	15563 mi	0.0066 g/mi		
GENERATOR #1-CATERPILLAR 3406 150KW NATURAL GAS	Stationary Combustion - Scope 1	Unspecified Technology	CO2	5.84721	5.84721 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,035 Btu / SCF	110.2 MMBtu	53.06 kg/MMBtu	1035 Btu/scf	EPA MRR Factor
GENERATOR #1-CATERPILLAR 3406 150KW NATURAL GAS	Stationary Combustion - Scope 1	Unspecified Technology	CH4	0.00011	0.00231 Emission Factor	2014 Default Emission Factors - Table #12.9	1,025 - 1,035 Btu / SCF	110.2 MMBtu	0.001 kg/MMBtu	1035 Btu/scf	
GENERATOR #1-CATERPILLAR 3406 150KW NATURAL GAS	Stationary Combustion - Scope 1	Unspecified Technology	N2O	1e-005	0.00342 Emission Factor	2014 Default Emission Factors - Table #12.9	1,025 - 1,035 Btu / SCF	110.2 MMBtu	0.0001 kg/MMBtu	1035 Btu/scf	
Pneumatic	Process - Scope 1	Unspecified Technology	CO2	0.0987	0.0987 PreCalculated		N/A	0 GL			Emissions from pneumatic devices are calculated using Equation W-1 of 40 CFR Part 98 Subpart W. Emissions from pneumatic devices are calculated using Equation W-1 of 40 CFR Part 98 Subpart W. Emissions from refrigerants are calculated using Equation 16e of General Reporting Protocol for the Voluntary Reporting Program. startup gas =
Pneumatic	Process - Scope 1	Unspecified Technology	CH4	17.6212	370.0452 PreCalculated		N/A	0 GL			
Refrigerants	Fugitive - Scope 1	Unspecified Technology	HFC-13 ..	0.00271	3.523 PreCalculated		N/A	0 GL			
Start-Up Gas	Process - Scope 1	Unspecified	CO2	0.3826	0.3826 PreCalculated		N/A	0 GL			

Massachusetts Greenhouse Gas Emissions Reporting Program

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		Technology										meter 40116 - (267-A-01 fuel + 267-A-02 fuel + 267-A-03 fuel + 267-B-01 fuel) + 267-B-02 fuel) startup gas = meter 40116 - (267-A-01 fuel + 267-A-02 fuel + 267-A-03 fuel + 267-B-01 fuel + 267-B-02 fuel)	
Start-Up Gas	Process - Scope 1	Unspecified Technology	CH4	57.3939	1205.2719	PreCalculated		N/A	0 GL				
Station Blowdowns	Process - Scope 1	Unspecified Technology	CO2	0.1276	0.1276	PreCalculated		N/A	0 GL				
Station Blowdowns	Process - Scope 1	Unspecified Technology	CH4	19.144	402.024	PreCalculated		N/A	0 GL				
Toyota #24232	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	CO2	0	0	Emission Factor	2014 Default Emission Factors - Table #13.1	All	0 gal	8.78 kg/gal	5.25	MMBtu/bbl	
Toyota #24232	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	CH4	0	0	Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0152 g/mi			
Toyota #24232	Mobile Combustion - Scope 1	Vans, Pickup Trucks, SUVs (Model Year 2004)	N2O	0	0	Emission Factor	2014 Default Emission Factors - Table #13.5	All	0 mi	0.0132 g/mi			
TURBINE #1A-SOLAR SATURN T-1000 NATURAL GAS	Stationary Combustion - Scope 1	Turbines >3MW	CO2	104.38706	104.38706	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	1967.34 MMBtu	53.06 kg/MMBtu	1050	Btu/scf	
TURBINE #1A-SOLAR SATURN T-1000 NATURAL GAS	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.00197	0.04131	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	1967.34 MMBtu	1 g/MMBtu	1050	Btu/scf	EPA MRR Factor
TURBINE #1A-SOLAR SATURN T-1000 NATURAL GAS	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.0002	0.06099	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	1967.34 MMBtu	0.1 g/MMBtu	1050	Btu/scf	EPA MRR Factor
TURBINE #1B-SOLAR SATURN T-1000 NATURAL GAS	Stationary Combustion - Scope 1	Turbines >3MW	CO2	1346.05632	1346.05632	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	25368.57 MMBtu	53.06 kg/MMBtu	1050	Btu/scf	
TURBINE #1B-SOLAR SATURN T-1000 NATURAL GAS	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.02537	0.53274	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	25368.57 MMBtu	1 g/MMBtu	1050	Btu/scf	EPA MRR Factor
TURBINE #1B-SOLAR SATURN T-1000 NATURAL GAS	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.00254	0.78643	Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	25368.57 MMBtu	0.1 g/MMBtu	1050	Btu/scf	EPA MRR Factor
TURBINE #2A-SOLAR SATURN T-1000 NATURAL GAS	Stationary Combustion - Scope 1	Turbines >3MW	CO2	1971.45385	1971.45385	Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	37155.18 MMBtu	53.06 kg/MMBtu	1050	Btu/scf	

Massachusetts Greenhouse Gas Emissions Reporting Program



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GAS TURBINE #2A-SOLAR SATURN T-1000 NATURAL	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.03716	0.78026 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	37155.18 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
GAS TURBINE #2A-SOLAR SATURN T-1000 NATURAL	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.00372	1.15181 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	37155.18 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
GAS TURBINE #2B-SOLAR SATURN T-1000 NATURAL	Stationary Combustion - Scope 1	Turbines >3MW	CO2	1355.46068	1355.46068 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	25545.81 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
GAS TURBINE #2B-SOLAR SATURN T-1000 NATURAL	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.02555	0.53646 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	25545.81 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
GAS TURBINE #2B-SOLAR SATURN T-1000 NATURAL	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.00255	0.79192 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	25545.81 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
GAS TURBINE #3A-SOLAR SATURN T-1000 NATURAL	Stationary Combustion - Scope 1	Turbines >3MW	CO2	1784.65294	1784.65294 Emission Factor	2014 Default Emission Factors - Table #12.1	1,025 - 1,050 Btu / SCF	33634.62 MMBtu	53.06 kg/MMBtu	1050 Btu/scf	
GAS TURBINE #3A-SOLAR SATURN T-1000 NATURAL	Stationary Combustion - Scope 1	Turbines >3MW	CH4	0.03363	0.70633 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	33634.62 MMBtu	1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
GAS TURBINE #3A-SOLAR SATURN T-1000 NATURAL	Stationary Combustion - Scope 1	Turbines >3MW	N2O	0.00336	1.04267 Emission Factor	2014 Default Emission Factors - Table #12.7	1,025 - 1,050 Btu / SCF	33634.62 MMBtu	0.1 g/MMBtu	1050 Btu/scf	EPA MRR Factor
GAS Welding/Cutting Activities	Stationary Combustion - Scope 1	Unspecified Technology	CO2	0.01564	0.01564 Emission Factor	2014 Default Emission Factors - Table #12.1	Acetylene	148.5 scf	0.1053 kg/scf	0.00147 MMBtu/scf	

**INVESTIGATION OF PARAMETERS FOR EXERCISING AUTHORITY PURSUANT TO
MAINE ENERGY COST REDUCTION ACT, 35-A M.R.S.A. SECTION 1901
2014-00071
RESPONSE TO ODR-010
BY TENNESSEE GAS PIPELINE COMPANY, LLC**

18-AUG-14

ODR-010-002

Q. Please explain whether your company employs the best leak detection and control available . If the best leak detection and control differs that required under state and federal standards, please specify which your company employs and where.

A. Tennessee Gas Pipeline Company, L.L.C. (?TGP?) is regulated by the Pipeline Hazardous Materials and Safety Administration (?PHMSA?) under regulations 49 CFR Part 192. PHMSA regulations require certain leak detection and control practices. The method and frequency of the leak detection and control practices required by PHMSA varies based on the location of the facilities. In certain regions, air permits issued by state agencies under delegated authority from the Environmental Protection Agency (?EPA?) may also require TGP to monitor methane emissions from facilities at its compressor stations. TGP?s leak detection program complies with and in some instances exceeds the standards and requirements set by PHMSA or the EPA. TGP employs an extensive program to identify and control leaks on its pipeline system. TGP?s leak detection program complies with and in some instances exceeds the standards set by PHMSA. TGP?s leak detection program begins with the continuous monitoring of operating parameters along the pipeline, which are part of the Supervisory Control and Data Acquisition system. Other components of the program include the odorization of all gas that enters New England States and frequent aerial and foot patrols of the pipeline system. The leak detection equipment utilized during operations and maintenance activity along the pipeline and inside company facilities includes, state-of-the-art technology including Forward-Looking Infrared Radar (FLIR), remote methane leak detection cameras and other hand held leak detection equipment.

Author of Response:

C. Todd Piczak, Assistant General Counsel, Kinder Morgan Gas Pipelines

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2014-00071
RESPONSE TO ODR-010
BY TENNESSEE GAS PIPELINE COMPANY, LLC**

19-AUG-14

ODR-010-003

Q. Please provide the subscription level reached in precedent agreements to date for your pipeline project (Atlantic Bridge, C2C, or Northeast Direct) and indicate whether this level is sufficient for the project to move forward. If not sufficient or the decision has not been made, please specify what level or ranges of commitment would be sufficient to move the project forward, how and when the decision will be made.

A. On July 30, 2014, TGP issued a press release announcing that it has reached agreement on commercial terms with several local distribution companies (?LDCs?) in Connecticut, Massachusetts, New Hampshire and Rhode Island for approximately 500,000 Dth/day on the Northeast Energy Direct Project. The press release also stated that the NED Project is scalable from 800,000 Dth/d to 1,200,000 Dth/d, or ultimately up to 2,200,000 Dth/d, depending on final customer commitments. TGP has been actively developing the NED Project for over a year. Based on the current agreement, subject to customary approvals, with key New England LDCs, encouraging discussions with other potential firm shippers, and this proceeding before the Maine PUC, TGP is confident that, in the near term, it will continue to develop the NED Project. Specifically, TGP is planning to initiate the pre-filing environmental review process at the Federal Energy Regulatory Commission (FERC) in September 2014. Starting the FERC pre-filing process is a significant milestone for the NED Project. During the pre-filing process, TGP will be actively engaged with FERC Staff and other stakeholders to develop the environmental reports that will form the basis of its FERC application for a certificate of public convenience, which TGP is planning to file in September, 2015. As it does with every development project, TGP will evaluate a number of factors in determining whether to continue moving forward. For the NED Project, these factors include: the economics of the commercial deals negotiated; the continued commitment of the Project shippers as demonstrated by the acquisition of approvals from their respective regulators; serious interest from other potential shippers such as electric generators in New England; the progression of other state and regional initiatives to secure incremental natural gas transportation capacity for New England; as well as refinement of routing alternatives and ultimate cost estimates for the design facilities; the necessary permitting and construction of the final facilities design. TGP expects to continue developing the Project so long as it has binding commitments for sufficient volumes for TGP to economically justify the commitment of capital that will be required to permit and construct the Project. TGP absolutely believes that New England must have significant new natural gas transportation capacity to address the region's natural gas supply needs and reduce energy costs for the region's residential, commercial and industrial consumers. TGP and its parent corporation have the expertise and the capital capacity to complete the project if the regional customers are willing to commit to capacity. A copy of the July 30, 2014 press release is attached to this response.

Author of Response:

C. Todd Piczak, Assistant General Counsel, Kinder Morgan Gas Pipelines

List of Attachments

1. 2014-00071 ODR10-03 Att.pdf



KINDER MORGAN ENERGY PARTNERS ANNOUNCES INITIAL ANCHOR SHIPPERS FOR NORTHEAST ENERGY DIRECT PROJECT

HOUSTON, July 30, 2014 – Kinder Morgan Energy Partners, L.P. (NYSE: KMP) today announced it has reached agreement, subject to customary approvals, with key local natural gas distribution companies (LDCs) throughout New England to transport approximately 500,000 dekatherms per day (Dth/d) of long-term firm transportation on the market path component of Tennessee Gas Pipeline Company’s (TGP) Northeast Energy Direct Project. Included in this key group are: The Berkshire Gas Company, Columbia Gas of Massachusetts, Connecticut Natural Gas Corporation, Liberty Utilities (EnergyNorth Natural Gas) Corp., National Grid, Southern Connecticut Gas Corporation, and three other LDCs. Negotiations with additional customers on both the market path and supply path components of the Northeast Energy Direct Project are continuing and agreements are expected to be announced soon.

“We are extremely pleased to provide a key solution to New England’s long-term energy infrastructure needs,” said Natural Gas Pipelines East Region President Kimberly S. Watson. “Multiple studies continue to suggest there is a need for up to 2 billion cubic feet per day (Bcf/d) of new pipeline capacity into New England and neighboring markets, and the commitment by the LDCs represents a critical milestone in the development of TGP’s role in solving the need for new energy infrastructure. TGP provides unmatched supply diversity, including access to the prolific Marcellus shale, making the Northeast Energy Direct Project an ideal solution to satisfy rapidly growing natural gas demand that is forecasted in the Northeast and New England in the years ahead.”

Northeast Energy Direct has capacity scalable from approximately 800,000 Dth/d to 1.2 Bcf/d, or ultimately up to 2.2 Bcf/d, depending on final customer commitments. Capacity will include a combination of new pipeline, existing pipeline, additional pipeline loops, new compressor stations, station modifications and metering and measurement equipment in

(more)

Pennsylvania, New York, Massachusetts, Connecticut, New Hampshire and Rhode Island. TGP plans to begin the pre-filing process with the Federal Energy Regulatory Commission in September 2014. Subject to receiving sufficient commitments for capacity as well as regulatory approval, the project is expected to begin service in November 2018.

Kinder Morgan Energy Partners, L.P. (NYSE: KMP) is a leading pipeline transportation and energy storage company and one of the largest publicly traded pipeline limited partnerships in America. It owns an interest in or operates approximately 54,000 miles of pipelines and 180 terminals. The general partner of KMP is owned by Kinder Morgan, Inc. (NYSE: KMI). Kinder Morgan is the largest midstream and the fourth largest energy company in North America with a combined enterprise value of approximately \$110 billion. It owns an interest in or operates approximately 80,000 miles of pipelines and 180 terminals. Its pipelines transport natural gas, gasoline, crude oil, CO₂ and other products, and its terminals store petroleum products and chemicals and handle such products as ethanol, coal, petroleum coke and steel. KMI owns the general partner interests of KMP and El Paso Pipeline Partners, L.P. (NYSE: EPB), along with limited partner interests in KMP and EPB and shares in Kinder Morgan Management, LLC (NYSE: KMR). For more information please visit www.kindermorgan.com.

This news release includes forward-looking statements. These forward-looking statements are subject to risks and uncertainties and are based on the beliefs and assumptions of management, based on information currently available to them. Although Kinder Morgan believes that these forward-looking statements are based on reasonable assumptions, it can give no assurance that such assumptions will materialize. Important factors that could cause actual results to differ materially from those in the forward-looking statements herein include those enumerated in Kinder Morgan's reports filed with the Securities and Exchange Commission. Forward-looking statements speak only as of the date they were made, and except to the extent required by law, Kinder Morgan undertakes no obligation to update or review any forward-looking statement because of new information, future events or other factors. Because of these uncertainties, readers should not place undue reliance on these forward-looking statements.

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**INVESTIGATION OF PARAMETERS FOR EXERCISING AUTHORITY PURSUANT TO
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2014-00071
RESPONSE TO ODR-010
BY TENNESSEE GAS PIPELINE COMPANY, LLC**

18-AUG-14

ODR-010-005

Q. Please indicate what, if any, compressor or other equipment failures occurred over the last 12 years on systems transporting gas from the Marcellus region into New England that resulted in outages, interruption or reduction in the pipeline's delivery of scheduled volumes.

A. "Scheduled Quantity" (or scheduled volumes) is defined in Tennessee Gas Pipeline Company L.L.C.'s ("TGP") FERC Gas Tariff as "the quantity of natural gas that (a) Shipper nominates for receipt at a receipt point (including fuel) or the quantity that [Tennessee] redelivers to Shipper at a delivery point, and that (b) the operator of the connecting facilities confirms, and that (c) [Tennessee] schedules for receipt or delivery." TGP is not aware of any instance of compressor or other equipment failure which caused it to have to interrupt or reduce firm natural gas supplies already considered to be Scheduled Quantities. Following a review of its operations back to November 2006, TGP determined there has been one occasion on which a failure of a compressor or other equipment has caused TGP not to schedule all the quantities of natural gas nominated by shippers for firm transportation service. On January 13, 2014, TGP experienced a failure of a compressor unit at Station 254 (located in the vicinity of Nassau, New York). TGP declared an event of force majeure pursuant to its FERC Gas Tariff that lasted from January 14-18, 2014. During this time period restricted Scheduled Quantities by an average of 170,988 Dth/d (approximately 14 % of the capacity that TGP is capable of transporting through that compressor station). After repairing the compressor unit, TGP placed the unit back in service and lifted the force majeure on the morning of January 18, 2014. Prior to November 2006 Tennessee is not aware of any other compressor or equipment failure that resulted in an unexpected reduction in primary firm natural gas transportation service in the Marcellus-to-New England regions.

Author of Response:

C. Todd Piczak, Assistant General Counsel, Kinder Morgan Gas Pipelines

List of Attachments

Report to Tennessee Gas Pipeline Company, L.L.C.

December 5, 2014

Richard Silkman
Mark Isaacson



Overview

We are submitting this Report to Tennessee Gas Pipeline Company, LLC in response to certain questions and requests presented by the Commission in its Order – Phase 1 dated November 13, 2014 in Docket No. 2014-00071. This Report is based upon and should be read in conjunction with our direct testimony filed in that case on July 11, 2014.¹ Specifically, this Report (a) updates our model to estimate the economic value of incremental natural gas pipeline capacity into New England, (b) examines the differences in pipeline proposals with respect to their respective points of receipt of natural gas and explains why this is an important consideration for the Commission, (c) clarifies the concept of a “hedge value” and proposes a methodology for the Commission to use to assess the resale value of firm pipeline capacity it acquires through an ECRC and (d) provides a decision making criterion that is grounded in economic theory for the Commission to employ in evaluating whether to enter into an ECRC.

Model Updates

We have updated our model to estimate the economic value of incremental natural gas pipeline capacity into New England to reflect changes in electric, natural gas, LNG and oil market conditions in New England that have occurred since early summer.² The specific updates are:

1. We have reduced the north-to-south flows on the Maritime & Northeast Pipeline out of Canada to zero. This is consistent with the estimated production volumes from Deep

¹ “Direct Testimony and Exhibits,” Richard Silkman and Mark Isaacson, July 11, 2014, filed in Docket No. 2014-00071.

² Our original results were presented in Figure 7 on page 26 of our direct testimony in this case, dated July 11, 2014.

Panuke and Sable Island relative to combined New Brunswick and Nova Scotia natural gas demands.³

2. We have increased pipeline capacity into New England by 0.40 bcf/d to reflect the increased certainty that Spectra's AIM project and Tennessee's Connecticut expansion project will come on-line over the next two years.⁴
3. We have increased peak day LDC natural gas demands from 4.2 bcf/d to 4.5 bcf/d to account for new or expanded natural gas loads in the region.
4. We have reduced the prices of non-pipeline natural gas fuels to reflect recent changes in energy markets⁵ as follows:
 - a. Oil - \$22/mmbtu to \$17/mmbtu
 - b. LNG - \$18/mmbtu to \$14/mmbtu
 - c. Propane - \$19/mmbtu to \$16/mmbtu

We have made no further adjustments for potential coal and/or oil generating unit shutdowns or delistings in New England nor for any increased renewable generating capacity, including, for example, new purchases from Canada. We have also made no further adjustments for weather variations or load growth, as we believe the 2013 calendar year represents a reasonable representation of expected future weather and electric load conditions in New England.

³ This flow figure does not include any flows of LNG from the Canaport facility in Saint John.

⁴ We note that the analysis in our direct testimony effectively included 0.35 bcf/d of this incremental capacity, so the actual incremental capacity in this update is only 0.05 bcf/d.

⁵ We have made this adjustment to be conservative in our estimates of the economic benefits to Maine of additional pipeline capacity and to rebut the argument that the recent fall in oil prices has eliminated any need for additional pipeline capacity into New England. Since it will take 2-4 years to develop new pipeline capacity, the relevant fuel prices are those that will exist in 2017 and beyond. As of 12/4/2014, Bloomberg was reporting NYMEX and ICE forward crude oil contracts for 2017 and 2018 just above \$90/barrel. We are unaware of any market-based price indexes for forward LNG contracts other than those that are oil-based.

The net effect of these changes on the economic value of incremental pipeline capacity into New England is relatively minor as they tend, in the aggregate, to offset each other. We present the results of the model in Figure 1.

With a baseline of 3.136 bcf/d of pipeline capacity into New England, total annual energy costs for electricity are just below \$7.7 billion, since LNG will be required to meet natural gas demands for just over 2,100 hours a year. In this base case, the average annual load weighted energy clearing price is estimated to be \$60.38/MWh.

An incremental 200 mmcf/d of natural gas pipeline capacity into the region reduces the number of hours when LNG is called upon by 400 hours. This lowers the load weighted average energy clearing price to \$56.55, resulting in total annual savings of just less than \$500 million to electric ratepayers across New England. Further pipeline capacity increases result in additional incremental savings, although at a decreasing rate, until at 2.4 bcf/d of incremental pipeline capacity, there are only about 50 hours where LNG or a higher priced fuel is setting the clearing price, and total savings to New England's electric ratepayers are \$3 billion a year.⁶

⁶ As with our direct testimony, we have not attempted to estimate the value of additional pipeline capacity to natural gas LDC customers or industrial process loads. This value will depend upon the amount of existing firm capacity holdings the LDCs and industrial customers hold and the contractual terms of such holdings.

Figure 1 Summary – Economic Value

Summary - Economic Value of Incremental Natural Gas Pipeline Capacity to New England Electric Consumers				
Pipeline Capacity	Pipeline Capacity	Hours of Generation by Fuel Type		
	bcf/d	LNG	Propane	Oil
Base Case	3,136	2113	374	296
+ 0.2 bcf/d Capacity	3,336	1723	267	217
+ 0.4 bcf/d Capacity	3,536	1316	198	158
+ 0.6 bcf/d Capacity	3,736	993	144	120
+ 0.8 bcf/d Capacity	3,936	750	104	78
+ 1.0 bcf/d Capacity	4,136	550	71	56
+ 1.2 bcf/d Capacity	4,336	391	53	46
+ 1.4 bcf/d Capacity	4,536	288	41	35
+ 1.6 bcf/d Capacity	4,736	206	34	28
+ 1.8 bcf/d Capacity	4,936	152	27	22
+ 2.0 bcf/d Capacity	5,136	111	17	12
+ 2.2 bcf/d Capacity	5,336	74	11	9
+ 2.4 bcf/d Capacity	5,536	54	7	6

Pipeline Capacity	Annual Energy Costs	Incremental Savings	Cumulative Savings	Load Weighted Avg. Energy Price
	(\$)	(\$)	(\$)	(\$/MWh)
Base Case	\$7,683,828,621			\$60.38
+ 0.2 bcf/d Capacity	\$7,196,238,670	\$487,589,951	\$487,589,951	\$56.55
+ 0.4 bcf/d Capacity	\$6,662,968,905	\$533,269,765	\$1,020,859,716	\$52.36
+ 0.6 bcf/d Capacity	\$6,215,782,492	\$447,186,412	\$1,468,046,128	\$48.84
+ 0.8 bcf/d Capacity	\$5,862,015,565	\$353,766,927	\$1,821,813,055	\$46.06
+ 1.0 bcf/d Capacity	\$5,556,608,801	\$305,406,764	\$2,127,219,819	\$43.66
+ 1.2 bcf/d Capacity	\$5,302,503,435	\$254,105,366	\$2,381,325,185	\$41.67
+ 1.4 bcf/d Capacity	\$5,129,825,208	\$172,678,227	\$2,554,003,412	\$40.31
+ 1.6 bcf/d Capacity	\$4,986,336,567	\$143,488,641	\$2,697,492,053	\$39.18
+ 1.8 bcf/d Capacity	\$4,887,791,007	\$98,545,560	\$2,796,037,613	\$38.41
+ 2.0 bcf/d Capacity	\$4,809,857,588	\$77,933,420	\$2,873,971,033	\$37.80
+ 2.2 bcf/d Capacity	\$4,737,106,541	\$72,751,047	\$2,946,722,080	\$37.22
+ 2.4 bcf/d Capacity	\$4,696,129,285	\$40,977,255	\$2,987,699,335	\$36.90

Pipeline Point of Receipt

Our testimony in this case and the updated analysis presented in the first section of this Report calculate the value of incremental capacity relative to a point of receipt of natural gas in New York and priced at the TETCO M3 liquidity point. For purposes of these analyses, we have assumed an annual average price for natural gas of \$5.00 per mmbtu at this liquidity point. This represents a NYMEX price of \$4.25 and a TETCO M3 basis differential of \$0.75.⁷ This assumption is appropriate for any new pipelines, pipeline expansions or pipeline upgrades that receive natural gas upstream of New England at a point governed by the TETCO M3 price. We understand that this applies, for example, to Spectra's AIM project and the other expansion scenarios discussed by Spectra.

It does not apply, however, to new pipelines or pipeline expansions or upgrades that receive natural gas upstream at points outside the TETCO M3 region. These would include the PNGTS Continent-to-Coast expansion (C2C) and the Kinder Morgan Northeast Direct (NED) projects.⁸

This is an important issue that needs to be carefully considered by the Commission and factored into its evaluation of each pipeline proposal it receives. This is because the pricing at various liquidity points in the northeast that may represent a point of receipt under one or more of the potential pipeline proposals can be very different. Figure 2 shows the average spot market price of natural gas (\$/mmbtu) at the various liquidity points over the past year from

⁷ The reader will note from Figure 2 that these assumptions are just below market conditions that have prevailed over the past 12 months.

⁸ It also includes the Tennessee CT expansion, which has as its effective point of origination, receipt of natural gas at Wright, NY.

December 1, 2013 through November 30, 2014.⁹ These values are prices for natural gas received at each of these liquidity points.

Figure 2 Average Spot Price for Natural Gas at Various Liquidity Points in the Northeast for the last 12 Months (\$/mmbtu)

Liquidity Point	Symbol	Average Price per mmbtu from 12/1/13 – 11/30/14
Henry Hub – NYMEX	NGUSHHUB	\$4.397
TGP Z4 Marcellus	NGNETE4M	\$2.571
Millenium EP	NGCEMLNE	\$3.257
TETCO M3	NGCGNYNY	\$5.277
DAWN	NGCAPARK	\$6.210
Transco Z6 (NY)	NGNETRNZ	\$6.421

Since what matters to Maine customers and indeed all natural gas and electricity ratepayers throughout New England is the delivered price of natural gas, it is critical that the Commission evaluate the delivered price of natural gas that can be expected from each of the pipeline proposals it receives. To illustrate the significance of this, we have developed three generic scenarios that we believe to be reasonably representative of proposals from Kinder Morgan (NED), PNGTS (C2C) and Spectra with respect to an estimated price of natural gas at the point of receipt and point of delivery for each of the proposals.

- Kinder Morgan (NED) – assuming the point of receipt is Wright, NY, the price of natural gas at this receipt point will be equal to the TGP Z4 Marcellus price of \$2.571/mmbtu plus the tariff rate on NED from the Marcellus Region to Wright, NY,

⁹ These values represent the simple averages, assuming a constant volume each day. Since the price differentials tend to be higher during periods of higher gas demand, we would expect that load weighted differentials would be somewhat higher than those shown. The source of this information is Bloomberg.

which we assume to be \$0.75/mmbtu and the price at the point of delivery will be the price at the point of receipt plus the rate proposed to the Commission for delivery on NED to Dracut.

- PNGTS (C2C) – assuming the point of receipt is the intersection of PNGTS with the TransCanada Pipeline (TCPL) in Quebec, the price of natural gas at this receipt point will be equal to the Dawn price of \$6.210 plus the tariff rate on TCPL to PNGTS, and the price at the point of delivery will be the price at the point of receipt plus the rate proposed to the Commission for delivery to Maritimes and Northeast. Alternatively, the PNGTS has indicated it can backhaul natural gas from the Marcellus region using the Constitution Pipeline to the Iroquois Pipeline into Canada and then to the TCPL Pipeline to PNGTS. In this case, the price of natural gas at the receipt point will be the Marcellus price of \$2.571 plus the tariffs on Constitution, Iroquois and TCPL, which we estimate to be \$0.75, \$0.22 and \$0.43, respectively, (\$1.40 in total) and the price at the point of delivery will be this price at the point of receipt plus the rate proposed to the Commission for delivery to Maine.¹⁰
- Spectra – assuming the point of receipt is the TETCO M3 liquidity point, the price of natural gas at this receipt point will be equal to the TETCO M3 price of \$5.277 per mmbtu and the price at the point of delivery will be the price at the point of receipt plus the rate proposed to the Commission for delivery to Dracut.

These prices are summarized in Figure 3 in tabular form. Figure 3 illustrates the significant advantage the Kinder Morgan’s pipeline proposal offers through its extension back to the

¹⁰ The source for these tariff prices for Iroquois and TCPL are from PNGTS Update, Maine Natural Gas Conference, October 9, 2014. We have assumed the price from Marcellus to Wright is equivalent for both the NED and PNGTS pipeline proposals at \$0.75/mmbtu.

Marcellus region and its ability to provide relatively inexpensive natural gas at the point of receipt in Wright, NY. Assuming that the values for “x” and “z” in Figure 3 are similar, the Kinder Morgan pipeline proposal provides an additional \$1.70/mmbtu in value relative to the Spectra option for delivery to Dracut. Further, since the Kinder Morgan pipeline proposal does not have to backhaul gas through Canada, it may provide a lower cost source of access to Marcellus gas than the PNGTS pipeline proposal, depending on the value of “x” and what finally happens with tariffs on TCPL after the upgrades to that system.

Figure 3 Price at Point of Delivery for Various Generic Pipeline Proposals

	Kinder Morgan (NED)	PNGTS (C2C) (DAWN)	PNGTS (C2C) (Marcellus)	Spectra
Price at Upstream Liquidity Point if Upstream of Point of Receipt	\$2.571	\$6.210	\$2.571	N/A
Tariff to Point of Receipt	\$0.75 (1)	\$0.89 (2)	\$1.40 (3)	N/A
Price at Point of Receipt	\$3.321	\$6.860	\$3.971	\$5.277
Tariff to Point of Delivery	“x”	\$0.60 (4)	\$0.60 (4)	“z”
Price at Point of Delivery	\$3.321 + “x”	\$7.460	\$4.571	\$5.277 + “z”

Notes to Figure 3:

- (1) CES does not know what specific tariff that Kinder Morgan plans to offer shippers to move gas from the Marcellus region to Wright, NY on its NED. CES is using the \$0.75/mmbtu for illustration purposes.
- (2) PNGTS Update, Maine Natural Gas Conference, October 9, 2014.
- (3) This is the sum of the Constitution, Iroquois and TGP tariffs.
- (4) PNGTS Update, NGA Market Forum, May 1, 2014.
- “x” This is the rate proposed by Kinder Morgan to the Maine Commission. CES is not aware of what this rate is and is using “x” for illustrative purposes.
- “z” This is the rate proposed by Spectra to the Maine Commission. CES is not aware of what this rate is and is using “z” for illustrative purposes.

The above figures and calculations represent conditions as they existed over the past 12 months. Since this past winter was an especially cold one in the upper Midwest, the pricing at Dawn is higher than we would expect it to be going forward. Accordingly, the cost disadvantage shown for the PNGTS Dawn option is likely to be less severe going forward as the Dawn price converges to the Henry Hub price.¹¹ Also, in the future, we can expect to see additional pipelines being built to move Marcellus gas to the south and west. This will increase the price in Marcellus, reducing the difference between it and the price at Henry Hub, all other things being equal.¹² Similarly, if there are additional pipelines constructed to move gas from Marcellus into the New York (TETCO M3) market, the TETCO M3 price will fall, which will reduce the delivered price of the Spectra pipeline proposal. Over time these factors will tend to reduce, though not eliminate, the point of receipt price differentials between the Kinder Morgan pipeline proposal (the price at Wright), the PNGTS pipeline proposal (the price at TCPL) and the Spectra pipeline proposal(s) (the price at TETCO M3). We thus expect the Linder Morgan pipeline project to offer a price advantage over the next 15 to 20 years.

Assuming the capacity of the Kinder Morgan proposed pipeline is less than 1 bcf/d, throughput on the Kinder Morgan proposed pipeline will be less than the combined electric and non-electric market demand for natural gas in New England on most days of the year.¹³ As a result, pipeline flows on this line will not represent marginal flows into the New England

¹¹ The 12 month average price at Dawn was heavily influenced by very high prices during the last week of February and first week of March. If these two weeks are eliminated, the annual average price falls to \$5.30/mmbtu.

¹² However, it is not likely that “all other things will be equal,” as increased pipeline availability is likely to increase drilling and production at Marcellus.

¹³ If we assume that all of this gas is used for electric generation and none for either space heat or industrial processes, at an average heat rate of 8,500 btu/kWh, this flow represents approximately 120,000 MWhs a day. This is approximately 33% of the average daily MWh load in New England.

market, and these flows will not set clearing prices in that market.¹⁴ Therefore, the delivered cost advantage of the Kinder Morgan proposed pipeline relative to other routes will redound to the benefit of the holder(s) of firm capacity on that pipeline, while the gas price reduction in the market will be equal to that for other routes.

As we discuss further in the next section, if Maine holds firm capacity on this or any pipeline that represents a relatively small percent of the daily natural gas flows into New England and that pipeline has a delivered cost advantage relative to other pipelines, Maine should be able to capture this delivered cost advantage.

Hedge Value

There has been considerable confusion in this case regarding the concept of “hedge value” and how the so-called hedge value of a pipeline option should be calculated. We believe that much of this confusion derives from the use of the term “hedge value.”

A fundamental characteristic of a hedge is that it has no economic value at the time of its purchase – the price of the hedge will reflect the value today of the expected future value of a product, commodity or service when it is used. Thus, one may enter into a future contract for natural gas today, for example a one-year strip at Henry Hub, and the price of that contract will be equal to what the market expects the value of that contract to be in the future when it is exercised.¹⁵

What a hedge does provide is insurance against the risk that actual prices in the future will be significantly different from what those future prices are expected to be today. Changes

¹⁴ It is useful to think of this delivered cost advantage as an “economic rent” that flows to the holder of the firm capacity. The economic rent exists because the tariffed price for such capacity is based on costs and not economic value.

¹⁵ Throughout this discussion, we assume that there are no transaction costs associated with the purchase of a hedge.

in market conditions between the time a hedge is purchased and when it is exercised will be incorporated in the value of the hedge over this period, as the price of the hedge conforms to changing expectations about future prices at the time the hedge is exercised. Expectations that market conditions will push future prices higher will turn the value of the hedge positive; while expectations that market conditions will push future prices lower will turn the value of the hedge negative. Of course, if there are no changes in the market or if any changes in the market offset each other, the economic value of the hedge will remain equal to zero.

A natural gas pipeline is not a hedge as this term is generally used in economic and financial theory and practice. Rather, it is an investment that costs money to build and will yield an anticipated return over its useful life. A pipeline provides no certainty against changes in the actual prices of natural gas compared, for example, to what the market today has determined to be the expected future prices of natural gas. Instead, what a pipeline does is change the physical point at which natural gas is received for delivery to one or more end-use customers. Accordingly, the better term to describe the product or service a pipeline provides is, to borrow a term of art from the electricity market, a “firm transmission right” or “FTR.” A holder of firm capacity in a natural gas pipeline is entitled to purchase natural gas in the market at the origination of the pipeline for delivery to such holder for use in the market at the termination point of the pipeline (or at any intervening point along the pipeline’s route.)¹⁶ Critically, however, the opportunity to resell (through capacity release) this right into the market creates a stream of revenues that can be used to benefit Maine ratepayers that is in addition to the savings from reduced electricity prices resulting from a decrease in the basis differential.

¹⁶ To continue the reference to the electricity market, a pipeline is very similar to a DC transmission line that is capable of transmitting electricity from its point of origin to its point on termination.

Understanding a natural gas pipeline as an FTR helps emphasize a few very important points:

1. The value of firm pipeline capacity derives from different market conditions at the origination and termination of the pipeline and not from changes in either market in the future relative to expectations today about those future market conditions; that is, a pipeline's economic value derives from spatial and not temporal conditions in markets.
2. A pipeline, in and of itself, acts to reduce differences in market conditions across space. Assuming all other factors impacting market prices do not change, a pipeline will result in price increases in the originating market and prices decreases in the terminating market, as the "excess" supply in the originating market is transferred through the pipeline to the termination market where there is "insufficient" supply.¹⁷
3. A purchaser that holds firm pipeline capacity is able to move its point of receipt of natural gas from its point of end-use (e.g., a specific factory, office building or collections of residences) to the point of origination of the pipeline, which is upstream of the point of end use, and therefore closer to the source of natural gas.

Thus far, the discussion has viewed the pipeline from the perspective of the user of that natural gas. It is important to note, however, that a pipeline can also provide FTRs to a source of natural gas, e.g., a natural gas well or storage facility, at the origination of the pipeline. A natural gas well owner may hold firm capacity on a gas pipeline that entitles it to sell its natural gas into the market at the termination of the pipeline. This is stated in point number 4 below:

¹⁷ An economist would say that a pipeline, by moving natural gas from the market at its origin to the market at its termination, shifts the supply curve at its origin to the left and the supply curve at its termination to the right.

4. Where the holder of firm pipeline capacity is a supplier of natural gas, it is able to move its point of delivery of natural gas from its source to the point of termination of the pipeline, which is downstream of the point of its source.

Whether the holder of firm pipeline capacity is the end-user or the source of gas, the economic consequences are the same. The pipeline eliminates the geographic distances between the sources of the gas at the pipeline's point of origin and the end-users of the gas at the pipeline's point of termination.

We now turn our attention to developing a framework for estimating the economic value of a specific holding of firm capacity on a pipeline. To do this, we focus on a firm pipeline capacity block of 200 mmcf/d on a pipeline that originates in the TETCO M3 (New York State) market and terminates in the AGT/TZ-6 market (New England). We choose these points to align with the results of our modeling and analysis presented in our direct testimony in the first section of this Report. We further assume for illustration purposes that the 200 mmcf/d block of firm pipeline capacity is the only additional natural gas pipeline capacity into New England. Finally, if we assume an average heat rate of 8,500 btu/kWh in a natural gas fired generator¹⁸ and an annual capacity factor of 100% for that generator(s).¹⁹ Based on these assumptions, the 200 mmcf/d flow is equivalent to 73 million mmbtu/year of natural gas (at a heat content of 1,000 btu/cubic foot of natural gas) that will generate 8.6 million MWhs of generation and support roughly 1,000 MW of generation capacity.

¹⁸ This is approximately the load weighted average heat rate in New England.

¹⁹ This assumes that if the natural gas is not used by any one specific generator, it will be used by another generator.

Figure 1 estimates the savings to New England electric ratepayers from the first 200 mmcf/d of incremental pipeline capacity to be \$488 million a year. This occurs as a result of a fall in the average annual energy price from \$60.38 to \$56.55 per MWh resulting from the increase in supply of pipeline natural gas into the New England market.²⁰ Since Maine electric ratepayers represent approximately 8.5% of the total energy use in New England, the savings to Maine electric ratepayers is roughly \$41.5 million. The \$488 million and \$41.5 million represent the annual value to all New England and to just Maine electric ratepayers, respectively, of a 200 mmcf/d firm pipeline capacity entitlement on a pipeline that originates in the TETCO M3 region and terminates in the AGT/TZ-6 region, assuming this is the only incremental capacity available. These annual values can be compared to the costs of the capacity to determine whether or not Maine (and indeed the rest of the New England states) should secure through a long-term firm pipeline capacity contract the additional 200 mmcf/d.

The market value of this firm pipeline capacity to any generator or group of generators, however, is much lower. To see this, we ask what the 1,000 MW natural gas-fired generator(s) noted above would be willing to pay for this firm capacity or FTR. The ability of this generator(s) to take delivery of its gas supply in the TETCO M3 region means that it is able to generate electricity for \$36.90/MWh²¹ (the generator purchases gas at the TETCO M3 price and converts it at the same heat rate of 8500 btu/kWh)²², which it can then sell into the New England market for \$56.55/MWh. Since the generator is able to generate 8.6 million

²⁰ The actual savings that result are sensitive to the cost of liquid fuels that must substitute for natural gas during those hours when the pipeline capacity into the region is constrained.

²¹ We note that in a static environment the new capacity will also increase gas price at the source. We ignore these impacts here because they are likely to be small and will be offset at least in part by additional gas wells brought on stream to meet increased demand – production is not actually static.

²² We use the figure from the last row of Figure 7 of the CES analysis as an approximation of the condition under which there is no longer any basis differential between TETCO M3 and AGT/TZ6 pricing.

MWhs/year, the value of the firm capacity or FTR to generators is equal to just under \$170 million per year.²³ This is the amount that natural gas-fired generator(s) would be willing to pay for the 200 mmcf/d of firm pipeline capacity, assuming this was all of the incremental capacity developed. This is considerably less than the total value of \$488 million to all New England electric ratepayers. Since no individual generator or set of generators is able to capture the gains resulting from the impact additional natural gas pipeline firm capacity has on energy clearing prices, the value of such capacity to ratepayers will always be greater than the value to any individual generator.²⁴

Now, let's assume for purely hypothetical purposes that this additional pipeline capacity costs \$200 million a year. Ignoring any limitations imposed by the ECRC statute for purposes of this illustration, if Maine were to purchase this incremental capacity and then resell it (through capacity release) into the secondary market to one or more electricity generators, the Commission would in effect be paying \$200 million for something that has a market value of \$170 million – a difference of \$30 million. It would recover this \$30 million from Maine electric ratepayers. While these electric ratepayers would face a \$30 million surcharge, their electric bills would fall by \$41.5 million, leaving them \$11.5 million better off.

This analysis points out an important issue. Should Maine elect to enter into an ECRC contract for firm pipeline capacity, the value of that firm capacity to one or more natural gas-fired generators in the secondary market will be considerably lower than the value to all electric ratepayers that is used to evaluate the economic benefits of an ECRC in the first instance. The

²³ This is calculated as 8.6 million MWhs x (the generation cost difference of \$56.55 – \$36.90).

²⁴ There was some discussion in the case about having to adjust the benefits estimated by CES for potentially higher capacity costs to offset lost profits in the energy market. We do not believe this is necessary, since the market clearing price for capacity is expected to be driven by natural gas-fired generation and since gas fired generator simply pass through gas prices, there should be no change in the profitability of these generators as a result of changes in gas prices and thus no need for additional capacity payments.

Commission must recognize this fact as it evaluates pipeline proposals from the various bidders.

One additional footnote to this analysis should be added and that is that the market value of firm pipeline capacity on a pipeline proposal that provides a delivery cost advantage relative to a pipeline proposal that takes receipt of natural gas at TETCO M3 will be higher than what has been described above. For example, using the figures in the prior section, if the price at the point of receipt for the Kinder Morgan proposed pipeline is \$1.70/mmbtu less than the price at TETCO M3, a generator that holds firm capacity on that pipeline will be able to reduce its generation costs from the zero-basis price of \$36.90/MWh to approximately \$25/MWh. This increases the value of the firm capacity to this or other generators from \$172 million to \$271 million a year. This is significantly higher, though still well below the \$488 million value the additional pipeline capacity is worth to all New England ratepayers. Accordingly, under an ECRC in the example above Maine would be paying \$200 million for an investment that has a market value of \$270 million in addition to the \$41.5 million in electric savings Maine electric ratepayers receive each year.

Decision Rule

We now turn to the situation in which the incremental firm pipeline capacity under consideration by the Maine Commission is not the first purchase of incremental capacity, but a later purchase of such capacity, and is limited to 100 mmcf/d. For ease of exposition and without limiting the generality, we look at the situation in which the Maine purchase of 100 mmcf/d and is part of the 200 mmcf/d that represents the capacity incremental to an already contracted for 1.4 bcf/d; that is, the Maine 100 mmcf/d contributes to bringing total incremental

capacity from 1.4 bcf/d to 1.6 bcf/d. CES has estimated the incremental savings to New England's electric ratepayers associated with this 200 mmcf/d increase in pipeline capacity to be approximately \$143 million a year, with Maine's 8.5% equal to just under \$12.2 million. Were the Commission to seek to maximize benefits to Maine, it would compare this incremental benefit to the marginal costs of developing the associated incremental capacity.

Unfortunately, this comparison cannot and should not be performed, because firm pipeline capacity is not priced under FERC's regulatory regime on a marginal cost basis. Rather, it is priced on the basis of average costs, reflecting total revenue requirements and total annual throughput. This is a serious matter that cannot be overlooked by the Commission. While economic theory directs further investments in, or purchases of, incremental pipeline capacity to the point where the marginal benefits from such investments or purchases equal the marginal costs of such capacity, the FERC pricing regime renders such a decision rule inappropriate. Instead, the Commission must look to some other metric, since it would make no sense to compare the marginal benefits of incremental pipeline capacity to the average costs of providing the full (and not the incremental) amount of pipeline capacity.

Economic theory has developed a fix for the generic case in which the above decision rule results in either a worse or inappropriate outcome in the case where government distorts a price or cost. This fix goes by the name of "The Theory of the Second Best." In brief, the fix directs the decision maker to take into account the distortion introduced by the government in such a way so as to yield a result that minimizes any further distortions created by the initial distortion.²⁵

²⁵ Interestingly, Ramsey Pricing and the so-called "inverse elasticity rule" is an example of the application of the Theory of Second Best. The presence of a natural monopoly is the distortion to the market that prevents setting prices equal to marginal costs. By applying the inverse elasticity rule, the resulting prices are those that minimize further distortions to levels of consumption of all of the utility's ratepayers.

The initial distortion in this instance is the way in which FERC rules and regulations price pipeline capacity to reflect the average cost of such capacity and not the marginal costs of each incremental slice of such capacity. If the decision maker were to compare average costs to marginal benefits, it may be led to significantly overinvest or underinvest in new pipeline capacity, depending on the relationship between both average and marginal benefits and costs. Accordingly, the “fix” in this case is to compare the average costs (FERC tariffed rates) to the average benefits provided by the pipeline capacity. This fix ensures that the decision maker will never expand capacity to the point beyond which total net benefits turn negative.

Applying this result to the case described above where the Maine purchase of incremental capacity contributes to increasing total new capacity to 1.6 bcf/d results in a total New England wide benefit of approximately \$2.7 billion a year. As shown in Figure 1, this total benefit is achieved through a reduction in the load weighted average energy price in New England falling from \$60.38 to \$39.18 per MWh. Maine’s 8.5% share of this total benefit is just over \$230 million a year.

As in the discussion in the prior section, the market value of the 100 mmcf/d is much lower than the value of that capacity to all New England and Maine electric ratepayers. By purchasing the 100 mmcf/d capacity from Maine, one or more natural gas-fired generators will be able to secure gas supply in the TETCO M3 market at an effective electricity generation cost of \$36.90, but would be able to sell that power at only \$39.18. This differential results in a market value of only \$10 million a year, well below the \$2.7 billion and \$229 million annual values of the full 1.6bcf/d capacity to all New England and Maine electric ratepayers, respectively.

If the Commission applies its 5 to 10 year payback period requirement set forth in its Order in Phase 1 of this case, it should authorize an ECRC for 100 mmcf/d if the net cost of its

100 mmcf/d entitlement to firm capacity is less than \$1.2 billion for the 5 year payback period or \$2.4 billion for the 10 year payback period.²⁶ For illustration purposes, if the per mmbtu tariff rate on a pipeline proposal is \$1.50 for a 15 year period, the annual cost of this capacity will be $\$1.50 \times 365 \times 100,000 \text{ mmbtu/d} = \54.75 million and the total cost over this 15 year term will be \$821 million. Assuming the ECRC is for pipeline capacity with an origination point in the TETCO M3 region, the market value of this entitlement through resale in the secondary market is approximately \$10 million a year, resulting in a total annual benefit to Maine of \$229 million plus \$10 million = \$239 million.²⁷ This translates into a simple payback period of 3.4 years.

If the ECRC is for pipeline capacity on the Kinder Morgan pipeline proposal with an origination in Wright, NY but with direct access to the Marcellus market upstream, the market value through resale in the secondary market of this entitlement is approximately \$61 million a year. This is more than the tariff rate. However, as we noted earlier, the \$1.70/mmbtu price advantage of the Kinder Morgan pipeline proposal will decline over time as new pipeline capacity is developed to move Marcellus gas to markets to the south and west of Pennsylvania. As this occurs, the market value of the ECRC will fall from the \$61 million per year at current pricing levels, but we expect that market conditions will allow it to remain above the \$10 million a year level associated with any pipeline proposal with an origination point in the TETCO M3 region for quite some time.

Finally, we have provided in Figure 4 the same calculations for each 200 mmcf/d tranche of additional pipeline capacity from 0.2 bcf/d to 2.4 bcf/d as described above, assuming

²⁶ This is computed as (\$229 million plus \$10 million) x either 5 years or 10 years.

²⁷ We have treated the market value of the firm capacity entitlement as a benefit to Maine in this calculation and not as an offset to the cost. This subjects the market value benefit to the same uncertainty assumed for the economic value benefit as reflected in the 5 to 10 year payback period criterion established by the Commission.

that Maine's firm capacity entitlement is 100 mmcf/d and has an origination point in the TETCO M3 region. Column [2] of Figure 3 shows that the economic value to Maine electric ratepayers of additional pipeline capacity increases as more capacity is added. However, column [3] shows that the market value of Maine's 100 mmcf/d firm capacity entitlement falls as the total amount of such capacity increases, reflecting the fact that the value of incremental pipeline capacity faces diminishing returns. The net effect of these is shown in column [4]. Given the total 20 year cost of the firm capacity entitlement of \$1.095 billion (see column [5]), the simple payback period falls from 8.7 years to 4.3 years as the total amount of additional pipeline capacity increases.

This model allows for sensitivity testing of key assumptions. For example, if the pipeline tariff rate \$1.00/mmbtu and not \$1.50/mmbtu, the simple payback period falls from 4.6 years to 3.1 years for the 1.6 bcf/d incremental capacity level. Alternatively, a reduction in the pipeline commitment period from 20 years to 15 years results in the simple payback period from 4.6 years to 3.4 years. Further, when these two changes are combined, i.e., a tariff of \$1.00 and commitment of 15 years, the simple payback period falls to 2.3 years.

Figure 4 Simple Payback Periods for a Maine ECRC Assuming Increasing Amounts of Additional Pipeline Capacity into New England

	Economic Value of Capacity		Market Value	Total Value	Maine Cost	
	to New England	to Maine	to Maine	to Maine	of Firm Capacity	Simple
Pipeline Capacity	(\$million)	(\$million)	of Entitlement	of Entitlement	Entitlement	Payback
	[1]	[2]	[3]	[4]	[5]	[6]
	(1)	[1] x 8.5%	(2)	[2]+[3]	(4)	[5]/[4]
Base Case						
+ 0.2 bcf/d Capacity	\$488	\$41	\$84	\$126	\$1,095	8.7
+ 0.4 bcf/d Capacity	\$1,021	\$87	\$66	\$153	\$1,095	7.1
+ 0.6 bcf/d Capacity	\$1,468	\$125	\$51	\$176	\$1,095	6.2
+ 0.8 bcf/d Capacity	\$1,822	\$155	\$39	\$194	\$1,095	5.6
+ 1.0 bcf/d Capacity	\$2,127	\$181	\$29	\$210	\$1,095	5.2
+ 1.2 bcf/d Capacity	\$2,381	\$202	\$20	\$223	\$1,095	4.9
+ 1.4 bcf/d Capacity	\$2,554	\$217	\$15	\$232	\$1,095	4.7
+ 1.6 bcf/d Capacity	\$2,697	\$229	\$10	\$239	\$1,095	4.6
+ 1.8 bcf/d Capacity	\$2,796	\$238	\$6	\$244	\$1,095	4.5
+ 2.0 bcf/d Capacity	\$2,874	\$244	\$4	\$248	\$1,095	4.4
+ 2.2 bcf/d Capacity	\$2,947	\$250	\$1	\$252	\$1,095	4.3
+ 2.4 bcf/d Capacity	\$2,988	\$254	\$0	\$254	\$1,095	4.3
Pipeline Tariff - TETCO M3 to Dracut (\$/mmbtu)			\$1.50			
Maine Share of New England Electric Load			8.5%			
Term of Firm Pipeline Commitment (years)			20			
Notes:						
(1) - Source is Figure 1						
(2) - 4.3 million MWWhs x (Difference in Energy Clearing Price from Figure 1)						