Received
September 18, 2024
WV DEP/Div of Air Quality

Division of Air Quality Permit Application Submittal

Please find attached a permit application for : EGTS - Carnegie Warehouse - XS-2239
[Company Name; Facility Location]

- DAQ Facility ID (for existing facilities only): 103-00006
- Current 45CSR13 and 45CSR30 (Title V) permits associated with this process (for existing facilities only): R30-10300006-2022 (no R13 for this part of the facility)

- Type of NSR Application (check all that apply):
  - ☑ Construction
  - ☐ Modification
  - ☐ Class I Administrative Update
  - ☐ Class II Administrative Update
  - ☐ Relocation
  - ☐ Temporary
  - ☐ Permit Determination

- Type of 45CSR30 (TITLE V) Revision (if any)**:
  - ☐ Title V Initial
  - ☐ Title V Renewal
  - ☐ Administrative Update
  - ☐ Minor Modification
  - ☑ Significant Modification
  - ☐ Off Permit Change

****If any box above is checked, include the Title V revision information as ATTACHMENT S to this application.**

- Payment Type:
  - ☐ Credit Card (Instructions to pay by credit card will be sent in the Application Status email.)
  - ☑ Check (Make checks payable to: WVDEP – Division of Air Quality)
    Mail checks to:
    WVDEP – DAQ – Permitting
    Attn: NSR Permitting Secretary
    601 57th Street, SE
    Charleston, WV 25304

Please wait until DAQ emails you the Facility ID Number and Permit Application Number. Please add these identifiers to your check or cover letter with your check.

- If the permit writer has any questions, please contact (all that apply):
  - ☐ Responsible Official/Authorized Representative
    - Name:
    - Email:
    - Phone Number:
  - ☑ Company Contact
    - Name: Andy Gates
    - Email: andy.gates@bhegts.com
    - Phone Number: (804) 389-1340
  - ☐ Consultant
    - Name:
    - Email:
    - Phone Number:

BHE GT&S, LLC
10700 Energy Way
Glen Allen, VA 23060

September 18, 2024

Laura M. Crowder
Director, Division of Air Quality
West Virginia Department of Environmental Protection
601 57th Street SE
Charleston, WV 25304
DEPAirQualityPermitting@wv.gov

RE: Carnegie Warehouse, Gate Site 427/XS-2239 – Replacement of Pipeline Heater
Facility 103-00006

Dear Ms. Crowder:

Eastern Gas Transmission and Storage, Inc. (EGTS) owns and operates the Carnegie Warehouse site in Wetzel County, West Virginia. This facility utilizes an approximately 10.0 million Btu/hr heat input pipeline heater that will be replaced by a 12.483 million Btu/hr heat input pipeline heater.

Pipeline heaters such as this are essentially boilers, and the replacement unit will be subject to NSPS Subpart Dc since it is greater than 10 million Btu/hr heat input.

The current 10.0 million Btu/hr heat input unit is included in the Hastings Compressor Station Title V permit (R30-10300006-2022), however, it does not have its own Regulation 13 permit. With this application, we are requesting that the new unit be issued its own Regulation 13 permit, similar to the Lewis Wetzel and Mockingbird Hill Compressor Stations that are also included in R30-10300006-2022. We are further requesting that the appropriate terms of this new permit be incorporated into the overall Title V permit. Attachment S has been included with this application.

The required public notice will be published in the *Wetzel Chronicle.* The affidavit of publication will be forwarded to your office upon receipt. The check for the application fee will be mailed separately. We believe this will be a total fee of $2,000: $1,000 base fee + $1,000 NSPS fee.

Please contact Andy Gates at andy.gates@bhegts.com or (804) 389-1340 if you need any additional information or have questions.

Sincerely,

Richard B. Gangle
Director, Environmental Services

Attachment

CARNEGIE WAREHOUSE/XS-2239

APPLICATION FOR NEW REGULATION 13 PERMIT

FACILITY ID 103-00006

Eastern Gas Transmission and Storage, Inc.

10700 Energy Way

Glen Allen, VA 23060

September 2024

Application for a Regulation 13 Permit and Significant Title V Modification for the Construction of a New Natural Gas-Fired Pipeline Heater (Replacing an existing Heater) Eastern Gas Transmission and Storage

Table of Contents

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street, SE
Charleston, WV 25304
(304) 926-0475
www.dep.wv.gov/daq

APPLICATION FOR NSR PERMIT AND TITLE V PERMIT REVISION (OPTIONAL)

PLEASE CHECK ALL THAT APPLY TO **NSR (45CSR13)** (IF KNOWN):

☒ **CONSTRUCTION** ☐ **MODIFICATION** ☐ **RELOCATION**
☐ **CLASS I ADMINISTRATIVE UPDATE** ☐ **TEMPORARY**
☐ **CLASS II ADMINISTRATIVE UPDATE** ☐ **AFTER-THE-FACT**

PLEASE CHECK TYPE OF **45CSR30 (TITLE V)** REVISION (IF ANY):

☐ **ADMINISTRATIVE AMENDMENT** ☐ **MINOR MODIFICATION**
☒ **SIGNIFICANT MODIFICATION**

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS **ATTACHMENT S** TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant *(as registered with the WV Secretary of State's Office):*
Eastern Gas Transmission and Storage, Inc.

2. Federal Employer ID No. ***(FEIN):***
550629203

3. Name of facility *(if different from above):*
Carnegie Warehouse R31 Heater

4. The applicant is the:
☐ **OWNER** ☐ **OPERATOR** ☒ **BOTH**

5A. Applicant's mailing address:
925 White Oaks Blvd.
Bridgeport, WV 26330

5B. Facility's present physical address:
Shortline Road
Pine Grove, WV

6. **West Virginia Business Registration.** Is the applicant a resident of the State of West Virginia? ☒ **YES** ☐ **NO**

- If **YES,** provide a copy of the **Certificate of Incorporation/Organization/Limited Partnership** (one page) including any name change amendments or other Business Registration Certificate as **Attachment A.**
- If **NO,** provide a copy of the **Certificate of Authority/Authority of L.L.C./Registration** (one page) including any name change amendments or other Business Certificate as **Attachment A.**

7. If applicant is a subsidiary corporation, please provide the name of parent corporation:

8. Does the applicant own, lease, have an option to buy or otherwise have control of the *proposed site?* ☒ **YES** ☐ **NO**

- If **YES,** please explain: Own

- If **NO,** you are not eligible for a permit for this source.

9. Type of plant or facility (stationary source) to be **constructed, modified, relocated, administratively updated** or **temporarily permitted** (e.g., coal preparation plant, primary crusher, etc.): Water bath pipeline heater (boiler) replacing existing unit

10. North American Industry Classification System **(NAICS)** code for the facility:
486210

11A. DAQ Plant ID No. (for existing facilities only):
103-00006

11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only):
R30-10300006-2022
Note: This unit is not currently covered by any R13 permit.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

12A.

- For **Modifications, Administrative Updates** or **Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- For **Construction** or **Relocation permits,** please provide directions to the *proposed new site location* from the nearest state road. Include a **MAP** as **Attachment B**.

Take Route 20 north from Clarksburg approximately 37 miles. The facility is on the left (south) side of the road.

12.B. New site address (if applicable):	12C. Nearest city or town: Pine Grove	12D. County: Wetzel
12.E. UTM Northing (KM): 4,378.03	12F. UTM Easting (KM): 528.05	12G. UTM Zone: 17

13. Briefly describe the proposed change(s) at the facility:
Installation of replacement water bath pipeline heater (boiler)

14A. Provide the date of anticipated installation or change: 03/01/2025 – If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: / /	14B. Date of anticipated Start-Up if a permit is granted: 10/01/2025

14C. Provide a **Schedule** of the planned **Installation** of/**Change** to and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
Hours Per Day 24 Days Per Week 7 Weeks Per Year 52

16. Is demolition or physical renovation at an existing facility involved? ☒ **YES** ☐ **NO**

17**. Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (RMP)** to U. S. EPA Region III.

18**. Regulatory Discussion.** List all Federal and State air pollution control regulations that you believe are applicable to the proposed process *(if known).* A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance *(if known).* Provide this information as **Attachment D.**

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

20. Include a **Table of Contents** as the first page of your application package.

21. Provide a **Plot Plan,** e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to ***Plot Plan Guidance***) **.**
– Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).

22. Provide a **Detailed Process Flow Diagram(s)** showing each proposed or modified emissions unit, emission point and control device as **Attachment F.**

23. Provide a **Process Description** as **Attachment G.**
– Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H.**
– For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I.**

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J.**

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K.**

28. Check all applicable **Emissions Unit Data Sheets** listed below:

☐ Bulk Liquid Transfer Operations	☐ Haul Road Emissions	☐ Quarry
☐ Chemical Processes	☐ Hot Mix Asphalt Plant	☐ Solid Materials Sizing, Handling and Storage Facilities
☐ Concrete Batch Plant	☐ Incinerator	☐ Storage Tanks
☐ Grey Iron and Steel Foundry	☒ Indirect Heat Exchanger	
☐ General Emission Unit, specify		

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L.**

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

☐ Absorption Systems	☐ Baghouse	☐ Flare (Thermal Oxidizer)
☐ Adsorption Systems	☐ Condenser	☐ Mechanical Collector
☐ Afterburner	☐ Electrostatic Precipitator	☐ Wet Collecting System

☐ Other Collectors, specify

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M.**

30. Provide all **Supporting Emissions Calculations** as **Attachment N,** or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O.**

- Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and ***Example Legal Advertisement*** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33**. Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

☐ **YES** ☒ **NO**

- If **YES,** identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's ***"Precautionary Notice – Claims of Confidentiality"*** guidance found in the ***General Instructions*** as **Attachment Q.**

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

☐ Authority of Corporation or Other Business Entity	☐ Authority of Partnership
☐ Authority of Governmental Agency	☐ Authority of Limited Partnership

Submit completed and signed **Authority Form** as **Attachment R.**

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

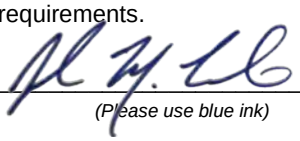
35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned ☒ **Responsible Official** / ☐ **Authorized Representative,** hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE  *(Please use blue ink)* DATE: 9/10/2024 *(Please use blue ink)*

35B. Printed name of signee: John M. Lamb		35C. Title: Vice President, Eastern Pipeline Operations
35D. E-mail: John.m.lamb@bhegts.com	36E. Phone: 681-842-3550	36F. FAX: NA
36A. Printed name of contact person (if different from above): Andy Gates		36B. Title: Sr Environmental Specialist
36C. E-mail: andy.gates@bhegts.com	36D. Phone: 804-389-1340	36E. FAX: NA

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- ☒ **Attachment A: Business Certificate**
- ☒ **Attachment B: Map(s)**
- ☒ **Attachment C: Installation and Start Up Schedule**
- ☒ **Attachment D: Regulatory Discussion**
- ☒ **Attachment E: Plot Plan**
- ☒ **Attachment F: Detailed Process Flow Diagram(s)**
- ☒ **Attachment G: Process Description**
- ☐ **Attachment H: Material Safety Data Sheets (MSDS)**
- ☒ **Attachment I: Emission Units Table**
- ☒ **Attachment J: Emission Points Data Summary Sheet**
- ☐ **Attachment K: Fugitive Emissions Data Summary Sheet**
- ☒ **Attachment L: Emissions Unit Data Sheet(s)**
- ☐ **Attachment M: Air Pollution Control Device Sheet(s)**
- ☒ **Attachment N: Supporting Emissions Calculations**
- ☐ **Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans**
- ☒ **Attachment P: Public Notice**
- ☐ **Attachment Q: Business Confidential Claims**
- ☐ **Attachment R: Authority Forms**
- ☒ **Attachment S: Title V Permit Revision Information**
- ☒ **Application Fee**

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- ☐ ***Forward 1 copy of the application to the Title V Permitting Group and:***
- ☐ ***For Title V Administrative Amendments:***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit,***
- ☐ ***For Title V Minor Modifications:***
  - ☐ ***Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit.***
- ☐ ***For Title V Significant Modifications processed in parallel with NSR Permit revision:***
  - ☐ ***NSR permit writer should notify a Title V permit writer of draft permit,***
  - ☐ ***Public notice should reference both 45CSR13 and Title V permits,***
  - ☐ ***EPA has 45 day review period of a draft permit.***

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

Attachment A

Current Business Certificate

State of West Virginia

Certificate

I, Mac Warner, Secretary of State,
of the State of West Virginia, hereby certify that

Articles of Amendment to the Articles of Incorporation of

DOMINION ENERGY TRANSMISSION, INC.

Are filed in my office as required by the provisions of the West Virginia Code and are found to confirm to law.

Therefore, I issue this

CERTIFICATE OF AMENDMENT TO THE

CERTIFICATE OF AUTHORITY

Changing the name of the organization to

EASTERN GAS TRANSMISSION AND STORAGE, INC.

Given under my hand and
the Great Seal of West Virginia
on this day of

December 07, 2020

Mac Warner

Secretary of State

Attachment B

Map

Carnegie Warehouse/XS-2239 Heater

Hastings Extraction

Hastings Compressor Station

Lewis Wetzel Compressor Station

Mockingbird Hill Compressor Station

Carnegie Warehouse XS-2239 Heater

Hastings Extraction Slug Catcher

Smithfield Hwy

Mockingbird Hill Rd

Lower Run

Upper Run

20

20/12

20/4

Google Earth

Image © 2024 Airbus

N

1000 ft

Attachment C

Schedule

ATTACHMENT C

Schedule of Planned Installation and Start-Up

Unit	Installation Schedule	Startup Schedule
Heater	03/01/2025	10/01/2025

Note: This is a tentative schedule and dependent upon the receipt of the permit.

Attachment D

Regulatory Discussion

Regulatory Discussion

This heater is a natural gas-fired indirect heater that heats natural gas in the pipeline at the metering and regulation facility. It is a simple indirect heat exchanger.

New Source Performance Standards (NSPS) Subpart Dc

The natural gas fired TERI 12.483 MMBtu/hr pipeline heater is subject to this Subpart, as it meets the NSPS Dc definition of "steam generating unit." The only applicable requirements are initial notifications under 40 CFR §60.7 and to keep records of monthly fuel usage (40 CFR §60c(g)(2)). No stack testing or add-on air emissions controls are required.

National Emission Standards for Hazardous Air Pollutants (NESHAP):

Subpart DDDDD

The natural gas fired TERI 12.483 MMBtu/hr pipeline heater is not subject to this Subpart as this location is not a major source of HAPs.

Subpart JJJJJJ

The natural gas fired TERI 12.483 MMBtu/hr pipeline heater is not subject to this Subpart as gas-fired boilers are not subject to this Subpart and to any requirements in this Subpart (40 CFR §63.11195(e)).

West Virginia Regulations (Regulations 2, 2A, 10, and 10A)

Regulation 2

This unit is a Type "b" fuel burning unit subject to Regulation 2. §45-2-3 requires compliance with a 10% opacity limitation based on a 6-minute block average and utilizing USEPA Method 9. §45-2-4 establishes a particulate matter limitation as follows:

Limitation (lbs PM/hr) = 0.09 X total design heat input (§45-2-4.1.b.)

For this unit, this calculates a limit of 1.12 pounds PM per hour (0.09 X 12.483 mmBtu/hr).

As shown in Attachment N, this unit is not expected to approach that limit. The calculated maximum emissions using AP-42 are approximately 0.09 pounds PM per hour.

The operating schedule and the quantity and quality of fuel consumed is required to recorded and maintained in accordance with §45-2-8.3.c. and d.

As a natural gas-only facility, this unit is exempt from periodic opacity testing and periodic particulate matter testing (§45-2-8.4.b.). The Director of the Division of Environmental Protection may require stack testing.

Regulation 2A

Regulation 2A is the interpretive rule for compliance with Regulation 2. Regulation 2A generally provides for periodic particulate matter testing and opacity compliance as well as recordkeeping and reporting requirements.

§45-2A-3.1.a. exempts units (such as this unit) that combust only natural gas from the periodic opacity and particulate matter testing (Section 5 of Regulation 2A) and from the development of an opacity monitoring plan (Section 6 of Regulation 2A).

§45-2A-7.1.a.1. provides that units which only burn pipeline quality natural gas (such as this unit) keep records of the date and time of startup and shutdown, and the quantity of fuel consumed on a monthly basis. These records are to be maintained for five years following the date that the record is generated (§45-2A-7.1.b.).

Regulation 10

Regulation 10 contains the statewide emission limitations for sulfur dioxide (SO2). Wetzel County is a Priority III location according to this regulation. As a Type “b” fuel burning unit, this unit is subject to a limitation as follows:

Limitation (lbs SO2/hr) = 3.2 X total design heat input (§45-10-3.3.f.)

For this unit, this calculates a limit of 39.95 pounds SO2 per hour (3.2 X 12.483 mmBtu/hr).

As shown in Attachment N, this unit is not expected to approach that limit. The calculated maximum emissions using AP-42 are approximately 0.01 pounds SO2 per hour.

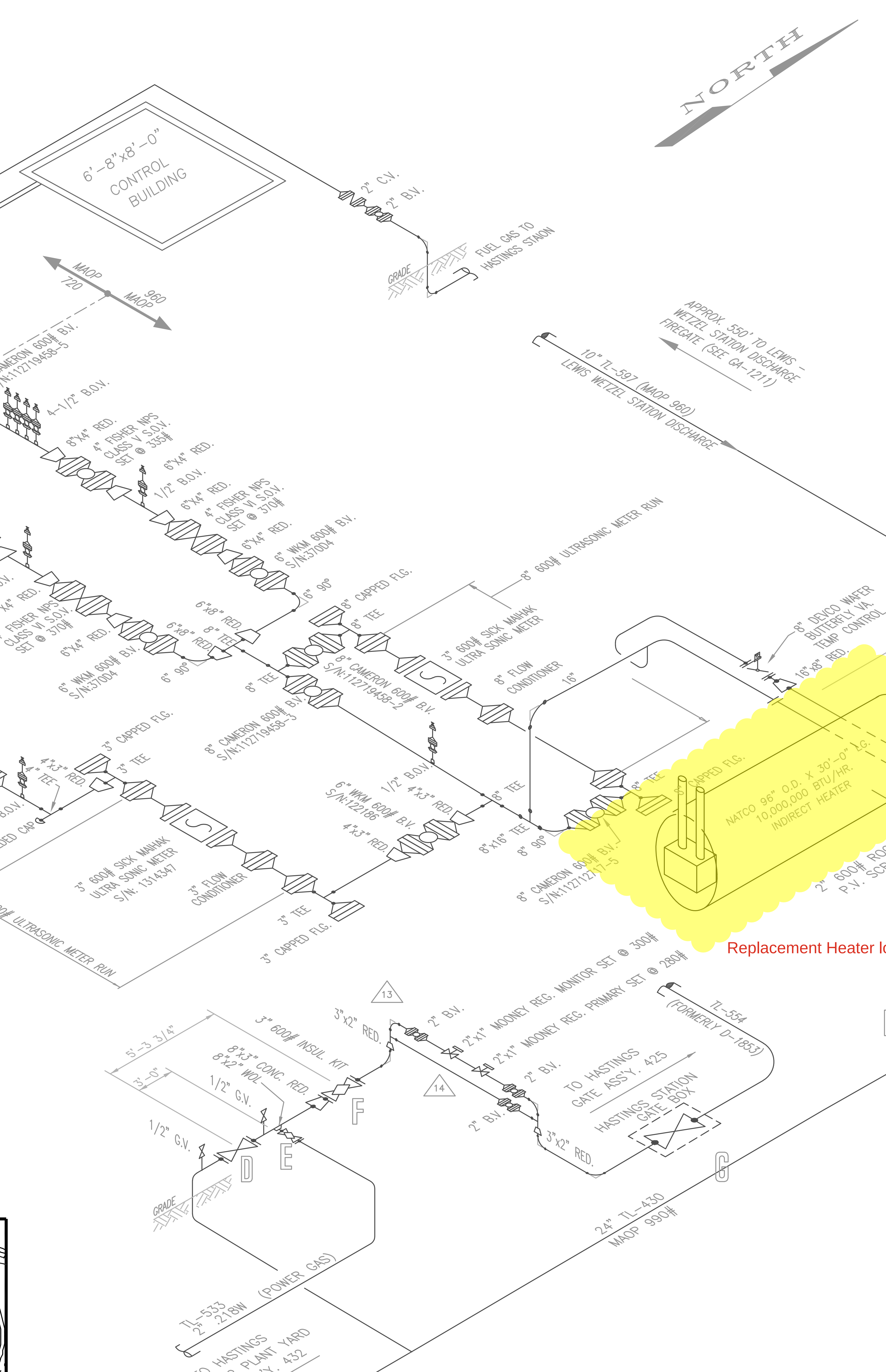
As a gas-fired unit, this unit is exempt from the testing, monitoring, recordkeeping, and reporting section (§45-10-8) in accordance with §45-10-10.3.

Regulation 10A

Regulation 10A is the interpretive rule for compliance with Regulation 10. Natural gas fired units are not subject to the interpretive rule in accordance with §45-10A-3.1.b.

Attachment E

Plot Plan



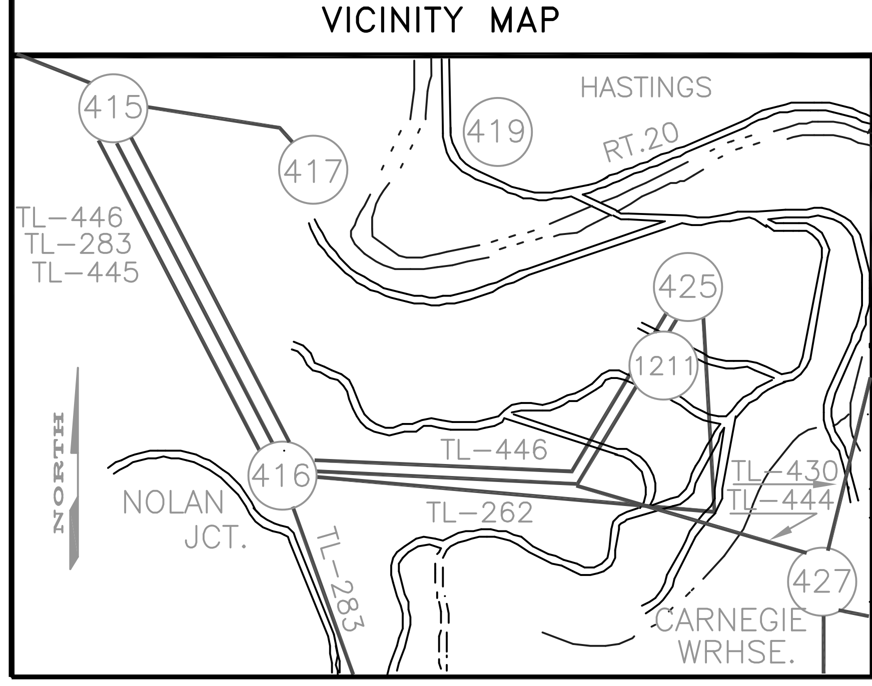
*NOTE: PRIOR TO CLOSING GATES "D" OR "E", NOTIFY HASTINGS EXTRACTION OPERATIONS.

* – WITH HIGH PRESSURE SHUT–DOWN DEVICE

GATE TABLE

LTR	VAZ	ANS	MFR	TYP	ECN	OPM	OTP	OPE
A	20"	300#	M&J	G.V.	W.E.	LIMITORQUE	GAS	MANUAL
B	16"	600#	ROCKWELL	G.V.	FLGD	SHAFER	GAS	MANUAL
C	24"	600#	WKM	G.V.	WxF	EIM	GAS	MANUAL
D	8"	600#	ORBIT	G.V.	FLGD	–	MAN	–
E	2"	600#	ROCKWELL	P.V.	WxF	–	MAN	–
F	3"	600#	ROCKWELL	P.V.	FLGD	–	MAN	–
G	3"	–	–	–	–	–	–	–
H	8"	600#	ROCKWELL	P.V.	WxF	–	MAN	BYPASS BLOWOFF
I	8"	600#	ROCKWELL	P.V.	WxF	–	MAN	BYPASS BLOWOFF
J	4"	300#	ROCKWELL	P.V.	WxF	–	MAN	BLOWOFF
K	10"	600#	CAMERON	B.V.	WxW	SHAFER	PNEU	BLOCK GATE
L	4"	600#	FLOWSERVE	P.V.	WxF	–	MAN.	BLOWOFF
M	4"	600#	FLOWSERVE	P.V.	WxF	–	MAN.	BLOWOFF

VICINITY MAP



SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
16	4/9/2021	CDS	LABELED TL-533		
15	4/16/2018	CDS	UPDATED TITLE BLOCK		
14	01/30/17	DHH	REPLACED REGULATORS ON FUEL GAS FEED OFF OF TL-430	69448.1.2	
13	04/20/16	DHH	ADDED 2" FUEL GAS REGULATION AS PER FIELD VISIT		
12	06/22/15	ACA	REPLACE METER / REGULATOR RUNS	58659.1.2	

EASTERN GAS TRANSMISSION AND STORAGE

Eastern Gas Transmission and Storage, Inc.
925 White Oaks Blvd., Bridgeport, WV 26330
(681) 842-3000

TITLE: CARNEGIE WAREHOUSE (XS–2239)

DRAWN: LRN	DATE: 3/78	COUNTY: WETZEL	
QMAP: Q116138		AREAS: SOUTHERN	
FACET: FF4170209		BURCH RIDGE	
911 ADDRESS:		GATE NO. GA427	REV. 16

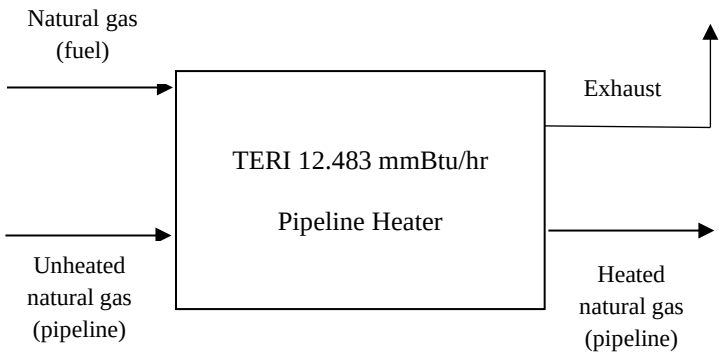
GA427.dwg 06/22/15 02:22 ACA

Attachment F

Detailed Process Flow Diagram

Attachment F

Carnegie Warehouse
Process Flow Diagram
Pipeline Heater



Attachment G

Process Description

PROCESS DESCRIPTION

This heater is a natural gas-fired indirect heater that heats natural gas in the pipeline at the metering and regulation facility. It is a simple indirect heat exchanger.

Attachment I

Emission Units Table

Attachment I

Emission Units Table

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device[4]
H1	H1	TERI Pipeline Heater	2025	12.483 mmBtu/hr	New 2025	None
HTR1	HTR1	Natco Heater	1977	10.0 mmBtu/hr	Removal 2025	None

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[4] For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

Attachment J

Emission Points Data Summary Sheet

Attachment J
EMISSION POINTS DATA SUMMARY SHEET

Table 1: Emissions Data																
Emission Point ID No. *(Must match Emission Units Table & Plot Plan)*	Emission Point Type[1]	Emission Unit Vented Through This Point *(Must match Emission Units Table & Plot Plan)*		Air Pollution Control Device *(Must match Emission Units Table & Plot Plan)*		Vent Time for Emission Unit *(chemical processes only)*		All Regulated Pollutants - Chemical Name/CAS[3] *(Speciate VOCs & HAPS)*	Maximum Potential Uncontrolled Emissions [4]		Maximum Potential Controlled Emissions [5]		Emission Form or Phase *(At exit conditions, Solid, Liquid or Gas/Vapor)*	Est. Method Used [6]	Emission Concentration [7] (ppmv or mg/m^4)
		ID No.	Source	ID No.	Device Type	Short Term[2]	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr			
H1	Vertical Stack	H1	Pipeline heater	N/A	N/A	N/A	N/A	See Attachment N					Gas	AP-42	N/A

The EMISSION POINTS DATA SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncaptured process emission unit emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY SHEET for fugitive emission activities.

[1] Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.

[2] Indicate by "C" if venting is continuous. Otherwise, specify the average short-term venting rate with units, for intermittent venting (ie., 15 min/hr). Indicate as many rates as needed to clarify frequency of venting (e.g., 5 min/day, 2 days/wk).

[3] List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. **LIST** Acids, CO, CS_2, VOCs, H_2S, Inorganics, Lead, Organics, O_3, NO, NO_2, SO_2, SO_3, all applicable Greenhouse Gases (including CO_2 and methane), etc. **DO NOT LIST** H_2, H_2O, N_2, O_2, and Noble Gases.

[4] Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

[5] Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

[6] Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).

[7] Provide for all pollutant emissions. Typically, the units of parts per million by volume (ppmv) are used. If the emission is a mineral acid (sulfuric, nitric, hydrochloric or phosphoric) use units of milligram per dry cubic meter (mg/m^3) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO_2, use units of ppmv (See 45CSR10).

Attachment J
EMISSION POINTS DATA SUMMARY SHEET

Table 2: Release Parameter Data								
Emission Point ID No. *(Must match Emission Units Table)*	Inner Diameter (ft.)	Exit Gas			Emission Point Elevation (ft)		UTM Coordinates (km)	
		Temp. (°F)	Volumetric Flow [1] (acfm) *at operating conditions*	Velocity (fps)	Ground Level *(Height above mean sea level)*	Stack Height [2] *(Release height of emissions above ground level)*	Northing	Easting
H1	20”	TBD	TBD	TBD	Approx. 720	14	4377.68	528.33

[1] Give at operating conditions. Include inerts.
[2] Release height of emissions above ground level.

Attachment L

Emissions Units Data Summary Sheets

Attachment L
Emission Unit Data Sheet
(INDIRECT HEAT EXCHANGER)

Control Device ID No. (must match List Form): NA

Equipment Information

1. Manufacturer: TERI	2. Model No. Custom Serial No.
3. Number of units: 1	4. Use Heating of pipeline natural gas
5. Rated Boiler Horsepower: NA hp	6. Boiler Serial No.: NA
7. Date constructed: 2025	8. Date of last modification and explain: NA
9. Maximum design heat input per unit: 12.483 ×10⁶ BTU/hr	10. Peak heat input per unit: 12.483 ×10⁶ BTU/hr
11. Steam produced at maximum design output: NA LB/hr psig	12. Projected Operating Schedule: Hours/Day 24 Days/Week 7 Weeks/Year 52
13. Type of firing equipment to be used: ☐ Pulverized coal ☐ Spreader stoker ☐ Oil burners ☒ Natural Gas Burner ☐ Others, specify	14. Proposed type of burners and orientation: ☐ Vertical ☒ Front Wall ☐ Opposed ☐ Tangential ☐ Others, specify
15. Type of draft: ☐ Forced ☐ Induced **NA, natural draft**	16. Percent of ash retained in furnace: NA %
17. Will flyash be reinjected? ☐ Yes ☐ No **NA**	18. Percent of carbon in flyash: NA %

Stack or Vent Data

19. Inside diameter or dimensions: 20 in. ~~ft.~~	20. Gas exit temperature: TBD °F
21. Height: 14 ft.	22. Stack serves: ☒ This equipment only ☐ Other equipment also (submit type and rating of all other equipment exhausted through this stack or vent)
23. Gas flow rate: TBD ft³/min	
24. Estimated percent of moisture: TBD %	

Fuel Requirements

25.	Type	Fuel Oil No.	Natural Gas	Gas (other, specify)	Coal, Type:	Other:
	Quantity (at Design Output)	gph@60°F	12,483 ft^3/hr	ft^3/hr	TPH	
	Annually	$\times 10^3$ gal	0.0124 $\times 10^6$ ft^3/hr	$\times 10^6$ ft^3/hr	tons	
	Sulfur	Maximum: wt. % Average: wt. %	Pipeline quality gr/100 ft^3	gr/100 ft^3	Maximum: wt. %	
	Ash (%)		Neg.		Maximum	
	BTU Content	BTU/Gal. Lbs/Gal.@60°F	1,000 BTU/ft^3	BTU/ft^3	BTU/lb	
	Source		Pipeline			
	Supplier		Self-supplied			
	Halogens (Yes/No)		No			
	List and Identify Metals		NA			

26. Gas burner mode of control:
☐ Manual ☐ Automatic hi-low
☐ Automatic full modulation ☒ Automatic on-off

27. Gas burner manufacture: TERI

28. Oil burner manufacture: NA

29. If fuel oil is used, how is it atomized? ☐ Oil Pressure ☐ Steam Pressure ☐ Compressed Air ☐ Rotary Cup ☐ Other, specify

30. Fuel oil preheated: ☐ Yes ☐ No

31. If yes, indicate temperature: °F

32. Specify the calculated theoretical air requirements for combustion of the fuel or mixture of fuels described above actual cubic feet (ACF) per unit of fuel:
@ °F, PSIA, % moisture

33. Emission rate at rated capacity: See Attachment N lb/hr

34. Percent excess air actually required for combustion of the fuel described: NA %

Coal Characteristics

35. Seams:

36. Proximate analysis (dry basis): % of Fixed Carbon: % of Sulfur:
% of Moisture: % of Volatile Matter:
% of Ash:

Emissions Stream

37. What quantities of pollutants will be emitted from the boiler before controls?

Pollutant	Pounds per Hour lb/hr	grain/ACF	@ °F	PSIA
CO	See Attachment N for all emissions data			
Hydrocarbons				
NO_x				
Pb				
PM_{10}				
SO_2				
VOCs				
Other (specify)				

38. What quantities of pollutants will be emitted from the boiler after controls?

Pollutant	Pounds per Hour lb/hr	grain/ACF	@ °F	PSIA
CO	No add-on air pollution controls; see Attachment N			
Hydrocarbons				
NO_x				
Pb				
PM_{10}				
SO_2				
VOCs				
Other (specify)				

39. How will waste material from the process and control equipment be disposed of?
NA; no waste expected

40. Have you completed an *Air Pollution Control Device Sheet(s)* for the control(s) used on this Emission Unit. NA

41. Have you included the ***air pollution rates*** on the Emissions Points Data Summary Sheet? Yes

42. **Proposed Monitoring, Recordkeeping, Reporting, and Testing**
Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING PLAN: Please list (1) describe the process parameters and how they were chosen (2) the ranges and how they were established for monitoring to demonstrate compliance with the operation of this process equipment operation or air pollution control device.
See Attachment D

TESTING PLAN: Please describe any proposed emissions testing for this process equipment or air pollution control device.
See Attachment D

RECORDKEEPING: Please describe the proposed recordkeeping that will accompany the monitoring.
See Attachment D

REPORTING: Please describe the proposed frequency of reporting of the recordkeeping.
See Attachment D

43. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.
NA

An OGI Brand

INDIRECT FIRED HEATER SPECIFICATION SHEET

Customer Name:	BHE GT&S	Date	14-Dec-23
Address:		Customer Ref	TBD
City/State/Zip		Customer Project No	TERI 10000
Location	Pine Grove, WV	Quote Number	Q#00544
Station	R31 Heater at Carnegi Warehouser XS-2239	Operating Pressure	Data: 990Psig/40°F To 335Psig/45°F
Purchasing Agent	Jeff Hull		
Engineer:	Jeremy VanderTook		

BASIC HEATER DATA				Remarks
Outside Diameter (Inches)	116.00	Heater Weight (Dry Lbs)	63910 lbs (Approx.)	**Approx. Burner Input: 12.483 MMBtuh**
Length (Ft)	30.00	Heater Weight (Wet Lbs)	176600 lbs (Approx.)	
Nominal Rating (MM Btu/Hr)	8.500	Bath Media Volume (Gal)	11404 gal (Approx.)	

PROCESS CONDITIONS		INLET	OUTLET	REMARKS
Type of Fluid		Natural Gas	Natural Gas	50/50 ethylene glycol
Total fluid Entering	SCFH	6,666,667		
Vapor	lb/hr	304,611	304,611	
Liquid	lb/hr			
Steam	lb/hr			
Non-condensable	lb/hr			
Fluid Vaporized or Cond	lb/hr			
Liquid Density (In/Out)	lb/ft3	N.A.	N.A.	
Liquid Viscosity	Cp	N.A.	N.A.	
Liquid Specific Heat	Btu/lb-F	N.A.	N.A.	
Liquid Thermal Cond	Btu/hr-ft-F	N.A.	N.A.	
Vapor Molecular Wt	lbs/lbs Mol	17.340		
Vapor Density	lbs/ft3	3.531	3.122	
Vapor Viscosity	Cp	0.012	0.013	
Vapor Specific Heat	Btu/lb-F	0.720	0.685	
Vapor Thermal Cond.	Btu/hr-ft-F	0.022	0.023	
Temperature (In/Out)	**F**	40	80	**After Regulation:** 45
Operating Pressure	**Psig**	990	986	**After Regulation:** 335
Velocity	ft/sec	Coil 34.07 / Header 38.41		
Pressure Drop (Calc/Allowed)	**Psid**	**4.23 / 5**		
Fouling Resistance	hr-ft2-F/Btu			

THERMAL DATA			REMARKS	
Heat Transferred	**Btu/hr**	8,488,300		
Transfer Rate (Fouled/Clean)	Btu/hr-ft2-F	75.54	**Operating Bath Temperature**	152
Temperature Diff (LMTD)		90.47		

PROCESS COIL DATA					
Design Pressure	Psig	1400	Fabrication Code	ASME Sec 8 Div 1	
Test Pressure	Psig	2100	Radiography (Percent)	100	
Design Temperature	F	-20 to 200 °F	National Board Stamped	Yes	
Number of Pass/Path	Units	4			
Number of Paths	Units	9	Connections (Size/Rating)	Nominal	
Total Number of Tubes	Units	36	Inlet	12-in ANSI 900# RFWN	
Straight Tube Length	Ft	28.5	Outlet	12-in ANSI 900# RFWN	
Heat Flux	Btu/hr-ft2	6834	Inlet and Outlet header Thk	0.687	In
Pipe Size	Inches **OD**	4.5	Header Velocity	38.40	ft/sec
Pipe Wall Thickness	Inches	0.237	Surface Area Actual	1242.0	Ft2
Corrosion Allowance	Inches	None	Return Bend Type	SR	

HEATER DATA			Remarks and/or Other Data		
Design Code		API 12K			
Shell Diameter	Inches	116	Treq per 49 CFR, Part 192	0.225	in
Shell Length	ft	30	Treq per ASME	0.176	in
Shell (Thk)	Inches	3/8			
Firetube Diameter	Inches **OD**	24			
Number of Firetubes		3	Pipe Wall Thickness	0.237	in
Firetube Length	ft	29.75	Selected Pipe Tmin (12.5% mill Tol)	0.207	in
Firetube (Material/Thk)	Inches	0.25			
Firetube Heat Density	Btu/hr-in2	9497	Coil Material	SA106B	
Firetube Flux Rate	Btu/hr-ft2	7821	Shell Material	SA36	
Stack Diameter	In	20	Firetube Material	SA53B	
Stack Height	Ft	14			
Expansion Tank Diameter	in	36			
Expansion Tank Length	ft	22.5			
Percent of Net Shell Vol.	%	10.1%			

Attachment N

Supporting Emissions Calculations

Replacement Warehouse Heater
Eastern Gas Transmission and Storage
Carnegie Warehouse

(NEW REPLACEMENT BOILER/HEATER)

Input Data:	Replacement Heater	
Design Class:	Natural Gas-Fired	
Number of Heaters:	1	
Fuel Input:	12.483	MMBtu/hr
Heating Value of Natural Gas:	1,000	Btu/scf
Fuel Input:	0.012483	MMscf/hr
	109.35	MMscf/yr
Maximum Hours of Operation:	8,760	hrs/yr

Emission Calculations (Each)

Pollutant	Emission Factor		Potential Emissions (lb/hr)	Potential Emissions (tons/yr)
PM	7.6	lb/MMscf	0.09	0.42
PM-10	7.6	lb/MMscf	0.09	0.42
SO_2	0.6	lb/MMscf	0.01	0.03
CO	84	lb/MMscf	1.05	4.59
NO_X	100	lb/MMscf	1.25	5.47
VOC	5.5	lb/MMscf	0.07	0.30
2-Methylnaphthalene	2.40E-05	lb/MMscf	2.99592E-07	1.31221E-06
3-Methylchloranthrene	1.80E-06	lb/MMscf	2.24694E-08	9.8416E-08
7,12-Dimethylbenz(a)anthracene	1.60E-05	lb/MMscf	1.99728E-07	8.74809E-07
Acenaphthene	1.80E-06	lb/MMscf	2.24694E-08	9.8416E-08
Acenaphthylene	1.80E-06	lb/MMscf	2.24694E-08	9.8416E-08
Anthracene	2.40E-06	lb/MMscf	2.99592E-08	1.31221E-07
Benz(a)anthracene	1.80E-06	lb/MMscf	2.24694E-08	9.8416E-08
Benzene	2.10E-03	lb/MMscf	2.62143E-05	0.000114819
Benzo(a)pyrene	1.20E-06	lb/MMscf	1.49796E-08	6.56106E-08
Benzo(b)fluoranthene	1.80E-06	lb/MMscf	2.24694E-08	9.8416E-08
Benzo(g,h,i)perylene	1.20E-06	lb/MMscf	1.49796E-08	6.56106E-08
Benzo(k)fluoranthene	1.80E-06	lb/MMscf	2.24694E-08	9.8416E-08
Chrysene	1.80E-06	lb/MMscf	2.24694E-08	9.8416E-08
Dibenzo(a,h)anthracene	1.20E-06	lb/MMscf	1.49796E-08	6.56106E-08
Dichlorobenzene	1.20E-03	lb/MMscf	1.49796E-05	6.56106E-05
Fluoranthene	3.00E-06	lb/MMscf	3.7449E-08	1.64027E-07
Fluorene	2.80E-06	lb/MMscf	3.49524E-08	1.53092E-07
Formaldehyde	7.50E-02	lb/MMscf	0.000936225	0.004100666
Hexane	1.80E+00	lb/MMscf	0.0224694	0.098415972
Indeno(1,2,3-cd)pyrene	1.80E-06	lb/MMscf	2.24694E-08	9.8416E-08
Naphthalene	6.10E-04	lb/MMscf	7.61463E-06	3.33521E-05
Phenanathrene	1.70E-05	lb/MMscf	2.12211E-07	9.29484E-07
Pyrene	5.00E-06	lb/MMscf	6.2415E-08	2.73378E-07
Toluene	3.40E-03	lb/MMscf	4.24422E-05	0.000185897
TOTAL HAP:			**0.023**	**0.103**

All emission factors from AP-42, Section 1.4, Natural Gas Combustion, 7/98

Replacement Warehouse Heater
Eastern Gas Transmission and Storage
Carnegie Warehouse

(CURRENT BOILER/HEATER TO BE REPLACED)

Input Data:	NA	
Design Class:	NA	
Number of Heaters:	NA	
Fuel Input:	10.000	MMBtu/hr
Heating Value of Natural Gas:	1,000	Btu/scf
Fuel Input:	0.010000	MMscf/hr
	87.60	MMscf/yr
Maximum Hours of Operation:	8,760	hrs/yr

Emission Calculations (Each)

Pollutant	Emission Factor		Potential Emissions (lb/hr)	Potential Emissions (tons/yr)
PM	7.6	lb/MMscf	0.08	0.33
PM-10	7.6	lb/MMscf	0.08	0.33
SO_2	0.6	lb/MMscf	0.01	0.03
CO	84	lb/MMscf	0.84	3.68
NO_X	100	lb/MMscf	1.00	4.38
VOC	5.5	lb/MMscf	0.06	0.24
2-Methylnaphthalene	2.40E-05	lb/MMscf	0.00000024	1.0512E-06
3-Methylchloranthrene	1.80E-06	lb/MMscf	0.000000018	7.884E-08
7,12-Dimethylbenz(a)anthracene	1.60E-05	lb/MMscf	0.00000016	7.008E-07
Acenaphthene	1.80E-06	lb/MMscf	0.000000018	7.884E-08
Acenaphthylene	1.80E-06	lb/MMscf	0.000000018	7.884E-08
Anthracene	2.40E-06	lb/MMscf	0.000000024	1.0512E-07
Benz(a)anthracene	1.80E-06	lb/MMscf	0.000000018	7.884E-08
Benzene	2.10E-03	lb/MMscf	0.000021	0.00009198
Benzo(a)pyrene	1.20E-06	lb/MMscf	0.000000012	5.256E-08
Benzo(b)fluoranthene	1.80E-06	lb/MMscf	0.000000018	7.884E-08
Benzo(g,h,i)perylene	1.20E-06	lb/MMscf	0.000000012	5.256E-08
Benzo(k)fluoranthene	1.80E-06	lb/MMscf	0.000000018	7.884E-08
Chrysene	1.80E-06	lb/MMscf	0.000000018	7.884E-08
Dibenzo(a,h)anthracene	1.20E-06	lb/MMscf	0.000000012	5.256E-08
Dichlorobenzene	1.20E-03	lb/MMscf	0.000012	0.00005256
Fluoranthene	3.00E-06	lb/MMscf	0.00000003	1.314E-07
Fluorene	2.80E-06	lb/MMscf	0.000000028	1.2264E-07
Formaldehyde	7.50E-02	lb/MMscf	0.00075	0.003285
Hexane	1.80E+00	lb/MMscf	0.018	0.07884
Indeno(1,2,3-cd)pyrene	1.80E-06	lb/MMscf	0.000000018	7.884E-08
Naphthalene	6.10E-04	lb/MMscf	0.0000061	0.000026718
Phenanathrene	1.70E-05	lb/MMscf	0.00000017	7.446E-07
Pyrene	5.00E-06	lb/MMscf	0.00000005	0.000000219
Toluene	3.40E-03	lb/MMscf	0.000034	0.00014892
TOTAL HAP:			**0.019**	**0.082**

All emission factors from AP-42, Section 1.4, Natural Gas Combustion, 7/98

Replacement Warehouse Heater
Eastern Gas Transmission and Storage
Carnegie Warehouse

Emissions Increases (Replacement minus Current Potential to Emit)

Potential Emissions Increases from New Boiler

Pollutant	Potential Emissions Increase (lb/hr)	(tons/yr)
PM	0.02	0.08
PM-10	0.02	0.08
SO_2	0.00	0.01
CO	0.21	0.91
NO_X	0.25	1.09
VOC	0.01	0.06
2-Methylnaphthalene	5.96E-08	2.61E-07
3-Methylchloranthrene	4.47E-09	1.96E-08
7,12-Dimethylbenz(a)anthracene	3.97E-08	1.74E-07
Acenaphthene	4.47E-09	1.96E-08
Acenaphthylene	4.47E-09	1.96E-08
Anthracene	5.96E-09	2.61E-08
Benz(a)anthracene	4.47E-09	1.96E-08
Benzene	5.21E-06	2.28E-05
Benzo(a)pyrene	2.98E-09	1.31E-08
Benzo(b)fluoranthene	4.47E-09	1.96E-08
Benzo(g,h,i)perylene	2.98E-09	1.31E-08
Benzo(k)fluoranthene	4.47E-09	1.96E-08
Chrysene	4.47E-09	1.96E-08
Dibenzo(a,h)anthracene	2.98E-09	1.31E-08
Dichlorobenzene	2.98E-06	1.31E-05
Fluoranthene	7.45E-09	3.26E-08
Fluorene	6.95E-09	3.05E-08
Formaldehyde	1.86E-04	8.16E-04
Hexane	4.47E-03	1.96E-02
Indeno(1,2,3-cd)pyrene	4.47E-09	1.96E-08
Naphthalene	1.51E-06	6.63E-06
Phenanathrene	4.22E-08	1.85E-07
Pyrene	1.24E-08	5.44E-08
Toluene	8.44E-06	3.70E-05
TOTAL HAP:	**0.005**	**0.020**

All emission factors from AP-42, Section 1.4, Natural Gas Combustion, 7/98

Attachment P

Public Notice

AIR QUALITY PERMIT NOTICE

Notice of Application

Notice is given that Eastern Gas Transmission and Storage, Inc. has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Construction Permit for the installation and operation of a replacement pipeline heater at the Carnegie Warehouse location off Shortline Road near Pine Grove, in Wetzel County, West Virginia. The latitude and longitude coordinates of the facility are:

Latitude: 39.54847
Longitude: -80.67034

The applicant estimates the increases in potential to discharge for the facility for the following Regulated Air Pollutants will be:

CO:	0.91 tons per year
NOx:	1.09 tons per year
VOC:	0.06 tons per year
PM-10:	0.08 tons per year
SO2:	0.01 tons per year
HAPs (total):	0.02 tons per year

Startup of operation is planned to begin on or about the 1st day of October, 2025. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice. Written comments will also be received via email at DEPAirQualityPermitting@WV.gov.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 41281, during normal business hours.
Dated this the 16th day of September, 2024.

By: Eastern Gas Transmission and Storage, Inc.
John M. Lamb
VP, Eastern Pipeline Operations
925 White Oaks Blvd.
Bridgeport, WV 26330

Attachment S

Title V Revision Information

Attachment S

Title V Permit Revision Information

1. New Applicable Requirements Summary	
Mark all applicable requirements associated with the changes involved with this permit revision:	
☐ SIP	☐ FIP
☒ Minor source NSR (45CSR13)	☐ PSD (45CSR14)
☐ NESHAP (45CSR15)	☐ Nonattainment NSR (45CSR19)
☒ Section 111 NSPS	☐ Section 112(d) MACT standards
☐ Section 112(g) Case-by-case MACT	☐ 112(r) RMP
☐ Section 112(i) Early reduction of HAP	☐ Consumer/commercial prod. reqts., section 183(e)
☐ Section 129 Standards/Reqts.	☐ Stratospheric ozone (Title VI)
☐ Tank vessel reqt., section 183(f)	☐ Emissions cap 45CSR§30-2.6.1
☐ NAAQS, increments or visibility (temp. sources)	☐ 45CSR27 State enforceable only rule
☐ 45CSR4 State enforceable only rule	☐ Acid Rain (Title IV, 45CSR33)
☐ Emissions Trading and Banking (45CSR28)	☐ Compliance Assurance Monitoring (40CFR64) (1)
☐ NO_x Budget Trading Program Non-EGUs (45CSR1)	☐ NO_x Budget Trading Program EGUs (45CSR26)

(1) If this box is checked, please include **Compliance Assurance Monitoring (CAM) Form(s)** for each Pollutants Specific Emission Unit (PSEU) (See Attachment H to Title V Application). If this box is not checked, please explain why **Compliance Assurance Monitoring** is not applicable:

CAM is not applicable for this permit action; no changes with this application that would trigger CAM review.

2. Non Applicability Determinations

List all requirements, which the source has determined not applicable to this permit revision and for which a permit shield is requested. The listing shall also include the rule citation and a rationale for the determination.

40 CFR 60 Subpart OOOOb – NSPS for Crude Oil and Natural Gas Facilities – This facility is not one of the listed subject facilities in 40 CFR 60.5365b.

40 CFR 63 Subpart DDDDD – NESHAP for Industrial, Commercial, and Institutional Boilers Major Sources – This facility is not a major source of HAP.

40 CFR 63 Subpart JJJJJJ – NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources – These standards specifically do not apply to gas-fired boilers.

☒ **Permit Shield Requested** *(not applicable to Minor Modifications)*

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

3. Suggested Title V Draft Permit Language

Are there any changes involved with this Title V Permit revision outside of the scope of the NSR Permit revision? ☐ Yes ☒ No If Yes, describe the changes below.

Also, please provide **Suggested Title V Draft Permit language** for the proposed Title V Permit revision (including all applicable requirements associated with the permit revision and any associated monitoring /recordkeeping/ reporting requirements), OR attach a marked up pages of current Title V Permit. Please include appropriate citations (Permit or Consent Order number, condition number and/or rule citation (e.g. 45CSR§7-4.1)) for those requirements being added / revised.

4. Active NSR Permits/Permit Determinations/Consent Orders Associated With This Permit Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number

5. Inactive NSR Permits/Obsolete Permit or Consent Orders Conditions Associated With This Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
N/A		

6. Change in Potential Emissions

Pollutant	Change in Potential Emissions (+ or -), TPY
CO	0.91
NOx	1.09
SO2	0.01
VOC	0.06
PM-10	0.08
Total HAP	0.02

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

7. Certification For Use Of Minor Modification Procedures *(Required Only for Minor Modification Requests)*

Note:	*This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete. The criteria for allowing the use of Minor Modification Procedures are as follows:*

i. Proposed changes do not violate any applicable requirement;

ii. Proposed changes do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;

iii. Proposed changes do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient air quality impacts, or a visibility increment analysis;

iv. Proposed changes do not seek to establish or change a permit term or condition for which there is no underlying applicable requirement and which permit or condition has been used to avoid an applicable requirement to which the source would otherwise be subject (synthetic minor). Such terms and conditions include, but are not limited to a federally enforceable emissions cap used to avoid classification as a modification under any provision of Title I or any alternative emissions limit approved pursuant to regulations promulgated under § 112(j)(5) of the Clean Air Act;

v. Proposed changes do not involve preconstruction review under Title I of the Clean Air Act or 45CSR14 and 45CSR19;

vi. Proposed changes are not required under any rule of the Director to be processed as a significant modification;

Notwithstanding subparagraph 45CSR§30-6.5.a.1.A. (items i through vi above), minor permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in rules of the Director which are approved by the U.S. EPA as a part of the State Implementation Plan under the Clean Air Act, or which may be otherwise provided for in the Title V operating permit issued under 45CSR30.

Pursuant to 45CSR§30-6.5.a.2.C., the proposed modification contained herein meets the criteria for use of Minor permit modification procedures as set forth in Section 45CSR§30-6.5.a.1.A. The use of Minor permit modification procedures are hereby requested for processing of this application.

(Signed):	_____ *(Please use blue ink)*	Date:	____ / ____ / ____ *(Please use blue ink)*
Named (typed):	_____	Title:	

Note: Please check if the following included (if applicable):

☐	Compliance Assurance Monitoring Form(s)
☐	Suggested Title V Draft Permit Language

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.