



L.L. Tonkin compressor station TV permit renewal

13 messages

Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Mon, Feb 3, 2025 at 2:43 PM

Hello Andy,
I am working on your renewal application for the L.L. Tonkin compressor station, and have a quick question.
In the renewal application PTE for some of the HAPs are shown below their actual emissions reported in 2023 SLEIS (in bold).
Please, verify.
Thank you!
Sincerely,
Natalya Chertkovsky

Hazardous Air Pollutants	Potential Emissions	2023 Actual Emissions
Acetaldehyde	0.03	0.02
Acrolein	0.07	<0.01
Benzene	0.01	<0.01
Ethylbenzene	0.12	0.01
Formaldehyde	1.15	1.12
Hexane	0.02	0.01
Toluene	0.04	0.05
Xylene	0.02	0.03

Gates, Andy (BHE GT&S) <Andy.Gates@bhegts.com>
To: "Chertkovsky, Natalya V" <natalya.v.chertkovsky@wv.gov>

Mon, Feb 3, 2025 at 3:16 PM

Hi Natalya –

I'm looking into this and will get back to you once I figure it out.

Let me know if you have other questions.

Thanks,

Andy Gates
Senior Environmental Specialist

BHE GT&S, LLC

[10700 Energy Way](#)

[Glen Allen, VA 23060](#)

804-389-1340



From: Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>
Sent: Monday, February 3, 2025 14:43
To: Gates, Andy (BHE GT&S) <Andy.Gates@bhegts.com>
Subject: [EXTERNAL] L.L. Tonkin compressor station TV permit renewal

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Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Mon, Feb 3, 2025 at 4:25 PM

Sounds good, thank you.
[Quoted text hidden]

Gates, Andy (BHE GT&S) <Andy.Gates@bhegts.com>
To: Natalya V Chertkovsky <natalya.v.chertkovsky@wv.gov>

Tue, Feb 4, 2025 at 4:51 PM

Hi Natalya,

My investigation into your question uncovered mistakes that were made in the 2019 renewal application and carried over into the 2024 renewal. The mistakes were in the potential-to-emit calculations but not in the annual emissions inventories.

There were two areas of concern:

1. For some of the emissions units, the HAP total potentials-to-emit were incorrectly based on the HOURLY lb/hr PTEs, and not the annual in tpy.
2. We have been using a higher emissions factor for formaldehyde for the three turbines in the annual SLEIS emissions inventories (for many years) that was not reflected in the Title V renewal application or PTE calculations. The renewal application used the AP-42 factor.

Here are the corrected PTE calculations, in tons per year. The cells highlighted in yellow are different than what appears in the renewal application, but the rest of the numbers are all in the Attachment E pages for their respective emissions units.

Pollutant	Turbine TRB01 (tons/yr)	Turbines TRB02 (tons/yr)	Turbines TRB03 (tons/yr)	Aux Gen AUX02 (tons/yr)	Boiler BLR02 (tons/yr)	Facility Wide Totals (tons/yr)
Acetaldehyde	0.0082	0.0104	0.0104	0.0264	--	0.06
Acrolein	0.0013	0.0017	0.0017	0.0162	--	0.02
Benzene	0.0025	0.0031	0.0031	0.0014	0.000	0.01
Ethylbenzene	0.0065	0.0083	0.0083	0.0001	--	0.02
Formaldehyde	0.5888	0.7466	0.7466	0.2500	0.001	2.33
Hexane	--	--	--	--	0.023	0.02
Toluene	0.0266	0.0337	0.0337	0.0013	0.000	0.10
Xylene	0.0131	0.0166	0.0166	0.0006	--	0.05

I've also attached the 2024 SLEIS submittal that shows the emission factor that was used to calculate actual emissions (0.00288 lbs formaldehyde/million Btu). As noted in the highlighted comments in SLEIS, we have been using this factor to calculate actual formaldehyde emissions since the 2016 SLEIS submittal.

Let me know if this is sufficient or if you need me to revise and resubmit the forms.

I apologize for any confusion, and thank you for bringing this to my attention.

[Quoted text hidden]

 2023 LL Tonkin SLEIS report.pdf
222K

Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>
 To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Tue, Feb 4, 2025 at 5:28 PM

Andy,
 Thank you very much for the clarification. Based on your information I revised the HAPs PTEs as follows:

Hazardous Air Pollutants	Potential Emissions	2023 Actual Emissions
Acetaldehyde	0.06	0.02
Acrolein	0.02	<0.01
Benzene	0.01	<0.01
Ethylbenzene	0.02	0.01
Formaldehyde	2.33	1.12
Hexane	0.02	0.01
Toluene	0.10	0.05
Xylene	0.05	0.03
Total HAPs	2.61	1.26

Please, revise the renewal application PTE table and email it to me.

Thank you much,
 Natalya
 [Quoted text hidden]

Gates, Andy (BHE GT&S) <Andy.Gates@bhegts.com>
 To: "Chertkovsky, Natalya V" <natalya.v.chertkovsky@wv.gov>


Wed, Feb 5, 2025 at 9:33 AM

Natalya,

Here is the revised page. Let me know if you need anything else.

Thank you,

[Quoted text hidden]

 **LL Tonkin - Title V 2024 potential emissions - CORRECTED.pdf**
175K

Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Wed, Feb 5, 2025 at 10:06 AM

Thank you, Andy, for your quick feedback!

[Quoted text hidden]

Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Wed, Feb 5, 2025 at 2:15 PM

Andy, quick question please:

Is the company mailing address still:
925 White Oaks Blvd., Bridgeport WV, 26330?

And facility mailing address:
139 Tonkin Station Road, West Union, WV 26456?

Thanks!

[Quoted text hidden]

Gates, Andy (BHE GT&S) <Andy.Gates@bhegts.com>
To: "Chertkovsky, Natalya V" <natalya.v.chertkovsky@wv.gov>

Wed, Feb 5, 2025 at 2:57 PM

Yes, those are correct.

[Quoted text hidden]

Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Wed, Feb 5, 2025 at 3:24 PM

Ok, thanks!

[Quoted text hidden]

Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>


Wed, Feb 12, 2025 at 2:33 PM

Hi Andy,
Please, find attached draft TV permit renewal and a renewal fact sheet for your review.
Please, let me know by February 25, 2025 (or sooner) if you have any questions or comments.

Thank you,
Sincerely,
Natalya Chertkovsky

[Quoted text hidden]

2 attachments

 **DPPermitRenewal2025.docx**
295K

 **DPFactSheetRenewal2025.docx**
89K

Gates, Andy (BHE GT&S) <Andy.Gates@bhegts.com>
To: "Chertkovsky, Natalya V" <natalya.v.chertkovsky@wv.gov>

Fri, Feb 14, 2025 at 11:19 AM

Hi Natalya,

Thank you for the opportunity to review this draft. It looks very good to me.

I only have one small comment, and it is a very minor thing: The last two conditions in section 6.1.1 look like they are mis-labeled; I think they should be "i" and "j" rather than "j" and "k." It might be a function of your word processing system, but those two provisions are labeled "i" and "j" in 40 CFR 60.5397a.

Thanks again,

[Quoted text hidden]

Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>
To: "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Tue, Feb 18, 2025 at 6:09 PM

Hi Andy,
Thank you for your quick comment - I fixed the mislabeling per your suggestion (it was probably my word processing, you're right).
Thanks again for your cooperation!
Sincerely,
Natalya Chertkovsky
[Quoted text hidden]

2023 Emissions Inventory Report

Emissions Summary for EGTS - L.L. TONKIN COMPRESSOR STATION (54-017-00003)

CRITERIA AIR POLLUTANT (CAP) EMISSIONS TOTALS

Pollutant Code/CAS #	Pollutant Name	Emissions (tons, excluding tailpipe)	Tailpipe Emissions (tons)	Total Emissions (tons)*
SO2	Sulfur Dioxide	0.36141	<.00001	0.36141
NOX	Nitrogen Oxides	35.48966	<.00001	35.48966
VOC	Volatile Organic Compounds	11.60429	<.00001	11.60429
CO	Carbon Monoxide	33.41699	<.00001	33.41699
PM-CON	PMCondensable	2.27967	<.00001	2.27967
PM-FIL	PMFilterable	5.80517	<.00001	5.80517
PM10-FIL	PM10 Filterable	5.80516	<.00001	5.80516
PM25-FIL	PM2.5 Filterable	5.80517	<.00001	5.80517

HAZARDOUS AIR POLLUTANT (HAP) and/or OTHER POLLUTANT EMISSIONS TOTALS

Pollutant Code/CAS #	Pollutant Name	Is VOC/PM?	Total Emissions (tons)*
75070	Acetaldehyde (HAP)	VOC	0.01552
107028	Acrolein (HAP)	VOC	0.00253
71432	Benzene (HAP)	VOC	0.00465
100414	Ethyl Benzene (HAP)	VOC	0.00932
50000	Formaldehyde (HAP)	VOC	1.11365
110543	Hexane (HAP)	VOC	0.00558
108883	Toluene (HAP)	VOC	0.05027
1330207	Xylenes (Mixed Isomers) (HAP)	VOC	0.02474
124389	CARBON DIOXIDE (GHG)	-	46,826.9528
CO2	Carbon Dioxide (GHG)	-	2.4032
74828	Methane (GHG)	-	0.21609
CH4	Methane (GHG)	-	0.66703
N2O	Nitrous Oxide (GHG)	-	0.08831

EMISSIONS TOTALS

Total CAP Emissions (tons)*	Total HAP/OTHER Emissions (tons)*	Total Emissions (tons)*
100.56752	46,831.55369	46,932.12121

	Total CAP	Total HAP/OTHER	Total Emissions
	Emissions	Emissions	(tons)*
	(tons)*	(tons)*	

*Rounded to 5 digits past the decimal point. Note that where rounding results in 0, <.00001 is indicated.

2023 Emissions Inventory Report
EGTS - L.L. TONKIN COMPRESSOR STATION (54-017-00003)

FACILITY

Facility Identifier:	54-017-00003	Facility Name:	EGTS - L.L. TONKIN COMPRESSOR STATION
Company/Owner Name:	Eastern Gas Transmission and Storage, Inc.		
Description:	NATURAL GAS TRANSMISSION		
Status:	OP - Operating	Status Year:	
Category:	TypeB-UNK - AERR Type B - Facility category per 40 CFR 70 Major Source definitions is unknown.		
NAICS:	48621 (Primary) - Pipeline Transportation of Natural Gas		
Comments:			

FACILITY - CONTACTS

Emissions Contact:	Andy Gates (Environmental Consultant)		
Email	andy.gates@bhegts.com		
Phone	(804) 389-1340		
Permit Contact:	Andy Gates (Environmental Consultant)		
Email	andy.gates@bhegts.com		
Phone	(804) 389-1340		
Compliance Contact:	Andy Gates (Environmental Consultant)		
Email	andy.gates@bhegts.com		
Phone	(804) 389-1340		

FACILITY - ADDRESS

Location Address:	STAR ROUTE 18 - NORTH, BOX 11 WEST UNION, WV 26456	Mailing Address:	925 White Oaks Blvd Bridgeport, WV 26330
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FACILITY - LOCATION

Latitude (decimal degrees):	39.309722	Longitude (decimal degrees):	-80.781945	
UTM X (meters):	518800	UTM Y (meters):	4351000	UTM Zone: 17
Collection Method:				
Geographic Reference Point:	Geodetic Reference System:			

FACILITY - ADDITIONAL INFORMATION

Field Name	Field Value
Responsible Official Name	John M. Lamb

Field Name	Field Value
Responsible Official Title	VP Eastern Pipeline Operations
Responsible Official Verified?	VERIFIED
Facility Employees	2
Facility Area (Acres)	31.4

RELEASE POINTS					
ID	Type	Description	Status	Details	Location
0	Fugitive Area	PLANTWIDE FUGITIVES	OP	Fugitive Height: , Fugitive Width: , Fugitive Length: , Fugitive Angle:	Uses Facility Site Location
1	Vertical	TURB 1 - SOLAR CENT-T4500	OP	Height: 56.0 FEET, Shape: Circular, Diameter: 4.0 FEET, Temperature: 843.0 F, Flow Rate: 1,348.37157 ACFS, Velocity: 107.3 FPS	Uses Facility Site Location
2	Vertical	AUXILIARY POWER UNIT	OP	Height: 9.0 FEET, Shape: Circular, Diameter: 0.42 FEET, Temperature: 0.0 F, Flow Rate: 0.13854 ACFM, Velocity: 1.0 FPM	Uses Facility Site Location
3	Vertical	BOILER -PEERLESS	OP	Height: 17.0 FEET, Shape: Circular, Diameter: 0.83 FEET, Temperature: 0.0 F, Flow Rate: 0.54106 ACFM, Velocity: 1.0 FPM	Uses Facility Site Location
4	Vertical	TURBINE 2 (TRB02) SOLAR CENTAUR	OP	Height: 45.0 FEET, Shape: Circular, Diameter: 10.38 FEET, Temperature: 4,000.0 F, Flow Rate: 1,548.58725 ACFS, Velocity: 18.3 FPS	Uses Facility Site Location
5	Vertical	TURBINE 3 (TRB03) SOLAR CENTAUR	OP	Height: 45.0 FEET, Shape: Circular, Diameter: 10.38 FEET, Temperature: 4,000.0 F, Flow Rate: 1,548.58725 ACFS, Velocity: 18.3 FPS	Uses Facility Site Location
6	Vertical	BOILER 2 (BLR02) HURST	OP	Height: 25.0 FEET, Shape: Circular, Diameter: 1.33 FEET, Temperature: 300.0 F, Flow Rate: 7.4466 ACFS, Velocity: 5.36 FPS	Uses Facility Site Location
9	Vertical	AUXILIARY POWER UNIT	OP in 2017	Height: 9.0 FEET, Shape: Circular, Diameter: 0.42 FEET, Temperature: 0.0 F, Flow Rate: 0.13854 ACFM, Velocity: 0.99997 FPM	Uses Facility Site Location

CONTROL DEVICES				
ID	Description	Status	Control Measure	Controlled Pollutants

EMISSION UNITS				
ID	Type	Description	Status	Details
001	999 - Unclassified	TURB 1 - SOLAR CENT-T4500	OP	Operation Start : , Design Capacity:
004	999 - Unclassified	FUGITIVE EMISSIONS	OP	Operation Start : , Design Capacity:
005	999 - Unclassified	TANK EMISSIONS	OP	Operation Start : , Design Capacity:
006	999 - Unclassified	TURBINE 2 (TRB02) SOLAR CENTAUR	OP	Operation Start: 10/07/2016, Design Capacity: 6,035.0 HP
007	999 - Unclassified	TURBINE 3 (TRB03) SOLAR CENTAUR	OP	Operation Start: 10/07/2016, Design Capacity: 6,035.0 HP
008	100 - Boiler	BOILER 2 (BLR02) HURST	OP	Operation Start: 10/02/2016, Design Capacity: 2.94 E6BTU/HR
009	999 - Unclassified	AUXILIARY POWER UNIT 2	OP	Operation Start: 03/08/2017, Design Capacity: 4.846 E6BTU/HR

UNIT PROCESSES			4592369	FACILITY	
Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
001 TURB 1 - SOLAR CENT-T4500	1	20300202	TURBINE 1	OP	Control Approach Controlled?: No Description: No Process Controls Release Point Apportionment: 1 - TURB 1 - SOLAR CENT-T4500: 100.0%
004 FUGITIVE EMISSIONS	4	31088801	FUGITIVE EMISSIONS	OP	Control Approach Controlled?: No Description: No Process Controls Release Point Apportionment: 0 - PLANTWIDE FUGITIVES: 100.0%
005 TANK EMISSIONS	5	31088801	TANK EMISSIONS	OP	Control Approach Controlled?: No Description: No Process Controls Release Point Apportionment: 0 - PLANTWIDE FUGITIVES: 100.0%
006 TURBINE 2 (TRB02) SOLAR CENTAUR	006	20300202	TURBINE 2 (TRB02) SOLAR CENTAUR	OP	Control Approach Controlled?: Yes Description: Capture Efficiency: Control Devices: None Release Point Apportionment: 4 - TURBINE 2 (TRB02) SOLAR CENTAUR: 100.0%
007 TURBINE 3 (TRB03) SOLAR CENTAUR	007	20300202	TURBINE 3 (TRB03) SOLAR CENTAUR	OP	Control Approach Controlled?: Yes Description: Capture Efficiency: Control Devices: None Release Point Apportionment: 5 - TURBINE 3 (TRB03) SOLAR CENTAUR: 100.0%
008 BOILER 2 (BLR02) HURST	008	10300603	BOILER 2 (BLR02) HURST	OP	Control Approach Controlled?: Yes Description: Capture Efficiency: Control Devices: None Release Point Apportionment: 6 - BOILER 2 (BLR02) HURST: 100.0%
009 AUXILIARY POWER UNIT 2	AUX 02	20300201	AUXILIARY POWER UNIT	OP	Control Approach Controlled?: No Description: Release Point Apportionment: 9 - AUXILIARY POWER UNIT: 100.0%

PROCESS EMISSIONS				
Emission Unit ID	Unit Process ID	Throughput	Operations	
001 TURB 1 - SOLAR CENT-T4500	1 TURBINE 1	Annual Throughput: 190.72 MILLION CUBIC FEET (Natural Gas) (Input) Supplemental Calculation Parameters Heat Content (MMBTU/Unit): 1.0	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 0.0 Actual Hours/Year: 4,984.8 Seasonal Operations: Dec-Feb: 22.2%, Mar-May: 28.2%, Jun-Aug: 30.7%, Sep-Nov: 18.9%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM
		SO2 - Sulfur Dioxide	0.93	EBFT3 - MILLION CUBIC FEET
				11 - Vendor EF (post-control)
			Estimated Emis. (Tons)	
			0.0886848	
		NOX - Nitrogen Oxides		7 - Manufacturer Specification
			15.1668	
			Emission Comment: 2016 emissions based all hours/throughput on SoLoNbx emission factors as they were more conservative. Vendor EF = 0.00093 lb/MMBtu	
			Summer Day Emissions (Tons): 0.07275324375	
			Ozone Season Emissions (Tons): 7.0373952	
		VOC - Volatile Organic Compounds		7 - Manufacturer Specification
			0.69707	
			Summer Day Emissions (Tons): 0.00334375765625	
			Ozone Season Emissions (Tons): 0.32344048	
		CO - Carbon Monoxide		7 - Manufacturer Specification
			12.513	
			Summer Day Emissions (Tons): 0.060023296875	
			Ozone Season Emissions (Tons): 5.806032	
		75070 - Acetaldehyde	0.04	EBFT3 - MILLION CUBIC FEET
				33 - Other EF (pre-control)
			0.0038144	
			Overall Control Efficiency: 0.0%	
		107028 - Acrolein	0.0064	EBFT3 - MILLION CUBIC FEET
				33 - Other EF (pre-control)
			0.000610304	
			Overall Control Efficiency: 0.0%	
		71432 - Benzene	0.012	EBFT3 - MILLION CUBIC FEET
				33 - Other EF (pre-control)
			0.00114432	
			Overall Control Efficiency: 0.0%	
		50000 - Formaldehyde	2.88	EBFT3 - MILLION CUBIC FEET
				11 - Vendor EF (post-control)
			0.2746368	
			Emission Comment: 2016 emissions based all hours/throughput on SoLoNbx emission factors as they were more conservative. Vendor EF = 0.00288 lb/MMBtu	
		108883 - Toluene	0.13	EBFT3 - MILLION CUBIC FEET
				28 - USEPA EF (pre-control)
			0.0123968	
			Overall Control Efficiency: 0.0%	
		1330207 - Xylenes (Mxed Isomers)	0.064	EBFT3 - MILLION CUBIC FEET
				33 - Other EF (pre-control)
			0.00610304	
			Overall Control Efficiency: 0.0%	
		124389 - CARBON DIOXIDE	120,160.0	EBFT3 - MILLION CUBIC FEET
				33 - Other EF (pre-control)
			11,458.4576	
			Overall Control Efficiency: 0.0%	
		74828 - Methane	2.266	EBFT3 - MILLION CUBIC FEET
				33 - Other EF (pre-control)
			0.21608576	
			Overall Control Efficiency: 0.0%	
		N2O - Nitrous Oxide	0.2266	EBFT3 - MILLION CUBIC FEET
				33 - Other EF (pre-control)
			0.021608576	
			Overall Control Efficiency: 0.0%	
		FM-CON - FM Condensable		2 - Engineering Judgment
			0.7624	
			Emission Comment: Vendor EF for FM10/FM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable.	
		FM-FIL - FM Filterable	15.0	EBFT3 - MILLION CUBIC FEET
				11 - Vendor EF (post-control)
			1.4304	
			Emission Comment: 2016 emissions based all hours/throughput on SoLoNbx emission factors as they were more conservative. Vendor EF for FM10/FM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable. Assume FM=FM10=FM2.5	
		FM10-FIL - FM10 Filterable	15.0	EBFT3 - MILLION CUBIC FEET
				11 - Vendor EF (post-control)
			1.4304	
			Emission Comment: 2016 emissions based all hours/throughput on SoLoNbx emission factors as they were more conservative. Vendor EF for FM10/FM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable.	
		FM25-FIL - FM2.5 Filterable	15.0	EBFT3 - MILLION CUBIC FEET
				11 - Vendor EF (post-control)
			1.4304	
			Emission Comment: 2016 emissions based all hours/throughput on SoLoNbx emission factors as they were more conservative. Vendor EF for FM10/FM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable.	

Emission Unit ID	Unit Process ID	Throughput	Operations			
004 FUGITIVE EMISSIONS	4 FUGITIVE EMISSIONS	Annual Throughput: 0.0 EACH (Process Unit) (Existing)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 0.0			
		Supplemental Calculation Parameters Heat Content (MMBTU/Unit): 1.0	Actual Hours/Year: 8,760.0			
			Seasonal Operations: Dec-Feb: 24.9%, Mar-May: 25.1%, Jun-Aug: 25.1%, Sep-Nov: 24.9%			
		Comment: Fugitive emissions are those emissions from valves, flanges, connections, open-ended lines, etc.				
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
VOC - Volatile Organic Compounds			2 - Engineering Judgment	8.54		
Summer Day Emissions (Tons): 0.023299347826087						
Ozone Season Emissions (Tons): 3.566873618						
Emission Comment: Fugitive emissions estimated using GR's HAPcalc v1.0; based on 2014 permit application and ratio of operating hours.						
Emission Unit ID	Unit Process ID	Throughput	Operations			
005 TANK EMISSIONS	5 TANK EMISSIONS	Annual Throughput: 0.0 EACH (Process Unit) (Existing)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 0.0			
		Supplemental Calculation Parameters Heat Content (MMBTU/Unit): 1.0	Actual Hours/Year: 8,760.0			
			Seasonal Operations: Dec-Feb: 24.9%, Mar-May: 25.1%, Jun-Aug: 25.1%, Sep-Nov: 24.9%			
		Comment: Tank emissions consist of the total fugitive VOC emissions from the tanks at the facility that store drip gas, methanol, triethylene glycol, glycol/water, distillate, gasoline, natural gas, wastewater, etc.				
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
VOC - Volatile Organic Compounds			2 - Engineering Judgment	0.03		
Summer Day Emissions (Tons): 0.0000818478260869565						
Ozone Season Emissions (Tons): 0.012530001						
Emission Comment: Tank emissions estimated using GR's HAPcalc and best engineering judgment.						
Emission Unit ID	Unit Process ID	Throughput	Operations			
006 TURBINE 2 (TRB02) SOLAR CENTAUR	006 TURBINE 2 (TRB02) SOLAR CENTAUR	Annual Throughput: 296.16 MILLION CUBIC FEET (Natural Gas) (Input)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0			
			Actual Hours/Year: 6,473.7			
			Seasonal Operations: Dec-Feb: 23.1%, Mar-May: 20.9%, Jun-Aug: 33.4%, Sep-Nov: 22.6%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		SO2 - Sulfur Dioxide	0.93	EBFT3 - MILLION CUBIC FEET	11 - Vendor EF (post-control)	0.1377144
		Emission Comment: Vendor EF = 0.00093 lb/MMBtu				
		NOX - Nitrogen Oxides			7 - Manufacturer Specification	10.268
		Summer Day Emissions (Tons): 0.0376869450549451				
		Ozone Season Emissions (Tons): 4.918372				
		VOC - Volatile Organic Compounds			7 - Manufacturer Specification	1.188
		Summer Day Emissions (Tons): 0.00436035164835165				
		Ozone Season Emissions (Tons): 0.569052				
		CO - Carbon Monoxide			7 - Manufacturer Specification	10.532
		Summer Day Emissions (Tons): 0.0386559120879121				
		Ozone Season Emissions (Tons): 5.044828				
		75070 - Acetaldehyde	0.04	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.0059232
		Overall Control Efficiency: 0.0%				
		107028 - Acrolein	0.0064	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.000947712
		Overall Control Efficiency: 0.0%				
		71432 - Benzene	0.012	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.00177696
Overall Control Efficiency: 0.0%						
100414 - Ethyl Benzene	0.032	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.00473856		
Overall Control Efficiency: 0.0%						
50000 - Formaldehyde	2.88	EBFT3 - MILLION CUBIC FEET	11 - Vendor EF (post-control)	0.4264704		
Emission Comment: Vendor EF = 0.00288 lb/MMBtu						

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
108883 - Toluene	0.13	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.0192504
Overall Control Efficiency: 0.0%				
1330207 - Xylenes (Mixed Isomers)	0.064	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.00947712
Overall Control Efficiency: 0.0%				
124389 - CARBON DIOXIDE	120,160.0	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	17,793.2928
Overall Control Efficiency: 0.0%				
CH4 - Methane	2.266	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	0.33554928
Overall Control Efficiency: 0.0%				
N2O - Nitrous Oxide	0.2266	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.033554928
Overall Control Efficiency: 0.0%				
PM-COON - PM Condensable			2 - Engineering Judgment	0.7624
Emission Comment: Vendor EF for PM10/PM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable.				
PM-FIL - PM Filterable	15.0	EBFT3 - MILLION CUBIC FEET	11 - Vendor EF (post-control)	2.2212
Emission Comment: Vendor EF for PM10/PM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable. Assume PM=PM10=PM2.5				
PM10-FIL - PM10 Filterable	15.0	EBFT3 - MILLION CUBIC FEET	11 - Vendor EF (post-control)	2.2212
Emission Comment: Vendor EF for PM10/PM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable.				
PM25-FIL - PM2.5 Filterable	15.0	EBFT3 - MILLION CUBIC FEET	11 - Vendor EF (post-control)	2.2212
Emission Comment: Vendor EF for PM10/PM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable.				

Emission Unit ID	Unit Process ID	Throughput	Operations
007 TURBINE 3 (TRB03) SOLAR CENTAUR	007 TURBINE 3 (TRB03) SOLAR CENTAUR	Annual Throughput: 286.33 MILLION CUBIC FEET (Natural Gas) (Input)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 6,138.5 Seasonal Operations: Dec-Feb: 33.9%, Mar-May: 11.9%, Jun-Aug: 34.8%, Sep-Nov: 19.4%

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
SO2 - Sulfur Dioxide	0.93	EBFT3 - MILLION CUBIC FEET	11 - Vendor EF (post-control)	0.13314345
NOX - Nitrogen Oxides			7 - Manufacturer Specification	9.734
Summer Day Emissions (Tons): 0.0380610337078652				
Ozone Season Emissions (Tons): 4.4030123422				
VOC - Volatile Organic Compounds			7 - Manufacturer Specification	1.1274
Summer Day Emissions (Tons): 0.0044082606741573				
Ozone Season Emissions (Tons): 0.50996056242				
CO - Carbon Monoxide			7 - Manufacturer Specification	10.068
Summer Day Emissions (Tons): 0.0393670112359551				
Ozone Season Emissions (Tons): 4.5540916644				
75070 - Acetaldehyde	0.04	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.00572659999999
Overall Control Efficiency: 0.0%				
107028 - Acrolein	0.0064	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.000916256
Overall Control Efficiency: 0.0%				
71432 - Benzene	0.012	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.001717979999999
Overall Control Efficiency: 0.0%				
100414 - Ethyl Benzene	0.032	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.004581279999999
Overall Control Efficiency: 0.0%				
50000 - Formaldehyde	2.88	EBFT3 - MILLION CUBIC FEET	11 - Vendor EF (post-control)	0.412315199999999
Emission Comment: Vendor EF = 0.00288 lb/MMBtu				
108883 - Toluene	0.13	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.01861145
Overall Control Efficiency: 0.0%				

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
1330207 - Xylenes (Mxed Isomers)	0.064	EBFT3 - MLLION CUBIC FEET	28 - USEPA EF (pre-control)	0.009162559999999
Overall Control Efficiency: 0.0%				
124389 - CARBON DIOXIDE	120,160.0	EBFT3 - MLLION CUBIC FEET	33 - Other EF (pre-control)	17,202.7064
Overall Control Efficiency: 0.0%				
CH4 - Methane	2.266	EBFT3 - MLLION CUBIC FEET	33 - Other EF (pre-control)	0.32441189
Overall Control Efficiency: 0.0%				
N2O - Nitrous Oxide	0.2266	EBFT3 - MLLION CUBIC FEET	33 - Other EF (pre-control)	0.032441188999999
Overall Control Efficiency: 0.0%				
FM-CON - FM Condensable			2 - Engineering Judgment	0.737
Emission Comment: Vendor EF for FM10/FM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable.				
FM-FIL - FM Filterable	15.0	EBFT3 - MLLION CUBIC FEET	11 - Vendor EF (post-control)	2.147475
Emission Comment: Vendor EF for FM10/FM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable. Assume FM=FM10=FM2.5				
FM10-FIL - FM10 Filterable	15.0	EBFT3 - MLLION CUBIC FEET	11 - Vendor EF (post-control)	2.147475
Emission Comment: Vendor EF for FM10/FM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable.				
FM25-FIL - FM2.5 Filterable	15.0	EBFT3 - MLLION CUBIC FEET	11 - Vendor EF (post-control)	2.147475
Emission Comment: Vendor EF for FM10/FM2.5 = 0.015 lb/MMBtu. It does not separate condensable vs filterable.				

Emission Unit ID	Unit Process ID	Throughput	Operations
008 BOILER 2 (BLR02) HURST	008 BOILER 2 (BLR02) HURST	Annual Throughput: 6.2 MILLION CUBIC FEET (Natural Gas) (Input)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 4,017.8 Seasonal Operations: Dec-Feb: 38.3%, Mar-May: 26.3%, Jun-Aug: 11.3%, Sep-Nov: 24.1%

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
SO2 - Sulfur Dioxide	0.6	EBFT3 - MLLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.00186
Overall Control Efficiency: 0.0%				
NOX - Nitrogen Oxides	100.0	EBFT3 - MLLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.31
Overall Control Efficiency: 0.0%				
Summer Day Emissions (Tons): 0.00184368421052632				
Ozone Season Emissions (Tons): 0.08711				
VOC - Volatile Organic Compounds	5.5	EBFT3 - MLLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.01705
Overall Control Efficiency: 0.0%				
Summer Day Emissions (Tons): 0.000101402631578947				
Ozone Season Emissions (Tons): 0.00479105				
CO - Carbon Monoxide	84.0	EBFT3 - MLLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.2604
Overall Control Efficiency: 0.0%				
Summer Day Emissions (Tons): 0.00154869473684211				
Ozone Season Emissions (Tons): 0.0731724				
71432 - Benzene	0.0021	EBFT3 - MLLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.00000651
Overall Control Efficiency: 0.0%				
50000 - Formaldehyde	0.075	EBFT3 - MLLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.0002325
Overall Control Efficiency: 0.0%				
110543 - Hexane	1.8	EBFT3 - MLLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.00558
Overall Control Efficiency: 0.0%				
108883 - Toluene	0.0034	EBFT3 - MLLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.000010539999999
Overall Control Efficiency: 0.0%				
124389 - CARBON DIOXIDE	120,160.0	EBFT3 - MLLION CUBIC FEET	33 - Other EF (pre-control)	372.496
Overall Control Efficiency: 0.0%				

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
CH4 - Methane	2.266	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	0.0070246
Overall Control Efficiency: 0.0%				
N2O - Nitrous Oxide	0.2266	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	0.00070246
Overall Control Efficiency: 0.0%				
FM-CON - FM Condensable	5.7	EBFT3 - MILLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.01767
Overall Control Efficiency: 0.0%				
FM-FIL - FM Filterable	1.9	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.005889999999999
Overall Control Efficiency: 0.0%				
FM10-FIL - FM10 Filterable	1.9	EBFT3 - MILLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.005889999999999
Overall Control Efficiency: 0.0%				
FM25-FIL - FM2.5 Filterable	1.9	EBFT3 - MILLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.005889999999999
Overall Control Efficiency: 0.0%				

Emission Unit ID	Unit Process ID	Throughput	Operations
009 AUXILIARY POWER UNIT 2	AUX 02 AUXILIARY POWER UNIT	Annual Throughput: 0.04 MILLION CUBIC FEET (Natural Gas) (Input)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 32.9 Seasonal Operations: Dec-Feb: 12.8%, Mar-May: 50.8%, Jun-Aug: 21.6%, Sep-Nov: 14.9%

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
SO2 - Sulfur Dioxide	0.6	EBFT3 - MILLION CUBIC FEET	28-WF - USEPA WebFIRE EF (pre-control)	0.000012
Overall Control Efficiency: 0.0%				
NOX - Nitrogen Oxides			7 - Manufacturer Specification	0.010857
Summer Day Emissions (Tons): 0.002345112				
Ozone Season Emissions (Tons): 0.004722795				
VOC - Volatile Organic Compounds			7 - Manufacturer Specification	0.004771
Summer Day Emissions (Tons): 0.001030536				
Ozone Season Emissions (Tons): 0.002075385				
CO - Carbon Monoxide			7 - Manufacturer Specification	0.04359
Summer Day Emissions (Tons): 0.00941544				
Ozone Season Emissions (Tons): 0.01896165				
75070 - Acetaldehyde	2.79	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	0.0000558
Overall Control Efficiency: 0.0%				
107028 - Acrolein	2.63	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	0.0000526
Overall Control Efficiency: 0.0%				
CH4 - Methane	2.266	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	0.00004532
Overall Control Efficiency: 0.0%				
CO2 - Carbon Dioxide	120,160.0	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	2.4032
Overall Control Efficiency: 0.0%				
N2O - Nitrous Oxide	0.2266	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	0.000004532
Overall Control Efficiency: 0.0%				
FM-CON - FM Condensable	9.91	EBFT3 - MILLION CUBIC FEET	28 - USEPA EF (pre-control)	0.0001982
Overall Control Efficiency: 0.0%				
FM-FIL - FM Filterable	10.0	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	0.0002
Overall Control Efficiency: 0.0%				
FM10-FIL - FM10 Filterable	10.0	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	0.0002
Overall Control Efficiency: 0.0%				
FM25-FIL - FM2.5 Filterable	10.0	EBFT3 - MILLION CUBIC FEET	33 - Other EF (pre-control)	0.0002
Overall Control Efficiency: 0.0%				

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
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Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	119.8
Nitrogen Oxides (NO _x)	60.4
Lead (Pb)	--
Particulate Matter (PM _{2.5}) ¹	10.6
Particulate Matter (PM ₁₀) ¹	10.6
Total Particulate Matter (TSP)	10.6
Sulfur Dioxide (SO ₂)	0.7
Volatile Organic Compounds (VOC)	18.5
Hazardous Air Pollutants ²	Potential Emissions
Acetaldehyde	0.06
Acrolein	0.02
Benzene	0.01
Ethylbenzene	0.02
Formaldehyde	2.33
Hexane	0.02
Toluene	0.10
Xylene	0.05
Regulated Pollutants other than Criteria and HAP	Potential Emissions

¹PM_{2.5} and PM₁₀ are components of TSP.
²For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Potentials-to-emit are based on currently operating equipment and permit limits as applicable and include fugitive VOC.

West Virginia Department of Environmental Protection

Harold D. Ward

Cabinet Secretary

Permit to Operate



Pursuant to

Title V

of the Clean Air Act

Issued to:

Eastern Gas Transmission and Storage, Inc.

L. L. Tonkin Compressor Station

R30-01700003-2025

Laura M. Crowder

Director, Division of Air Quality

*Issued: [Date of issuance] • Effective: [Equals issue date plus two weeks]
Expiration: [5 years after issuance date] • Renewal Application Due: [6 months prior to expiration]*

Permit Number: **R30-01700003-2025**
Permittee: **Eastern Gas Transmission and Storage, Inc.**
Facility Name: **L. L. Tonkin Compressor Station**
Permittee Mailing Address: **925 White Oaks Blvd; Bridgeport, WV 26330**

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 C Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Facility Location:	West Union, Doddridge County, West Virginia
Facility Mailing Address:	139 Tonkin Station Road; West Union, WV 26456
Telephone Number:	304-873-2641
Type of Business Entity:	Corporation
Facility Description:	Natural Gas Compressor Station
SIC Codes:	4922
UTM Coordinates:	518.82 km Easting \$ 4351.18 km Northing \$ Zone 17

Permit Writer: Natalya V. Chertkovsky-Veselova

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.

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1.0 Emission Units and Active R13, R14, and R19 Permits

1.1 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
001-01	TRB01	Turbine; Solar T-4500 Turbine #1 with Gas Compressor Configuration	1989	4,417 HP	SoLoNO _x
001-02	TRB02	Solar Centaur 50 Combustion Turbine #2 with Gas Compressor Configuration	2016	6,035 HP	SoLoNO _x
001-03	TRB03	Solar Centaur 50 Combustion Turbine #3 with Gas Compressor Configuration	2016	6,035 HP	SoLoNO _x
002-02	AUX02	Caterpillar G3516 Generator Set w/ Spark Ignition Engine Using Natural Gas	2016	1,462 HP	LEC w/AFR
004-02	BLR02	Hurst LPW-G-70-60W Boiler Natural Gas Fired	2016	2.94 MMBtu/hr	N/A
TK01	TK01	Horizontal Aboveground Storage Tank – Drip Gas	1989	3,000 – gallon	N/A
TK02	TK02	Horizontal Aboveground Storage Tank – Waste Water	1989	1,000 – gallon	N/A

1.2 Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-1077B	February 9, 2017

2.0 General Conditions

2.1 Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.39.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.
- 2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

2.2 Acronyms

CAAA	Clean Air Act Amendments	NSPS	New Source Performance Standards
CBI	Confidential Business Information	PM	Particulate Matter
CEM	Continuous Emission Monitor	PM₁₀	Particulate Matter less than 10µm in diameter
CES	Certified Emission Statement	pph	Pounds per Hour
C.F.R. or CFR	Code of Federal Regulations	ppm	Parts per Million
CO	Carbon Monoxide	PSD	Prevention of Significant Deterioration
C.S.R. or CSR	Codes of State Rules	psi	Pounds per Square Inch
DAQ	Division of Air Quality	SIC	Standard Industrial Classification
DEP	Department of Environmental Protection	SIP	State Implementation Plan
FOIA	Freedom of Information Act	SO₂	Sulfur Dioxide
HAP	Hazardous Air Pollutant	TAP	Toxic Air Pollutant
HON	Hazardous Organic NESHAP	TPY	Tons per Year
HP	Horsepower	TRS	Total Reduced Sulfur
lbs/hr or lb/hr	Pounds per Hour	TSP	Total Suspended Particulate
LDAR	Leak Detection and Repair	USEPA	United States Environmental Protection Agency
m	Thousand	UTM	Universal Transverse Mercator
MACT	Maximum Achievable Control Technology	VEE	Visual Emissions Evaluation
mm	Million	VOC	Volatile Organic Compounds
mmBtu/hr	Million British Thermal Units per Hour		
mmft³/hr or mmcf/hr	Million Cubic Feet Burned per Hour		
NA or N/A	Not Applicable		
NAAQS	National Ambient Air Quality Standards		
NESHAPS	National Emissions Standards for Hazardous Air Pollutants		
NO_x	Nitrogen Oxides		

2.3. Permit Expiration and Renewal

- 2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.
[45CSR§30-5.1.b.]
- 2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.
[45CSR§30-4.1.a.3.]
- 2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.
[45CSR§30-6.3.b.]
- 2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.
[45CSR§30-6.3.c.]

2.4. Permit Actions

- 2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[45CSR§30-5.1.f.3.]

2.5. Reopening for Cause

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
- a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.
 - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
 - c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

[45CSR§30-6.6.a.]

2.6. Administrative Permit Amendments

- 2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.
[45CSR§30-6.4.]

2.7. Minor Permit Modifications

- 2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.
[45CSR§30-6.5.a.]

2.8. Significant Permit Modification

- 2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.
[45CSR§30-6.5.b.]

2.9. Emissions Trading

- 2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.
[45CSR§30-5.1.h.]

2.10. Off-Permit Changes

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:
- a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
 - b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
 - c. The change shall not qualify for the permit shield.
 - d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
 - e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

- f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

[45CSR§30-5.9.]

2.11. Operational Flexibility

- 2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

[45CSR§30-5.8]

- 2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

[45CSR§30-5.8.a.]

- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:

- a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or
- b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

[45CSR§30-5.8.c.]

- 2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

[45CSR§30-2.40]

2.12. Reasonably Anticipated Operating Scenarios

- 2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.
- a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
 - b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
 - c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

[45CSR§30-5.1.i.]

2.13. Duty to Comply

- 2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

- 2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:
- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
 - d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

[45CSR§30-5.3.b.]

2.15. Schedule of Compliance

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
- a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
 - b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

- 2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

[45CSR§30-5.1.f.2.]

2.17. Reserved

2.18. Federally-Enforceable Requirements

- 2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.

[45CSR§30-5.2.a.]

- 2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

2.19. Duty to Provide Information

- 2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

[45CSR§30-5.1.f.5.]

2.20. Duty to Supplement and Correct Information

- 2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

[45CSR§30-4.2.]

2.21. Permit Shield

- 2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.

[45CSR§30-5.6.a.]

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

- a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
- b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.
- c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

2.22. Credible Evidence

- 2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.

[45CSR§30-5.3.e.3.B.]

2.23. Severability

- 2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.

[45CSR§30-5.1.e.]

2.24. Property Rights

- 2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.

[45CSR§30-5.1.f.4]

2.25. Acid Deposition Control

- 2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.
- a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.
 - b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.
 - c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

- 2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.

[45CSR§30-5.1.a.2.]

3.0 Facility-Wide Requirements

3.1 Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1. [45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them. [40 C.F.R. §61.145(b) and 45CSR34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public. [45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11. [45CSR§11-5.2]
- 3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality. [W.Va. Code § 22-5-4(a)(15)]
- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

[40 C.F.R. 82, Subpart F]

- 3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 CFR § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 CFR § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.

[40 C.F.R. 68]

- 3.1.9. a. No person shall cause, suffer, allow or permit fugitive particulate matter to be discharged beyond the boundary lines of the property on which the discharge originates or at any public or residential location, which causes or contributes to statutory air pollution.
- b. When a person is found in violation of 45CSR17, the Director may require the person to utilize a system to minimize fugitive particulate matter. This system to minimize fugitive particulate matter may include, but is not limited to, the following:
 - 1. Use, where practicable, of water or chemicals for control of particulate matter in demolition of existing buildings or structures, construction operations, grading of roads or the clearing of land;
 - 2. Application of asphalt, water or suitable chemicals on unpaved roads, material stockpiles and other surfaces which can create airborne particulate matter;
 - 3. Covering of material transport vehicles, or treatment of cargo, to prevent contents from dripping, sifting, leaking or otherwise escaping and becoming airborne, and prompt removal of tracked material from roads or streets; or
 - 4. Installation and use of hoods, fans and fabric filters to enclose and vent the handling of materials, including adequate containment methods during sandblasting, abrasive cleaning or other similar operations.

[45CSR§17-3] (State-Enforceable Only)

- 3.1.10. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.

[45CSR13, R13-1077, 4.1.5.]

3.2. Monitoring Requirements

- 3.2.1. None.

3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or

established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit shall be revised in accordance with 45CSR§30-6.4 or 45CSR§30-6.5 as applicable.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.
- d. The permittee shall submit a report of the results of the stack test within 60 days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
 1. The permit or rule evaluated, with the citation number and language.
 2. The result of the test for each permit or rule condition.
 3. A statement of compliance or non-compliance with each permit or rule condition.

[WV Code §§ 22-5-4(a)(15-16) and 45CSR13]

3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:

- a. The date, place as defined in this permit and time of sampling or measurements;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of the analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A.; 45CSR13, R13-1077, 4.4.1]

- 3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.

[45CSR§30-5.1.c.2.B.]

- 3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.

[45CSR§30-5.1.c. State-Enforceable only.]

- 3.4.4. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.

[45CSR13, R13-1077, 4.4.2.]

- 3.4.5. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

- a. The equipment involved.
- b. Steps taken to minimize emissions during the event.
- c. The duration of the event.
- d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.

- f. Steps taken to correct the malfunction.
- g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

[45CSR13, R13-1077, 4.4.3.]

3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
[45CSR§§30-4.4. and 5.1.c.3.D.]
- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3 pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
[45CSR§30-5.1.c.3.E.]
- 3.5.3. Except for the electronic submittal of the annual compliance certification and semi-annual monitoring reports to the DAQ and USEPA as required in 3.5.5 and 3.5.6 below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class or by private carrier with postage prepaid to the address(es), or submitted in electronic format by e-mail as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

US EPA:

Section Chief
U. S. Environmental Protection Agency, Region III
Enforcement and Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

DAQ Compliance and Enforcement¹:

DEPAirQualityReports@wv.gov

¹For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, Notice of Compliance Status reports, Initial Notifications, etc.

- 3.5.4. **Fees.** The permittee shall pay fees on an annual basis in accordance with 45CSR§30-8.
[45CSR§30-8.]
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual

certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. The annual certification shall be submitted in electronic format by e-mail to the following addresses:

DAQ:
DEPAirQualityReports@wv.gov

US EPA:
R3_APD_Permits@epa.gov

[45CSR§30-5.3.e.]

- 3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. The semi-annual monitoring reports shall be submitted in electronic format by e-mail to the following address:

DAQ:
DEPAirQualityReports@wv.gov

[45CSR§30-5.1.c.3.A.]

- 3.5.7. **Reserved.**

- 3.5.8. **Deviations.**

- a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:
1. Reserved.
 2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or email. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
 3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
 4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

- b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventative measures taken in accordance with any rules of the Secretary.

[45CSR§30-5.1.c.3.B.]

- 3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.
[45CSR§30-4.3.h.1.B.]

3.6. Compliance Plan

- 3.6.1. None.

3.7. Permit Shield

- 3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.
- 3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.
- a. 40 C.F.R. 60 Subpart OOOO – This subpart does not apply to the facility since the facility is a transmission facility that has tanks with potential emissions below 6 tons VOC/yr and additionally those tanks have not been constructed, modified, or reconstructed after August 23, 2011 and on or before September 18, 2015.
 - b. 40 C.F.R. 63 Subpart HH – This subpart does not apply to the facility since the facility is not a natural gas production facility.
 - c. 40 C.F.R. 63 Subpart HHH – This subpart does not apply to the facility since the facility is not a major source of HAPs.
 - d. 40 C.F.R. 63 Subpart DDDDD – The boiler (BLR02) is not subject to this subpart since the facility is not a major source of HAPs.
 - e. 40 C.F.R. 63 Subpart JJJJJ – The boiler (BLR02) is not subject to this subpart since it is not considered “gas-fired boiler” (i.e. burn only natural gas) and is exempt based on 40 CFR §63.11195(e).
 - f. 40 C.F.R. 64 – Potential pre-control device emissions from the pollutant-specific emission units are below the major source thresholds. Therefore, according to 40 CFR §64.2(a), CAM is not applicable to any pollutant-specific emission units at this facility.

4.0. Turbines and Boiler [emission unit ID(s): 001-01, 001-02, 001-03, 004-02]

4.1. Limitations and Standards

4.1.1. The following conditions and requirements are specific to Combustion Turbine#1 (ID 001-01):

- a. Emissions from the combustion turbine shall not exceed the following:
 - i. Emissions of nitrogen oxides (NO_x) shall not exceed 153 ppmvd at 15 percent oxygen. Annual NO_x emissions from the turbine shall not exceed 28.63 tpy on a 12-month rolling total.
[45CSR16; 40 CFR §60.332(a)(2)]
 - ii. Emissions of CO from the combustion turbine (001-01) shall not exceed 44.16 tons per year, on a rolling 12 month total basis.
 - iii. The combustion turbine shall not combust any fuel (natural gas) which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). For purposes of demonstrating compliance with this limit, the permittee shall maintain the Federal Energy Regulatory Commission (FERC) tariff limit on total sulfur content of 20 grains of sulfur or less per 100 standard cubic feet of natural gas combusted in the turbine.
[45CSR16; 40 CFR §60.333(b), §§60.334(h) & (h)(3)(i)]
 - iv. Emissions of VOCs shall not exceed 1.55 tons per year, on a rolling 12 month total basis. This limit does not apply to the fugitives from the compressor.
- b. The turbine shall only be fired with pipeline-quality natural gas.
- c. As part of upgrading the turbine, the permittee shall install, operate, and maintain the SoLoNO_x system (lean-premix combustion technology) to reduce NO_x emissions. The permittee shall maintain the turbine and SoLoNO_x in accordance with the manufacturer's recommendations and tune the system

[45CSR13, R13-1077, 4.1.1]

4.1.2. The following conditions and requirements are specific to Combustion Turbines #2 and #3 (ID 001-02 & 001-03):

- a. Emissions from each combustion turbine shall not exceed the following:
 - i. Emissions of nitrogen oxides (NO_x) shall be controlled with the combustion controls when ambient temperatures are above 0°F and the load is at or above 50%. Each turbine shall not discharge nitrogen oxides (NO_x) emissions in excess of 25 ppm at 15 percent O₂ when operating at load conditions at or above 75 percent of peak load and/or when operating temperatures are at or above 0°F. When the operating loads of the turbine are less than 75% of peak load and/or operating temperatures are less than 0°F, NO_x emissions rate from the turbine shall not exceed 150 ppm at 15 percent O₂. Annual NO_x emissions from each turbine shall not exceed 14.43 tpy on a 12-month rolling total.

This limit applies at all times, including periods of startup, shutdown, or malfunction.

[45CSR16; 40CFR§60.4320(a), Table 1 to Subpart KKKK of Part 60 – Nitrogen Oxide Emission Limits for New Stationary Combustion Turbines]

- ii. Emissions of CO from each combustion turbine shall not exceed 36.50 tons per year, on a rolling 12 month total basis.

iii. Emissions of SO₂ shall not exceed 0.060 lb of SO₂/MMBtu heat input. For purposes of demonstrating compliance with this limit, the permittee shall maintain the Federal Energy Regulatory Commission (FERC) tariff limit on total sulfur content of 20 grains of sulfur or less per 100 standard cubic feet of natural gas combusted in the turbines.

[45CSR16; 40 CFR §§60.4330(a)(2) & 60.4365(a)]

iv. Emissions of VOC from each turbine shall not exceed 1.87 tons per year, on a rolling 12 month total basis. This limit does not apply to the fugitives from the compressor.

b. Each turbine shall only be fired with pipeline-quality natural gas.

c. The permittee must operate and maintain each turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

[45CSR16; 40 CFR §60.4333(a)]

[45CSR13, R13-1077, 4.1.2]

4.1.3. The following conditions and requirements are specific to the boiler (ID #004-02):

a. NO_x emissions emitted to the atmosphere from the boiler shall not exceed 1.26 tons per year on a 12 month rolling total.

b. CO emissions emitted to the atmosphere from the boiler shall not exceed 1.06 tons per year on a 12 month rolling total.

c. The boiler shall only be fired with pipeline quality natural gas.

d. The heater shall not be designed or constructed with a maximum design heat input in excess of 2.94 MMBtu/hr. Compliance with this limit shall be through fuel usage that indicates the total amount of natural gas fuel during any 12 consecutive months is less than 25.25 MM cubic feet. Satisfying compliance with this limit demonstrates compliance with the annual emissions limits in items a and b of this condition.

[45CSR13, R13-1077, 4.1.3]

4.1.4. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.

[45CSR§2-3.1.] [004-02]

4.2. Monitoring Requirements

4.2.1. For the purpose of determining compliance with the annual limits for each combustion turbine (001-01, 001-02 & 001-03), the permittee shall monitor and record the following for each calendar month:

a. Hours the turbine operated at normal conditions (SoLoNO_x Mode), which is when the turbine is at or above 50% load, and the ambient temperature is above 0°F.

b. Hours the turbine operated at low-load conditions, which is when the turbine load is less than 50% load. The time for start-up and shutdown of the turbine shall be accounted for under this type of operation.

- c. Hours the turbine operated at low temperature conditions, which is when the ambient temperature is less than 0°F.

Such records shall be maintained in accordance with Condition 3.4.2.

[45CSR13, R13-1077, 4.2.1]

- 4.2.2. To demonstrate compliance with Condition 4.1.3, the permittee shall maintain records of the amount of natural gas consumed in the boiler 004-02 for each calendar month and calculate the 12 month rolling total of natural gas consumed by the boiler. Such records shall be maintained in accordance with Condition 3.4.2.
[45CSR13, R13-1077, 4.2.2]

4.3. Testing Requirements

- 4.3.1. For the purposes of demonstrating compliance with the NOx emission standards in Condition 4.1.2(a)(i) and 40 CFR §60.4320(a), performance testing shall be conducted annually for turbines 001-02 and 001-03 (no more than 14 months following the previous test) unless the previous results demonstrate that the affected units achieved compliance of less than or equal to 75 percent of the NOx emission limit (18.75 ppm @ 15% Oxygen), then the permittee may reduce the frequency of subsequent tests to once every two years (no more than 26 calendar months following the previous test) as allowed under 40 CFR §60.4340(a). If the results of any subsequent performance test exceed 75 percent of the NOx emission limit, then the permittee must resume annual performance tests. Such testing shall be conducted in accordance with Condition 3.3.1 and 40 CFR §60.4400. Records of such testing shall be maintained in accordance with Condition 3.4.2.
[45CSR13, R13-1077, 4.3.2; 45CSR16; 40 CFR §60.8(a), §60.4340(a), §60.4375(b), and §60.4400]

4.4. Recordkeeping Requirements

- 4.4.1. Compliance with the annual emission limits in 4.1.1 and 4.1.2. of this permit shall be based on a rolling 12 month total. The emissions from each turbine shall be determined monthly using the following equation:

$$MEP_x = DLNP_x * DLN \text{ hours} + LLP_x * LL \text{ hours} + LTP_x * LT \text{ hours}$$

Where:

MEP_x = Monthly emissions of Pollutant X

DLNP_x = Hourly emission rate of Pollutant X during normal operation

DLN = Number of hours of normal operation in said month

LLP_x = Hourly emission rate of Pollutant X during low load (<50%) operation (start-up and shutdown periods)

LL = Number of hours of low load operation in said month

LTP_x = Hourly emission rate of Pollutant X during low temperatures (<0°F)

LT = Number of hours of low temperature operation in said month

Hourly emission rates used in the above calculation shall be based on best available data which is data collected during source specific testing, the data for specific model turbine provided or published by the manufacturer. This determination shall be performed within 30 days after the end of the calendar month and the monthly emissions shall be summed for the preceding 12 months to determine compliance with the annual limits in Conditions 4.1.1(a) and 4.1.2(a). Records of the monthly total and 12 month rolling totals shall be maintained in accordance with Condition 3.4.2.

[45CSR13, R13-1077, 4.4.4]

- 4.4.2. The permittee shall maintain current and valid documentation that the natural gas consumed by the combustion turbines specifying that the maximum total sulfur content is 20 grains of sulfur or less per 100 cubic feet of natural gas. Said documentation can be purchase contracts, tariff sheets, or transportation contracts. Such records shall be maintained in accordance with Condition 3.4.2, except that these records can be maintained off-site but must be made available for inspection within 15 days of the request. By satisfying this requirement the permittee is exempted from the total sulfur monitoring requirement of §60.334(h)(1) for 001-01 and §60.4360 for 001-02 & 001-03. These records satisfy Conditions 4.1.1.a.iii, and 4.1.2.a.iii.

[45CSR13, R13-1077, 4.4.5; 45CSR16; 40 CFR §60.334(h)(3)(i) & §60.4365(a)]

4.5. Reporting Requirements

- 4.5.1. For each affected unit that performs annual performance tests in accordance with 40CFR§60.4340(a), the permittee must submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test.

[45CSR16; 40CFR§60.4375(b)]

4.6. Compliance Plan

- 4.6.1. None

5.0. SI NSPS Requirements [emission unit ID(s): 002-02]

5.1. Limitations and Standards

5.1.1. The following conditions and requirements are specific to the internal combustion engine for the emergency generator set identified as 002-02:

- a. Maximum emissions from the 1,462 hp Caterpillar G3516 (002-02) natural gas fired emergency generator equipped with AFR shall not exceed the following limits:

Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
Nitrogen Oxides	6.45	1.61
Carbon Monoxide	6.19	1.55
Volatile Organic Compounds (excludes aldehydes)	0.74	0.19
Total Volatile Organic Compounds ¹	1.74	0.44
Formaldehyde	1.00	0.25

¹ Total VOCs consists of the VOC (excluding aldehydes) emission rate plus the formaldehyde emission rate

Compliance with these emission limits will ensure compliance with 40 CFR §60.4233(e) and Table 1 to 40CFR 60, Subpart JJJJ.

- b. Compliance with the limits in Item a. shall be determined using the appropriate equations listed in 40 CFR §60.4244.
- c. There is no time limit on the use of the engine in emergency situations. The engine can operate for non-emergency purposes, which include maintenance and testing, and other non-emergency use for a maximum of 100 hours per year. Within the 100 hours per year, the engine can only operate:
- i. 50 hours per year for non-emergency use. The non-emergency situations cannot be used for peak shaving or to generate income for the facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

The operating limits imposed in this condition are on a calendar year basis.

[45CSR16; 40 CFR §60.4243(d)]

- d. The engine shall be equipped with a non-resettable hour-meter prior to start-up.
[45CSR16; 40 CFR §60.4237(a)]
- e. The permittee shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engines in a manner consistent with good air pollution control practice for minimizing emissions.
[45CSR16; 40 CFR §60.4243(b)(2)(ii)]
- f. The engine shall only be fired with pipeline quality natural gas.

[45CSR13, R13-1077, 4.1.4.]

- 5.1.2. The permittee must operate and maintain stationary SI ICE that achieve the emission standards as required in condition 5.1.1.a. over the entire life of the engine.
[45CSR16; 40 CFR §60.4234]
- 5.1.3. It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.
[45CSR16; 40 CFR §60.4243(g)]
- 5.1.4. The permittee shall comply with the general provisions of 40 CFR 60 with the exceptions of 40 CFR §§60.13 and 18, as specified in Table 3 to 40 CFR 60, Subpart JJJJ.
[45CSR16; 40 CFR §60.4246]

5.2. Monitoring Requirements

- 5.2.1. The permittee shall keep records of the hours of operation for the engine identified as 002-02. The records must document how many hours are spent for emergency operation, including what classified the operation as an emergency, and how many hours spent for non-emergency operation. Such records shall be maintained in accordance with Condition 3.4.2 and must be in a manner to demonstrate compliance with the operating limits of Condition 5.1.1.c.
[45CSR13, R13-1077, 4.2.3.; 45CSR16; 40 CFR §60.4245(b)]

5.3. Testing Requirements

- 5.3.1. For the purposes of demonstrating compliance with the emission standards in Condition 5.1.1 and 40 CFR §60.4233(e), the permittee shall conduct an initial performance test within one year after initial startup. After the initial test, subsequent performance testing shall be conducted every 8,760 hours of operation or 3 years, whichever comes first. If the engine is not operational, the permittee must conduct the performance test immediately upon startup of the engine. These tests must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements of §60.8, under the specific conditions that are specified by Table 2 to Subpart JJJJ of Part 60 – Requirements for Performance Test, and in accordance with Condition 3.3.1 of this permit. Records of such testing shall be maintained in accordance with Condition 3.4.2. of this permit.
[45CSR13, R13-1077, 4.3.3.; 45CSR16; 40 CFR §§60.8(a), 60.4243(b)(2)(ii), and 60.4244]
- 5.3.2. Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in paragraphs (a) through (f) of this condition.
 - a. Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in §60.8 and under the specific conditions that are specified by Table 2 to this subpart.
 - b. You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.

- c. You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.
- d. To determine compliance with the NO_x mass per unit output emission limitation, convert the concentration of NO_x in the engine exhaust using Equation 1 of this condition:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{HP - hr} \quad (Eq. 1)$$

Where:

ER = Emission rate of NO_x in g/HP-hr.

C_d = Measured NO_x concentration in parts per million by volume (ppmv).

1.912×10⁻³ = Conversion constant for ppm NO_x to grams per standard cubic meter at 20 °C.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, horsepower-hour (HP-hr).

- e. To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of this condition:

$$ER = \frac{C_d \times 1.164 \times 10^{-3} \times Q \times T}{HP - hr} \quad (Eq. 2)$$

Where:

ER = Emission rate of CO in g/HP-hr.

C_d = Measured CO concentration in ppmv.

1.164×10⁻³ = Conversion constant for ppm CO to grams per standard cubic meter at 20 °C.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

- f. For purposes of this subpart, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of this condition:

$$ER = \frac{C_d \times 1.833 \times 10^{-3} \times Q \times T}{HP - hr} \quad (Eq. 3)$$

ER = Emission rate of VOC in g/HP-hr.

Cd = VOC concentration measured as propane in ppmv.

1.833×10^{-3} = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

- g. If the owner/operator chooses to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of this condition. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of this condition.

$$RF_i = \frac{C_{Mi}}{C_{Ai}} \quad (Eq. 4)$$

Where:

RF_i = Response factor of compound i when measured with EPA Method 25A.

C_{Mi} = Measured concentration of compound i in ppmv as carbon.

C_{Ai} = True concentration of compound i in ppmv as carbon.

$$C_{icorr} = RF_i \times C_{imeas} \quad (Eq. 5)$$

Where:

C_{icorr} = Concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.

C_{imeas} = Concentration of compound i measured by EPA Method 320, ppmv as carbon.

$$C_{Peq} = 0.6098 \times C_{icorr} \quad (Eq. 6)$$

Where:

C_{Peq} = Concentration of compound i in mg of propane equivalent per DSCM.

[45CSR16; 40 CFR §60.4244]

5.4. Recordkeeping Requirements

5.4.1. Owners or operators of stationary SI ICE must meet the following recordkeeping requirements.

- a. The permittee must keep the following records:
 1. All notifications submitted to comply with this subpart and all documentation supporting any notification.
 2. Maintenance conducted on the engine.
 3. If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 1048, 1054, and 1060, as applicable.
 4. If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

[45CSR16; 40 CFR §60.4245(a)]

5.5. Reporting Requirements

5.5.1. If the permittee owns or operates an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates for the purpose specified in 40 CFR §60.4243(d)(3)(i), the permittee must submit an annual report according to the following requirements:

- a. The report must contain the following information:
 - i. Company name and address where the engine is located.
 - ii. Date of the report and beginning and ending dates of the reporting period.
 - iii. Engine site rating and model year.
 - iv. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
 - v. Hours spent for operation for the purposes specified in 40 CFR §60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR §60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
- b. The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
- c. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central

Data Exchange (CDX) (<https://cdx.epa.gov/>). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR §60.4. Beginning on February 26, 2025, submit annual report electronically according to 40 CFR §60.4245(g).

[45CSR16; 40 CFR §60.4245(e)]

- 5.5.2. Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in 40CFR§60.4244 within 60 days after the test has been completed. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference—see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedures in Annexes 1-7. Beginning on February 26, 2025, submit annual report electronically according to 40 CFR §60.4245(f).

[45CSR16; 40 CFR §60.4245(d)]

5.6. Compliance Plan

- 5.6.1. None.

6.0. 40 CFR 60, Subpart OOOOa Requirements [emission unit ID(s): fugitives]

6.1. Limitations and Standards

- 6.1.1. For each affected facility under §60.5365a(j), you must reduce GHG (in the form of a limitation on emissions of methane) and VOC emissions by complying with the requirements of paragraphs (a) through (j) of §60.5397a. These requirements are independent of the closed vent system and cover requirements in §60.5411a.
- a. You must monitor all fugitive emission components, as defined in §60.5430a, in accordance with 40 CFR §§60.5397a(b) through (g). You must repair all sources of fugitive emissions in accordance with 40 CFR §60.5397a(h). You must keep records in accordance with 40 CFR §60.5397a(i) and report in accordance with 40 CFR §60.5397a(j). For purposes of this section, fugitive emissions are defined as any visible emission from a fugitive emissions component observed using optical gas imaging or an instrument reading of 500 parts per million (ppm) or greater using Method 21 of appendix A-7 to 40 CFR 60.
 - b. You must develop an emissions monitoring plan that covers the collection of fugitive emissions components at well sites and compressor stations within each company-defined area in accordance with 40 CFR §§60.5397a(c) and (d).
 - c. Fugitive emissions monitoring plans must include the elements specified in 40 CFR §§60.5397a(c)(1) through (8), at a minimum.
 1. Frequency for conducting surveys. Surveys must be conducted at least as frequently as required by 40 CFR §§60.5397a(f) and (g).
 2. Technique for determining fugitive emissions (i.e., Method 21 at 40 CFR part 60, appendix A-7, or optical gas imaging meeting the requirements of 40 CFR §§60.5397a(c)(7)(i) through (vii)).
 3. Manufacturer and model number of fugitive emissions detection equipment to be used.
 4. Procedures and timeframes for identifying and repairing fugitive emissions components from which fugitive emissions are detected, including timeframes for fugitive emission components that are unsafe to repair. Your repair schedule must meet the requirements of 40 CFR §60.5397a(h) at a minimum.
 5. Procedures and timeframes for verifying fugitive emission component repairs.
 6. Records that will be kept and the length of time records will be kept.
 7. If you are using optical gas imaging, your plan must also include the elements specified in 40 CFR §§60.5397a(c)(7)(i) through (vii).
 - i. Verification that your optical gas imaging equipment meets the specifications of 40 CFR §§60.5397a(c)(7)(i)(A) and (B). This verification is an initial verification and may either be performed by the facility, by the manufacturer, or by a third party. For the purposes of complying with the fugitive emissions monitoring program with optical gas imaging, a fugitive emission is defined as any visible emissions observed using optical gas imaging.

- A. Your optical gas imaging equipment must be capable of imaging gases in the spectral range for the compound of highest concentration in the potential fugitive emissions.
 - B. Your optical gas imaging equipment must be capable of imaging a gas that is half methane, half propane at a concentration of 10,000 ppm at a flow rate of ≤ 60 g/hr from a quarter inch diameter orifice.
 - ii. Procedure for a daily verification check.
 - iii. Procedure for determining the operator's maximum viewing distance from the equipment and how the operator will ensure that this distance is maintained.
 - iv. Procedure for determining maximum wind speed during which monitoring can be performed and how the operator will ensure monitoring occurs only at wind speeds below this threshold.
 - v. Procedures for conducting surveys, including the items specified in 40 CFR §§60.5397a(c)(7)(v)(A) through (C).
 - A. How the operator will ensure an adequate thermal background is present in order to view potential fugitive emissions.
 - B. How the operator will deal with adverse monitoring conditions, such as wind.
 - C. How the operator will deal with interferences (e.g., steam).
 - vi. Training and experience needed prior to performing surveys.
 - vii. Procedures for calibration and maintenance. At a minimum, procedures must comply with those recommended by the manufacturer.
8. If you are using Method 21 of appendix A-7 of this part, your plan must also include the elements specified in 40 CFR §§60.5397a(c)(8)(i) through (iii). For the purposes of complying with the fugitive emissions monitoring program using Method 21 a fugitive emission is defined as an instrument reading of 500 ppm or greater.
- i. Verification that your monitoring equipment meets the requirements specified in Section 6.0 of Method 21 at 40 CFR part 60, appendix A-7. For purposes of instrument capability, the fugitive emissions definition shall be 500 ppm or greater methane using a FID-based instrument. If you wish to use an analyzer other than a FID-based instrument, you must develop a site-specific fugitive emission definition that would be equivalent to 500 ppm methane using a FID-based instrument (e.g., 10.6 eV PID with a specified isobutylene concentration as the fugitive emission definition would provide equivalent response to your compound of interest).
 - ii. Procedures for conducting surveys. At a minimum, the procedures shall ensure that the surveys comply with the relevant sections of Method 21 at 40 CFR part 60, appendix A-7, including Section 8.3.1.
 - iii. Procedures for calibration. The instrument must be calibrated before use each day of its use by the procedures specified in Method 21 of appendix A-7 of this part. At a minimum, you must also conduct precision tests at the interval specified in Method 21 of appendix A-7 of this part,

Section 8.1.2, and a calibration drift assessment at the end of each monitoring day. The calibration drift assessment must be conducted as specified in paragraph (c)(8)(iii)(A) of this section. Corrective action for drift assessments is specified in paragraphs (c)(8)(iii)(B) and (C) of this section.

(A) Check the instrument using the same calibration gas that was used to calibrate the instrument before use. Follow the procedures specified in Method 21 of appendix A-7 of this part, Section 10.1, except do not adjust the meter readout to correspond to the calibration gas value. If multiple scales are used, record the instrument reading for each scale used. Divide the arithmetic difference of the initial and post-test calibration response by the corresponding calibration gas value for each scale and multiply by 100 to express the calibration drift as a percentage.

(B) If a calibration drift assessment shows a negative drift of more than 10 percent, then all equipment with instrument readings between the fugitive emission definition multiplied by (100 minus the percent of negative drift/divided by 100) and the fugitive emission definition that was monitored since the last calibration must be re-monitored.

(C) If any calibration drift assessment shows a positive drift of more than 10 percent from the initial calibration value, then, at the owner/operator's discretion, all equipment with instrument readings above the fugitive emission definition and below the fugitive emission definition multiplied by (100 plus the percent of positive drift/divided by 100) monitored since the last calibration may be re-monitored.

- d. Each fugitive emissions monitoring plan must include the elements specified in 40 CFR §§60.5397a(d)(1) through (3), at a minimum, as applicable.
 1. If you are using optical gas imaging, your plan must include procedures to ensure that all fugitive emissions components are monitored during each survey. Example procedures include, but are not limited to, a sitemap with an observation path, a written narrative of where the fugitive emissions components are located and how they will be monitored, or an inventory of fugitive emissions components.
 2. If you are using Method 21 of appendix A-7 of 40 CFR 60, your plan must include a list of fugitive emissions components to be monitored and method for determining location of fugitive emissions components to be monitored in the field (e.g. tagging, identification on a process and instrumentation diagram, etc.).
 3. Your fugitive emissions monitoring plan must include the written plan developed for all of the fugitive emissions components designated as difficult-to-monitor in accordance with 40 CFR §60.5397a(g)(3) of this section, and the written plan for fugitive emissions components designated as unsafe-to-monitor in accordance with 40 CFR §60.5397a(g)(4).
- e. Each monitoring survey shall observe each fugitive emissions component, as defined in §60.5430a, for fugitive emissions.
- f.
 1. You must conduct an initial monitoring survey within 90 days of the startup of production, as defined in §60.5430a, for each collection of fugitive emissions components at a new well site or by June 3, 2017, whichever is later. For a modified collection of fugitive emissions components at a well site, the initial monitoring survey must be conducted within 90 days of the startup of production for each collection of fugitive emissions components after the modification or by June 3, 2017, whichever is later.

2. You must conduct an initial monitoring survey within 90 days of the startup of a new compressor station for each collection of fugitive emissions components at the new compressor station or by June 3, 2017, whichever is later. For a modified collection of fugitive emissions components at a compressor station, the initial monitoring survey must be conducted within 90 days of the modification or by June 3, 2017, whichever is later.
- g. A monitoring survey of each collection of fugitive emissions components at a well site or at a compressor station must be performed at the frequencies specified in 40 CFR §§60.5397a(g)(1) and (2), with the exceptions noted in 40 CFR §§60.5397a(g)(3) through (6).
 1. A monitoring survey of each collection of fugitive emissions components at a well site must be conducted at least semiannually after the initial survey. Consecutive semiannual monitoring surveys must be conducted at least 4 months apart and no more than 7 months apart.
 2. A monitoring survey of the collection of fugitive emissions components at a compressor station must be conducted at least quarterly after the initial survey. Consecutive quarterly monitoring surveys must be conducted at least 60 days apart.
 3. Fugitive emissions components that cannot be monitored without elevating the monitoring personnel more than 2 meters above the surface may be designated as difficult-to-monitor. Fugitive emissions components that are designated difficult-to-monitor must meet the specifications of 40 CFR §§60.5397a(g)(3)(i) through (iv).
 - i. A written plan must be developed for all of the fugitive emissions components designated difficult-to-monitor. This written plan must be incorporated into the fugitive emissions monitoring plan required by 40 CFR §§60.5397a(b), (c), and (d).
 - ii. The plan must include the identification and location of each fugitive emissions component designated as difficult-to-monitor.
 - iii. The plan must include an explanation of why each fugitive emissions component designated as difficult-to-monitor is difficult-to-monitor.
 - iv. The plan must include a schedule for monitoring the difficult-to-monitor fugitive emissions components at least once per calendar year.
 4. Fugitive emissions components that cannot be monitored because monitoring personnel would be exposed to immediate danger while conducting a monitoring survey may be designated as unsafe-to-monitor. Fugitive emissions components that are designated unsafe-to-monitor must meet the specifications of 40 CFR §§60.5397a(g)(4)(i) through (iv).
 - i. A written plan must be developed for all of the fugitive emissions components designated unsafe-to-monitor. This written plan must be incorporated into the fugitive emissions monitoring plan required by 40 CFR §§60.5397a(b), (c), and (d).
 - ii. The plan must include the identification and location of each fugitive emissions component designated as unsafe-to-monitor.
 - iii. The plan must include an explanation of why each fugitive emissions component designated as unsafe-to-monitor is unsafe-to-monitor.

- iv. The plan must include a schedule for monitoring the fugitive emissions components designated as unsafe-to-monitor.
- 5. You are no longer required to comply with the requirements of 40 CFR §60.5397a (g)(1) when the owner or operator removes all major production and processing equipment, as defined in 40 CFR §60.5430a, such that the well site becomes a wellhead only well site. If any major production and processing equipment is subsequently added to the well site, then the owner or operator must comply with the requirements in 40 CFR §§60.5397a(f)(1) and (g)(1).
- 6. The requirements of 40 CFR §60.5397a(g)(2) are waived for any collection of fugitive emissions components at a compressor station located within an area that has an average calendar month temperature below 0°Fahrenheit for two of three consecutive calendar months of a quarterly monitoring period. The calendar month temperature average for each month within the quarterly monitoring period must be determined using historical monthly average temperatures over the previous three years as reported by a National Oceanic and Atmospheric Administration source or other source approved by the Administrator. The requirements of 40 CFR §60.5397a(g)(2) shall not be waived for two consecutive quarterly monitoring periods.
- h. Each identified source of fugitive emissions shall be repaired, as defined in 40 CFR §§60.5430a, in accordance with 40 CFR §§60.5397a(h)(1) and (2).
 - 1. A first attempt to repair shall be made no later than 30 calendar days after detection of the fugitive emissions.
 - 2. Repair shall be completed as soon as practicable, but no later than 30 calendar after the first attempt at repair as required in 40 CFR §60.5397a(h)(1).
 - 3. Delay of repair will be allowed if the conditions in 40 CFR §60.5397a(h)(3)(i) or (ii) are met.
 - i. If the repair is technically infeasible, would require a vent blowdown, a compressor station shutdown, a well shutdown or well shut-in, or would be unsafe to repair during operation of the unit, the repair must be completed during the next scheduled compressor station shutdown for maintenance, scheduled well shutdown, scheduled well shut-in, after a scheduled vent blowdown, or within 2 years of detecting the fugitive emissions, whichever is earliest. For purposes of 40 CFR §60.5397a(h)(3), a vent blowdown is the opening of one or more blowdown valves to depressurize major production and processing equipment, other than a storage vessel.
 - ii. If the repair requires replacement of a fugitive emissions component or a part thereof, but the replacement cannot be acquired and installed within the repair timelines specified in 40 CFR §§60.5397a(h)(1) and (2) due to either of the conditions specified in 40 CFR §§60.5397a(h)(3)(ii)(A) or (B), the repair must be completed in accordance with 40 CFR §60.5397a(h)(3)(ii)(C) and documented in accordance with 40 CFR §60.5420a(c)(15)(vii)(I).
 - (A) Valve assembly supplies had been sufficiently stocked but are depleted at the time of the required repair.
 - (B) A replacement fugitive emissions component or a part thereof requires custom fabrication.
 - (C) The required replacement must be ordered no later than 10 calendar days after the first attempt at repair. The repair must be completed as soon as practicable, but no later than 30 calendar days after receipt of the replacement component, unless the repair requires a

compressor station or well shutdown. If the repair requires a compressor station or well shutdown, the repair must be completed in accordance with the timeframe specified in 40 CFR §60.5397a(h)(3)(i).

4. Each identified source of fugitive emissions must be resurveyed to complete repair according to the requirements in 40 CFR §§60.5397a(h)(4)(i) through (iv), to ensure that there are no fugitive emissions.
 - i. The operator may resurvey the fugitive emissions components to verify repair using either Method 21 of appendix A-7 of 40 CFR 60 or optical gas imaging.
 - ii. For each repair that cannot be made during the monitoring survey when the fugitive emissions are initially found, a digital photograph must be taken of that component or the component must be tagged during the monitoring survey when the fugitives were initially found for identification purposes and subsequent repair. The digital photograph must include the date that the photograph was taken and must clearly identify the component by location within the site (*e.g.*, the latitude and longitude of the component or by other descriptive landmarks visible in the picture).
 - iii. Operators that use Method 21 of appendix A-7 of 40 CFR 60 to resurvey the repaired fugitive emissions components are subject to the resurvey provisions specified in 40 CFR §§60.5397a(h)(4)(iii)(A) and (B).
 - A. A fugitive emissions component is repaired when the Method 21 instrument indicates a concentration of less than 500 ppm above background or when no soap bubbles are observed when the alternative screening procedures specified in section 8.3.3 of Method 21 are used.
 - B. Operators must use the Method 21 monitoring requirements specified in 40 CFR §60.5397a(c)(8)(ii) or the alternative screening procedures specified in section 8.3.3 of Method 21.
 - iv. Operators that use optical gas imaging to resurvey the repaired fugitive emissions components, are subject to the resurvey provisions specified in 40 CFR §§60.5397a(h)(4)(iv)(A) and (B).
 - A. A fugitive emissions component is repaired when the optical gas imaging instrument shows no indication of visible emissions.
 - B. Operators must use the optical gas imaging monitoring requirements specified in 40 CFR §60.5397a(c)(7).
- j. Records for each monitoring survey shall be maintained as specified §60.5420a(c)(15).
- k. Annual reports shall be submitted for each collection of fugitive emissions components at a well site and each collection of fugitive emissions components at a compressor station that include the information specified in §60.5420a(b)(7). Multiple collection of fugitive emissions components at a well site or at a compressor station may be included in a single annual report.

[45CSR16; 40 CFR §60.5397a]

- 6.1.2. You must determine initial compliance with the standards for each affected facility. The initial compliance period begins on August 2, 2016, or upon initial startup, whichever is later, and ends no later than 1 year after

the initial startup date for your affected facility or no later than 1 year after August 2, 2016. The initial compliance period may be less than one full year.

- a. To achieve initial compliance with the fugitive emission standards for each collection of fugitive emissions components at a well site and each collection of fugitive emissions components at a compressor station, you must comply with paragraphs (j)(1) through (5) of 40CFR§60.5410a.
 1. You must develop a fugitive emissions monitoring plan as required in §60.5397a(b)(c), and (d).
 2. You must conduct an initial monitoring survey as required in §60.5397a(f).
 3. You must maintain the records specified in §60.5420a(c)(15).
 4. You must repair each identified source of fugitive emissions for each affected facility as required in §60.5397a(h).
 5. You must submit the initial annual report for each collection of fugitive emissions components at a well site and each collection of fugitive emissions components at a compressor station as required in §60.5420a(b)(1) and (7).

[45CSR16; 40 CFR §60.5410a(j)]

- 6.1.3. For each collection of fugitive emissions components at a well site and each collection of fugitive emissions components at a compressor station, you must demonstrate continuous compliance with the fugitive emission standards specified in §60.5397a(a)(1) according to the following paragraphs:
 - a. You must conduct periodic monitoring surveys as required in §60.5397a(g).
 - b. You must repair each identified source of fugitive emissions as required in §60.5397a(h).
 - c. You must maintain records as specified in §60.5420a(c)(15).
 - d. You must submit annual reports for collection of fugitive emissions components at a well site and each collection of fugitive emissions components at a compressor station as required in §60.5420a(b)(1) and (7).

[45CSR16; 40 CFR §60.5415a(h)]

6.2. Monitoring Requirements

- 6.2.1. None.

6.3. Testing Requirements

- 6.3.1. None

6.4. Recordkeeping Requirements

- 6.4.1. You must maintain the records identified as specified in §60.7(f) and in paragraphs (c)(1) through (18) of 40 CFR §60.5420a. All records required by this subpart must be maintained either onsite or at the nearest local

field office for at least 5 years. Any records required to be maintained by this subpart that are submitted electronically via the EPA's CDX may be maintained in electronic format.

For each collection of fugitive emissions components at a well site and each collection of fugitive emissions components at a compressor station, maintain the records identified in 40 CFR §§60.5420a(c)(15)(i) through (viii).

i. The date of the startup of production or the date of the first day of production after modification for each collection of fugitive emissions components at a well site and the date of startup or the date of modification for each collection of fugitive emissions components at a compressor station.

ii-iv. [Reserved]

v. For each collection of fugitive emissions components at a well site where you complete the removal all major production and processing equipment such that the well site contains only one or more wellheads, record the date the well site completes the removal of all major production and processing equipment from the well site, and, if the well site is still producing, record the well ID or separate tank battery ID receiving the production from the well site. If major production and processing equipment is subsequently added back to the well site, record the date that the first piece of major production and processing equipment is added back to the well site.

vi. The fugitive emissions monitoring plan as required in 40 CFR §§60.5397a(b), (c), and (d).

vii. The records of each monitoring survey as specified in 40 CFR §§60.5420a(c)(15)(vii)(A) through (I).

A. Date of the survey.

B. Beginning and end time of the survey.

C. Name of operator(s), training, and experience of the operator(s) performing the survey.

D. Monitoring instrument used.

E. Fugitive emissions component identification when Method 21 of appendix A-7 of 40 CFR 60 is used to perform the monitoring survey.

F. Ambient temperature, sky conditions, and maximum wind speed at the time of the survey. For compressor stations, operating mode of each compressor (*i.e.*, operating, standby pressurized, and not operating-depressurized modes) at the station at the time of the survey.

G. Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.

H. Records of calibrations for the instrument used during the monitoring survey.

I. Documentation of each fugitive emission detected during the monitoring survey, including the information specified in 40 CFR §§60.5420a(c)(15)(vii)(I)(1) through (9).

1. Location of each fugitive emission identified.

2. Type of fugitive emissions component, including designation as difficult-to-monitor or unsafe-to-monitor, if applicable.

3. If Method 21 of appendix A-7 of 40 CFR 60 is used for detection, record the component ID and instrument reading.

4. For each repair that cannot be made during the monitoring survey when the fugitive emissions are initially found, a digital photograph or video must be taken of that component, or the component must be tagged for identification purposes. The digital photograph must include the date that the photograph was taken and must clearly identify the component by location within the site (*e.g.*, the latitude and longitude of the component or by other descriptive landmarks visible in the picture). The digital photograph or identification (*e.g.*, tag) may be removed after the repair is completed, including verification of repair with the resurvey.
 5. The date of first attempt at repair of the fugitive emissions component(s).
 6. The date of successful repair of the fugitive emissions component, including the resurvey to verify repair and instrument used for the resurvey.
 7. Identification of each fugitive emission component placed on delay of repair and explanation for each delay of repair.
 8. For each fugitive emission component placed on delay of repair for reason of replacement component unavailability, the operator must document: the date the component was added to the delay of repair list, the date the replacement fugitive component or part thereof was ordered, the anticipated component delivery date (including any estimated shipment or delivery date provided by the vendor), and the actual arrival date of the component.
 9. Date of planned shutdowns that occur while there are any components that have been placed on delay of repair.
- viii. For the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station complying with an alternative means of emissions limitation under § 60.5399a, you must maintain the records specified by the specific alternative fugitive emissions standard for a period of at least 5 years.

[45CSR16; 40 CFR §§60.5420a(c)&(c)(15)]

6.5. Reporting Requirements

- 6.5.1. Reporting requirements. You must submit annual reports containing the information specified in paragraphs (b)(1) through (8) and (12) of 40 CFR§60.5420a and performance test reports as specified in paragraph (b)(9) or (10) of 40 CFR§60.5420a, if applicable. You must submit annual reports following the procedure specified in paragraph (b)(11) of 40 CFR§60.5420a. The initial annual report is due no later than 90 days after the end of the initial compliance period as determined according to §60.5410a. Subsequent annual reports are due no later than same date each year as the initial annual report. If you own or operate more than one affected facility, you may submit one report for multiple affected facilities provided the report contains all of the information required as specified in paragraphs (b)(1) through (8) and (12) of 40 CFR§60.5420a. Annual reports may coincide with title V reports as long as all the required elements of the annual report are included. You may arrange with the Administrator a common schedule on which reports required by this part may be submitted as long as the schedule does not extend the reporting period.
1. The general information specified in paragraphs (b)(1)(i) through (iv) of 40 CFR §60.5420a is required for all reports.
 - i. The company name, facility site name associated with the affected facility, US Well ID or US Well ID associated with the affected facility, if applicable, and address of the affected facility. If an address is not available for the site, include a description of the site location and provide the latitude and longitude coordinates of the site in decimal degrees to an accuracy and precision of five (5) decimals of a degree using the North American Datum of 1983.
 - ii. An identification of each affected facility being included in the annual report.

- iii. Beginning and ending dates of the reporting period.
 - iv. A certification by a certifying official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
2. For the collection of fugitive emissions components at each well site and the collection of fugitive emissions components at each compressor station, report the information specified in (b)(7)(i) through (iii) of 40 CFR §60.5420a, as applicable.
- i.
 - A. Designation of the type of site (i.e., well site or compressor station) at which the collection of fugitive emissions components is located.
 - B. For each collection of fugitive emissions components at a well site that become an affected facility during the reporting period, you must include the date of the startup of production or the date of the first day of production after modification. For each collection of fugitive emissions components at a compressor station that become an affected facility during the reporting period, you must include the date of startup or the date of modification.
 - C. [Reserved]
 - D. For each collection of fugitive emissions components at a well site where during the reporting period you complete the removal of all major production and processing equipment such that the well site contains only one or more wellheads, you must include the date of the change to status as a wellhead only well site.
 - E. For each collection of fugitive emissions components at a well site where you previously reported under 40 CFR §60.5420a(b)(7)(i)(C) the removal of all major production and processing equipment and during the reporting period major production and processing equipment is added back to the well site, the date that the first piece of major production and processing equipment is added back to the well site.
 - ii. For each fugitive emissions monitoring survey performed during the annual reporting period, the information specified in 40 CFR §§60.5420a (b)(7)(ii)(A) through (G).
 - A. Date of the survey.
 - B. Monitoring instrument used.
 - C. Any deviations from the monitoring plan elements under 40 CFR §§60.5397a(c)(1), (2), and (7) and (c)(8)(i) or a statement that there were no deviations from the elements of the monitoring plan.
 - D. Number and type of components for which fugitive emissions were detected.
 - E. Number and type of fugitive emissions components that were not repaired as required in 40 CFR §60.5397a(h).
 - F. Number and type of fugitive emission components (including designation as difficult-to-monitor or unsafe-to-monitor, if applicable) on delay of repair and explanation for each delay of repair.
 - G. Date of planned shutdown(s) that occurred during the reporting period if there are any components that have been placed on delay of repair.

- iii. For each collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station complying with an alternative fugitive emissions standard under 40 CFR §60.5399a, in lieu of the information specified in 40 CFR §§60.5420a (b)(7)(i) and (ii), you must provide the information specified in 40 CFR §§60.5420a (b)(7)(iii)(A) through (C).
 - A. The alternative standard with which you are complying.
 - B. The site-specific reports specified by the specific alternative fugitive emissions standard, submitted in the format in which they were submitted to the state, local, or tribal authority. If the report is in hard copy, you must scan the document and submit it as an electronic attachment to the annual report required in 40 CFR §60.5420a(b).
 - C. If the report specified by the specific alternative fugitive emissions standard is not site-specific, you must submit the information specified in 40 CFR §§60.5420a(b)(7)(i) and (ii) for each individual site complying with the alternative standard.

[45CSR16; 40 CFR §§60.5420a(b)(1) and (7)]

6.6. Compliance Plan

- 6.6.1. None.

Fact Sheet



***For Draft/Proposed Renewal Permitting Action Under 45CSR30 and
Title V of the Clean Air Act***

Permit Number: **R30-01700003-2025**
Application Received: **November 1, 2024**
Plant Identification Number: **017-00003**
Permittee: **Eastern Gas Transmission and Storage, Inc.**
Facility Name: **L. L. Tonkin Compressor Station**
Mailing Address: **925 White Oaks Blvd., Bridgeport, WV 26330**

Physical Location: West Union, Doddridge County, West Virginia
UTM Coordinates: 518.82 km Easting • 4351.18 km Northing • Zone 17
Directions: Take Route 50 east from Parkersburg. After approximately 45 miles take
West Union Exit, Route 18 North. Go approximately 3.5 miles – L. L.
Tonkin station is on the left.

Facility Description

The L. L. Tonkin Compressor Station is a natural gas transmission facility covered by Standard Industrial Classification (SIC) 4922.

Emissions Summary

Plantwide Emissions Summary [Tons per Year]		
Regulated Pollutants	Potential Emissions	2023 Actual Emissions
Carbon Monoxide (CO)	119.8	33.42
Nitrogen Oxides (NO _x)	60.4	36.50
Particulate Matter (PM _{2.5})	10.6	8.09
Particulate Matter (PM ₁₀)	10.6	8.09
Total Particulate Matter (TSP)	10.6	8.09
Sulfur Dioxide (SO ₂)	0.7	0.37
Volatile Organic Compounds (VOC)	18.5	11.61

PM₁₀ is a component of TSP.

Hazardous Air Pollutants	Potential Emissions	2023 Actual Emissions
Acetaldehyde	0.06	0.02
Acrolein	0.02	<0.01
Benzene	0.01	<0.01
Ethylbenzene	0.02	0.01
Formaldehyde	2.33	1.12
Hexane	0.02	0.01
Toluene	0.10	0.05
Xylene	0.05	0.03
Total HAPs	2.61	1.26

Some of the above HAPs may be counted as PM or VOCs.

Title V Program Applicability Basis

This facility has the potential to emit 119.8 TPY of CO. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, Eastern Gas Transmission and Storage, Inc. is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR2	Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers.
	45CSR6	Open burning prohibited.

	45CSR11	Standby plans for emergency episodes.
	45CSR13	NSR permits.
	45CSR16	Standards of Performance for New Stationary Sources Pursuant to 40 C.F.R. Part 60
	WV Code § 22-5-4 (a) (15)	The Secretary can request any pertinent information such as annual emission inventory reporting.
	45CSR30	Operating permit requirement.
	45CSR34	Emission standards for HAPs.
	40 C.F.R. 60 Subpart GG	Turbine NSPS.
	40 C.F.R. 60 Subpart JJJJ	SI RICE NSPS.
	40 C.F.R. 60 Subpart OOOOa	Crude Oil and Natural Gas NSPS.
	40 C.F.R. 60 Subpart KKKK	Stationary Combustion Turbines NSPS.
	40 C.F.R. Part 61, Subpart M	Asbestos inspection and removal.
	40 C.F.R. 63 Subpart ZZZZ	RICE MACT
	40 C.F.R. Part 82, Subpart F	Ozone depleting substances.
State Only:	45CSR4	No objectionable odors.
	45CSR17	Fugitive Particulate Matter.

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (if any)
R13-1077B	February 9, 2017	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table," which may be downloaded from DAQ's website.

Determinations and Justifications

There were no changes at the facility since the previous Title V permit renewal was issued except for the removal of the 0.52 MMBtu/hr Peerless Boiler G-14691-WS-I (Emission Point ID BLR01, Emission Unit ID 004-01, installed in 1989). The following changes were made to the permit during this renewal process:

1. Company's name was changed from "Dominion Energy Transmission, Inc." to "Eastern Gas Transmission and Storage, Inc." throughout the permit.
2. Emission Units Table 1.1 – Boiler BLR01 was removed from the facility, therefore it was removed from the Table.

3. Boilerplate - revised in conditions 2.1.3, 2.11.4, 2.17, 2.22.1, 3.1.6, 3.3.1, 3.3.1.b, 3.5.3, 3.5.4, 3.5.7, 3.5.8.a.1, and 3.5.8.a.2.
4. Section 3.0 – Boiler BLR01 was removed from conditions 3.7.2 (d) and 3.7.2 (e) because it was removed from the facility.
5. Section 4.0 – Emission Unit ID “004-01” (Boiler BLR01) was removed from the section name and from the condition 4.1.4 because the boiler was removed from the facility.
6. Section 5.0 – language in conditions 5.1.1(c), 5.4.1(a)(3), 5.5.1 and 5.5.2 was revised in accordance with the latest version of 40 C.F.R. 60 Subpart JJJJ. Condition 5.1.1 has underlying permit R13-1077B condition 4.1.4, and it has not been revised yet, but since the 40 C.F.R. 60 Subpart JJJJ was revised, the language in condition 5.1.1 was changed as well during this permit renewal.
7. Section 6.0 – language in conditions 6.1.1, 6.1.3, 6.4.1 and 6.5.1 was revised in accordance with the latest version of 40 C.F.R. 60 Subpart OOOOa.

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

1. 40 C.F.R. 60 Subpart OOOO – This subpart does not apply to the facility since the facility is a transmission facility that has tanks with potential emissions below 6 tons VOC/yr and additionally those tanks have not been constructed, modified, or reconstructed after August 23, 2011 and on or before September 18, 2015.
2. 40 C.F.R. 63 Subpart HH – This subpart does not apply to the facility since the facility is not a natural gas production facility.
3. 40 C.F.R. 63 Subpart HHH – This subpart does not apply to the facility since the facility is not a major source of HAPs.
4. 40 C.F.R. 63 Subpart DDDDD – The boiler (BLR02) is not subject to this subpart since the facility is not a major source of HAPs.
5. 40 C.F.R. 63 Subpart JJJJJ – The boiler (BLR02) is not subject to this subpart since it is considered “gas-fired boiler” (i.e. burn only natural gas) and is exempt based on 40 C.F.R. §63.11195(e).
6. 40 C.F.R. 64 – Potential pre-control device emissions from the pollutant-specific emission units are below the major source thresholds. Therefore, according to 40 C.F.R. §64.2(a), CAM is not applicable to any pollutant-specific emission units at this facility.

Request for Variances or Alternatives

None.

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: (Date of Notice Publication)

Ending Date: (Publication Date PLUS 30 Days)

Point of Contact

All written comments should be addressed to the following individual and office:

Natalya V. Chertkovsky-Veselova
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
304/926-0499 ext. 41250
natalya.v.chertkovsky@wv.gov

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Response to Comments (Statement of Basis)

(Choose) Not applicable.

OR

Describe response to comments that are received and/or document any changes to the final permit from the draft/proposed permit.



Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>

Completeness Determination, Eastern Gas Transmission and Storage L. L. Tonkin Compressor Station, Application No. R30-01700003-2025

2 messages

Chertkovsky, Natalya V <natalya.v.chertkovsky@wv.gov>

Thu, Dec 12, 2024 at 4:53 PM

To: Richard B Gangle <richard.b.gangle@dom.com>, "Gates, Andy (BHE GT&S)" <Andy.Gates@bhegts.com>

Your Title V renewal application for a permit to operate the above referenced facility was received by this Division on November 1, 2024. After review of said application, it has been determined that the application is administratively complete as submitted. Therefore, the above referenced facility qualifies for an Application Shield.

The applicant has the duty to supplement or correct the application. Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a draft permit.

The submittal of a complete application shall not affect the requirement that any source have all **preconstruction permits** required under the rules of the Division.

If during the processing of this application it is determined that additional information is necessary to evaluate or take final action on this application, a request for such information will be made in writing with a reasonable deadline for a response. Until which time as your renewal permit is issued or denied, please continue to operate this facility in accordance with 45CSR30, section 6.3.c. which states: *If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.* This protection shall cease to apply if, subsequent to the completeness determination made pursuant to paragraph 6.1.d. of 45CSR30 and as required by paragraph 4.1.b., the applicant fails to submit by the deadline specified in writing any additional information identified as being needed to process the application.

Please remember, **failure of the applicant to timely submit information required or requested to process the application may cause the Application Shield to be revoked.** Should you have any questions regarding this determination, please contact me.

Sincerely,

Natalya V. Chertkovsky-Veselova,

Title V Permit Engineer,

WV DEP DAQ,

304-926-0499 x 41250

Gates, Andy (BHE GT&S) <Andy.Gates@bhegts.com>

Thu, Dec 12, 2024 at 5:02 PM

To: "natalya.v.chertkovsky@wv.gov" <natalya.v.chertkovsky@wv.gov>

Your message

To: Gates, Andy (BHE GT&S)

Subject: [EXTERNAL] Completeness Determination, Eastern Gas Transmission and Storage L. L. Tonkin Compressor Station, Application No. R30-01700003-2025

Sent: Thursday, December 12, 2024 4:53:54 PM (UTC-05:00) Eastern Time (US & Canada)

was read on Thursday, December 12, 2024 5:01:55 PM (UTC-05:00) Eastern Time (US & Canada).



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

Received
November 1, 2024
WV DEP/Div of Air Quality

November 1, 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: Eastern Gas Transmission and Storage, Inc. – Title V Renewal Application
L. L. Tonkin Compressor Station – R30-01700003-2020

Dear Ms. Crowder:

The renewal application for the Title V permit for Eastern Gas Transmission and Storage, Inc.'s L. L. Tonkin Compressor Station is attached. In accordance with instructions on the WVDEP website, only this electronic submittal will be made unless otherwise requested.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "R. Gangle".

Richard B. Gangle
Director, Environmental Services

Attachment



L.L. Tonkin Compressor Station
WVDEP Title V Permit R30-01700003-2020
Facility ID 017-00003

Application for Regulation 30 (Title V) Air Permit Renewal

Eastern Gas Transmission and Storage, Inc.
October 2024

**EASTERN GAS TRANSMISSION AND STORAGE, INC.
L.L. TONKIN COMPRESSOR STATION**

TITLE V PERMIT RENEWAL APPLICATION

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Section 2: Renewal Title V Permit Application – General Forms

ATTACHMENTS

Attachment A: Area Map

Attachment B: Plot Plan

Attachment C: Process Flow Diagrams

Attachment D: Title V Equipment Table

Attachment E: Emission Unit Forms

There are no Attachments F, G, or H for this renewal.

SECTION 1
Introduction

Introduction

The L.L. Tonkin Compressor Station is a natural gas compressor station used to compress gas for Eastern Gas Transmission and Storage, Inc.'s transmission pipeline system in West Virginia. The L.L. Tonkin Station is located in West Union, West Virginia.

The L.L. Tonkin Station is a major source of air emissions for carbon monoxide (CO) under the West Virginia Department of Environmental Protection (WVDEP) Regulation (45 CSR Part 30) and is subject to the Title V Operating Permit provisions of Part 30.

The L.L. Tonkin Station was issued a renewed Title V Operating Permit (Permit No: R30-01700003-2020) that expires on May 4, 2025.

Process Description

L.L. Tonkin Station began operation in 1989. The main process at L.L. Tonkin Station is the compression and transmission of natural gas. The following equipment is present at the facility:

- One 4,417-HP Solar T-4500 Turbine Compressor (NSPS Subpart GG)
 - o Emission Point ID/Emission Unit ID: 001-01/TRB01
- One 3,000-gallon aboveground storage tank containing produced fluids (drip gas)
 - o Emission Point ID/Emission Unit ID: TK01/TK01
- One 1,000-gallon aboveground storage tank containing waste water
 - o Emission Point ID/Emission Unit ID:TK02/TK02
- Two 6,035-HP Solar Centaur 50 Turbine Compressors (NSPS Subpart KKKK)
 - o Emission Point ID/Emission Unit ID: 001-02/TRB02 and 001-03/TRB03
- One 1,462-HP Caterpillar G3516 natural gas-fired auxiliary generator (NSPS Subpart JJJJ)
 - o Emission Point ID/Emission Unit ID:002-02/AUX02
- One 2.94 mmBtu/hr Hurst LPW-G-70-60W natural gas-fired boiler
 - o Emission Point ID/Emission Unit ID:004-02/BLR02

Note that the former Peerless boiler (BLR01) is no present at this facility and should be removed from the equipment list in the renewed Title V permit.

SECTION 2

Renewal Title V Permit Application – General Forms



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475

www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

Form with 10 sections: 1. Name of Applicant, 2. Facility Name or Location, 3. DAQ Plant ID No., 4. Federal Employer ID No. (FEIN), 5. Permit Application Type, 6. Type of Business Entity, 7. Is the Applicant the: Owner, Operator, Both, 8. Number of onsite employees, 9. Governmental Code, 10. Business Confidentiality Claims.

11. Mailing Address		
Street or P.O. Box: 925 White Oaks Blvd.		
City: Bridgeport	State: WV	Zip: 26330
Telephone Number: (681) 842-3000	Fax Number: NA	

12. Facility Location		
Street: 139 Tonkin Station Road	City: West Union	County: Doddridge
UTM Easting: 518.82 km	UTM Northing: 4351.18 km	Zone: <input checked="" type="checkbox"/> 17 or <input type="checkbox"/> 18
Directions: Take Route 50 east from Parkersburg. Approximately 35 miles take West Union Exit, Route 18 North. Go approximately 3.5 miles, the L.L. Tonkin Station is on the left.		
Portable Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is facility located within a nonattainment area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, for what air pollutants?	
Is facility located within 50 miles of another state? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, name the affected state(s). Pennsylvania and Ohio	
Is facility located within 100 km of a Class I Area¹? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, do emissions impact a Class I Area¹? <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, name the area(s). Dolly Sods Wilderness Area Otter Creek Wilderness Area	
¹ Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.		

13. Contact Information		
Responsible Official: John M. Lamb		Title: Vice President, Eastern Pipeline Operations
Street or P.O. Box: 925 White Oaks Blvd.		
City: Bridgeport	State: WV	Zip: 26330
Telephone Number: (681) 842-3550	Fax Number: NA	
E-mail address: matt.lamb@bhegts.com		
Environmental Contact: Andy Gates		Title: Sr. Environmental Specialist
Street or P.O. Box: 17500 Energy Way		
City: Glen Allen	State: VA	Zip: 23060
Telephone Number: (804) 389-1340	Fax Number: NA	
E-mail address: andy.gates@bhegts.com		
Application Preparer: Andy Gates		Title: Sr. Environmental Specialist
Company: Eastern Gas Transmission and Storage, Inc.		
Street or P.O. Box: 17500 Energy Way		
City: Glen Allen	State: VA	Zip: 23060
Telephone Number: (804) 389-1340	Fax Number: NA	
E-mail address: andy.gates@bhegts.com		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Natural gas compressor station	N/A	486210	4922

Provide a general description of operations.

The L.L. Tonkin Station is a compressor facility that services a natural gas pipeline system. The purpose of the facility is to recompress natural gas flowing through a pipeline for transportation. The turbines (TRB01, TRB02, and TRB03) at the facility receive natural gas from a valve on a pipeline and compresses it to enable further transportation in the pipeline.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
<input checked="" type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input checked="" type="checkbox"/> NESHAP (45CSR34)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input checked="" type="checkbox"/> Section 111 NSPS	<input type="checkbox"/> Section 112(d) MACT standards
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input checked="" type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64)
<input type="checkbox"/> CAIR NO _x Annual Trading Program (45CSR39)	<input type="checkbox"/> CAIR NO _x Ozone Season Trading Program (45CSR40)
<input type="checkbox"/> CAIR SO ₂ Trading Program (45CSR41)	

19. Non Applicability Determinations
<p>List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.</p> <p>40 CFR 63 Subpart HH – This subpart does not apply to the facility since the facility is not a natural gas production facility.</p> <p>40 CFR 63 Subpart DDDDD – The boiler (BLR02) is not subject to this subpart since the facility is not major source of HAPs.</p> <p>40 CFR 63 Subpart JJJJJ – The boilers (BLR01 and BLR02) are not subject to this subpart since they are considered “gas-fired boilers” (i.e. burns only natural gas) and are exempt based on §63.11195(e).</p>
<input checked="" type="checkbox"/> Permit Shield

19. Non Applicability Determinations (Continued) - Attach additional pages as necessary.

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

40 CFR 60, Subpart K—Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978. TK01, TK02, and TK03 were constructed in 1989. However, this subpart does not apply per 40 C.F.R.60 § 110(a) because these tanks have a capacity below 40,000 gallons.

40 CFR 60, Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. Although TK01, TK02, and TK03 were installed after 1984, none are equal to or greater than 75 cubic meters (19,813 gals). Therefore, this Subpart does not apply.

40 CFR 60, Subpart OOOO – Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution. This facility has no equipment with applicable requirements under Subpart OOOO. This subpart applies to equipment installed after August 23, 2011 and before September 18, 2015.

40 CFR 63, Subpart HHH—National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities. This facility is exempt per 40 C.F.R. 63 § 1270(a) since this facility is not a major HAP source.

40 CFR 64 – CAM requirements – Potential pre-control device emissions from the pollutant-specific emissions units are below the major source threshold. Therefore, according to 40 CFR §64.2(a), CAM is not applicable to any pollutant-specific emission units at this facility.

Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).

45 CSR 6-3.1 – Open burning prohibited (TV 3.1.1)

45 CSR 6-3.2 – Open burning exemption (TV 3.1.2)

40 CFR Part 61.145(b) / 45 CSR 34 – Asbestos inspection and removal (TV 3.1.3)

45 CSR 11-5.2 – Standby plans for reducing emissions (TV 3.1.5)

WV Code 22-5-4(a)(14) – The permittee is responsible for submitting, on an annual basis, as emission inventory in accordance with the submittal requirements (TV 3.1.6)

40 CFR Part 82 Subpart F – Ozone depleting substances (TV 3.1.7)

40 CFR Part 68 – Risk Management Plan (TV 3.1.8)

45 CSR 17-3.1 – No fugitive particulate matter beyond the property boundary (TV 3.1.9)

45 CSR 13 – General air pollution control equipment requirements (TV 3.1.10)

WV Code 22-5-4(a)(15) and 45 CSR 13 – Stack Testing Requirements (TV 3.3.1)

45 CSR 13 / 45 CSR 30 – Record keeping and Reporting (TV 3.4 and 3.5)

State Enforceable Only:

45 CSR 4-3.1 – Odor control (TV 3.1.4)

Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

45 CSR 6-3.1 – The permittee shall prohibit open burning not meeting an exemption listed in 45 CSR 6-3.2 (TV 3.1.1)

45 CSR 6-3.2 – The permittee shall prohibit open burning not meeting an exemption listed in 45 CSR 6-3.2 (TV 3.1.2)

40 CFR Part 61.145(b) / 45 CSR 34 – Prior to demolition/construction, buildings will be inspected for asbestos (TV 3.1.3)

45 CSR 11-5.2 – Upon request by the Secretary, the permittee shall prepare a standby plan (TV 3.1.5)

40 CFR Part 82 Subpart F – The permittee will prohibit maintenance, service, or repair of appliances containing ozone depleting substances without using certified technicians and equipment (TV 3.1.7)

40 CFR Part 68 – Should the permittee become subject to 40 CFR Part 68, a Risk Management Plan shall be submitted (TV 3.1.8)

WV Code 22-5-4(a)(15) and 45 CSR 13 – Stack Testing shall be conducted as required and when requested (TV 3.3.1)

45 CSR 30-5.1.c.2.A, 45 CSR 13 – The permittee shall keep records of monitoring (TV 3.4.1, R13-1077B 4.3.1)

45 CSR 30-5.1.c.2.B – The permittee shall keep records of monitoring and supporting information for at least 5 years (TV 3.4.2)

45 CSR 30-4.4 and 5.1.c.3.D – Any application form shall contain a certification by the responsible official that states that the statements and information in the document are true (TV 3.5.1)

45 CSR 30-5.1.c.3.E – The permittee may request confidential treatment for the submission of reporting (TV 3.5.2)

45 CSR 30-8 – The permittee shall submit a certified emissions statement annually (TV 3.5.4)

45 CSR 30-5.3.e – The permittee shall certify compliance with the conditions of this permit on the forms provided by the DEP (TV 3.5.5)

45 CSR 30-5.1.c.3.A – The permittee shall submit reports of any required monitoring on or before the required dates (TV 3.5.6)

State Enforceable Only:

45 CSR 30-5.1.c – The permittee shall keep records of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken (TV 3.4.3)

Are you in compliance with all facility-wide applicable requirements? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements (Continued) - Attach additional pages as necessary.

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

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Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

(page intentionally blank)

Are you in compliance with all facility-wide applicable requirements? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

21. Active Permits/Consent Orders		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit <i>(if any)</i>
R13-1077B	02/09/2017	None
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22. Inactive Permits/Obsolete Permit Conditions		
Permit Number	Date of Issuance	Permit Condition Number
None	MM/DD/YYYY	NA
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Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	119.8
Nitrogen Oxides (NO _x)	60.4
Lead (Pb)	--
Particulate Matter (PM _{2.5}) ¹	10.6
Particulate Matter (PM ₁₀) ¹	10.6
Total Particulate Matter (TSP)	10.6
Sulfur Dioxide (SO ₂)	0.7
Volatile Organic Compounds (VOC)	18.5
Hazardous Air Pollutants ²	Potential Emissions
Formaldehyde	1.15
Acrolein	0.07
Acetaldehyde	0.03
Benzene	0.01
Ethylbenzene	0.12
Hexane	0.02
Toluene	0.04
Xylene	0.02
Regulated Pollutants other than Criteria and HAP	Potential Emissions

¹PM_{2.5} and PM₁₀ are components of TSP.
²For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Potentials-to-emit are based on currently operating equipment and permit limits as applicable and include fugitive VOC.

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	1. Air compressors and pneumatically operated equipment, including hand tools.
<input type="checkbox"/>	2. Air contaminant detectors or recorders, combustion controllers or shutoffs.
<input checked="" type="checkbox"/>	3. Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
<input checked="" type="checkbox"/>	4. Bathroom/toilet vent emissions.
<input checked="" type="checkbox"/>	5. Batteries and battery charging stations, except at battery manufacturing plants.
<input type="checkbox"/>	6. Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
<input type="checkbox"/>	7. Blacksmith forges.
<input type="checkbox"/>	8. Boiler water treatment operations, not including cooling towers.
<input type="checkbox"/>	9. Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
<input type="checkbox"/>	10. CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
<input type="checkbox"/>	11. Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
<input checked="" type="checkbox"/>	12. Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
<input checked="" type="checkbox"/>	13. Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
<input type="checkbox"/>	14. Demineralized water tanks and demineralizer vents.
<input type="checkbox"/>	15. Drop hammers or hydraulic presses for forging or metalworking.
<input type="checkbox"/>	16. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
<input type="checkbox"/>	17. Emergency (backup) electrical generators at residential locations.
<input type="checkbox"/>	18. Emergency road flares.
<input type="checkbox"/>	19. Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO _x , SO ₂ , VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis: _____ _____ _____ _____ _____ _____ _____ _____

24. Insignificant Activities (Check all that apply)	
<input type="checkbox"/>	<p>20. Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27.</p> <p>Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<input type="checkbox"/>	21. Environmental chambers not using hazardous air pollutant (HAP) gases.
<input checked="" type="checkbox"/>	22. Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
<input type="checkbox"/>	23. Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
<input type="checkbox"/>	24. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
<input type="checkbox"/>	25. Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
<input type="checkbox"/>	26. Fire suppression systems.
<input checked="" type="checkbox"/>	27. Firefighting equipment and the equipment used to train firefighters.
<input type="checkbox"/>	28. Flares used solely to indicate danger to the public.
<input checked="" type="checkbox"/>	29. Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
<input type="checkbox"/>	30. Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
<input checked="" type="checkbox"/>	31. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
<input type="checkbox"/>	32. Humidity chambers.
<input type="checkbox"/>	33. Hydraulic and hydrostatic testing equipment.
<input type="checkbox"/>	34. Indoor or outdoor kerosene heaters.
<input checked="" type="checkbox"/>	35. Internal combustion engines used for landscaping purposes.
<input type="checkbox"/>	36. Laser trimmers using dust collection to prevent fugitive emissions.
<input type="checkbox"/>	37. Laundry activities, except for dry-cleaning and steam boilers.
<input type="checkbox"/>	38. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
<input type="checkbox"/>	39. Oxygen scavenging (de-aeration) of water.
<input type="checkbox"/>	40. Ozone generators.

24. Insignificant Activities (Check all that apply)	
<input checked="" type="checkbox"/>	41. Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
<input checked="" type="checkbox"/>	42. Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
<input type="checkbox"/>	43. Process water filtration systems and demineralizers.
<input checked="" type="checkbox"/>	44. Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
<input checked="" type="checkbox"/>	45. Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
<input type="checkbox"/>	46. Routing calibration and maintenance of laboratory equipment or other analytical instruments.
<input type="checkbox"/>	47. Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
<input type="checkbox"/>	48. Shock chambers.
<input type="checkbox"/>	49. Solar simulators.
<input checked="" type="checkbox"/>	50. Space heaters operating by direct heat transfer.
<input type="checkbox"/>	51. Steam cleaning operations.
<input type="checkbox"/>	52. Steam leaks.
<input type="checkbox"/>	53. Steam sterilizers.
<input type="checkbox"/>	54. Steam vents and safety relief valves.
<input type="checkbox"/>	55. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
<input type="checkbox"/>	56. Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
<input type="checkbox"/>	57. Such other sources or activities as the Director may determine.
<input type="checkbox"/>	58. Tobacco smoking rooms and areas.
<input type="checkbox"/>	59. Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table

Fill out the **Title V Equipment Table** and provide it as **ATTACHMENT D**.

26. Emission Units

For each emission unit listed in the **Title V Equipment Table**, fill out and provide an **Emission Unit Form** as **ATTACHMENT E**.

For each emission unit not in compliance with an applicable requirement, fill out a **Schedule of Compliance Form** as **ATTACHMENT F**.

27. Control Devices

For each control device listed in the **Title V Equipment Table**, fill out and provide an **Air Pollution Control Device Form** as **ATTACHMENT G**.

For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the **Compliance Assurance Monitoring (CAM) Form(s)** for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as **ATTACHMENT H**.

Section 6: Certification of Information

28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

b. Compliance Certification

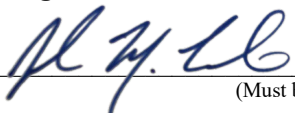
Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable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

Responsible official (type or print)

Name: John M. Lamb

Title: Vice President, Eastern Pipeline Operations

Responsible official's signature:

Signature:  Signature Date: 10/24/2024
 (Must be signed and dated in blue ink)

Note: Please check all applicable attachments included with this permit application:

<input checked="" type="checkbox"/>	ATTACHMENT A: Area Map
<input checked="" type="checkbox"/>	ATTACHMENT B: Plot Plan(s)
<input checked="" type="checkbox"/>	ATTACHMENT C: Process Flow Diagram(s)
<input checked="" type="checkbox"/>	ATTACHMENT D: Equipment Table
<input checked="" type="checkbox"/>	ATTACHMENT E: Emission Unit Form(s)
<input type="checkbox"/>	ATTACHMENT F: Schedule of Compliance Form(s)
<input type="checkbox"/>	ATTACHMENT G: Air Pollution Control Device Form(s)
<input type="checkbox"/>	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

ATTACHMENT A

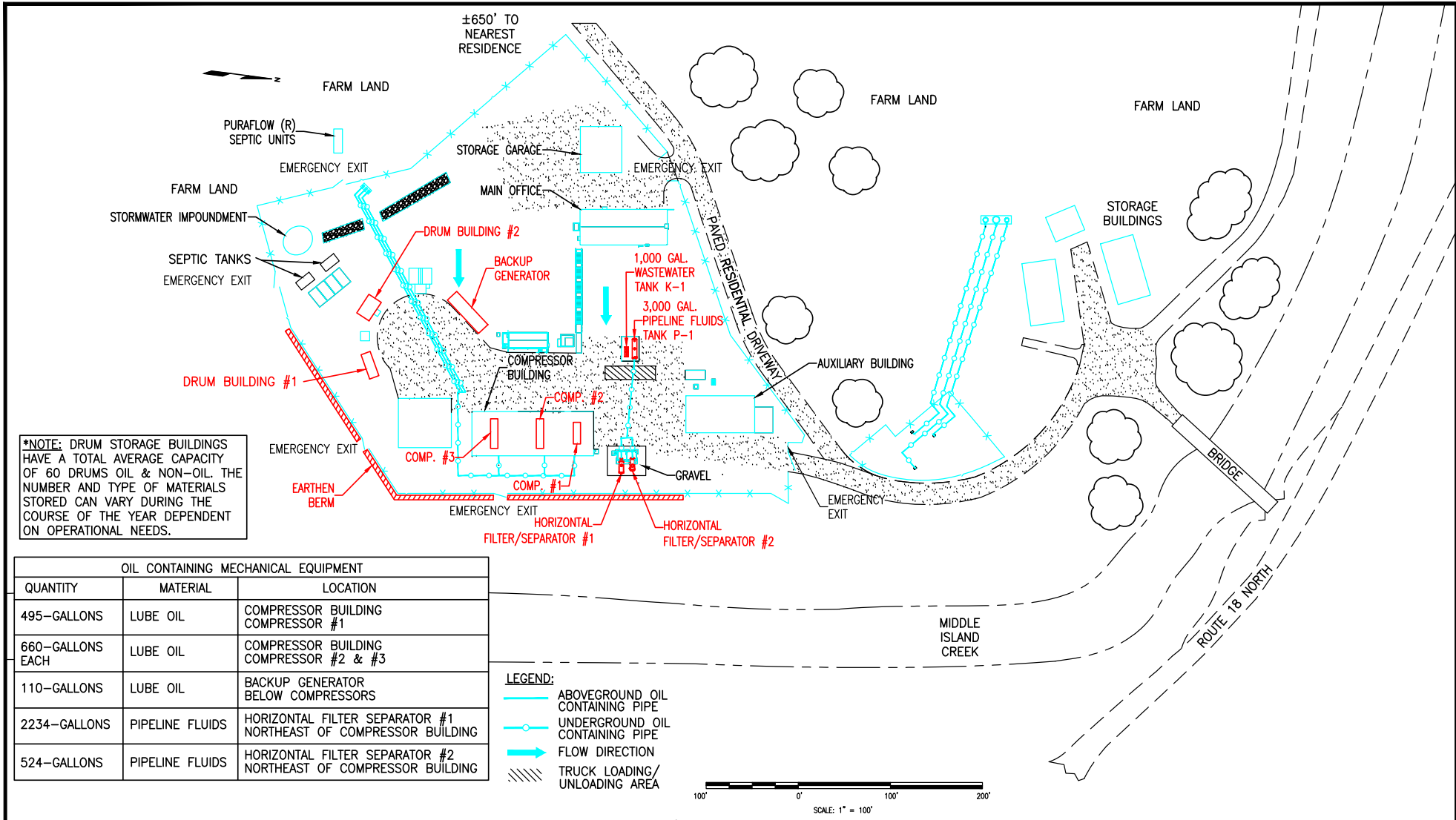
Area Map



From the town of Parkersburg, take Route 50 East. After approximately 45 miles, take West Union exit (Route 18 North). Travel approximately 3.5 miles and the L.L. Tonkin Compressor Station will be on the left.

ATTACHMENT B

Plot Plan



*NOTE: DRUM STORAGE BUILDINGS HAVE A TOTAL AVERAGE CAPACITY OF 60 DRUMS OIL & NON-OIL. THE NUMBER AND TYPE OF MATERIALS STORED CAN VARY DURING THE COURSE OF THE YEAR DEPENDENT ON OPERATIONAL NEEDS.

OIL CONTAINING MECHANICAL EQUIPMENT		
QUANTITY	MATERIAL	LOCATION
495-GALLONS	LUBE OIL	COMPRESSOR BUILDING COMPRESSOR #1
660-GALLONS EACH	LUBE OIL	COMPRESSOR BUILDING COMPRESSOR #2 & #3
110-GALLONS	LUBE OIL	BACKUP GENERATOR BELOW COMPRESSORS
2234-GALLONS	PIPELINE FLUIDS	HORIZONTAL FILTER SEPARATOR #1 NORTHEAST OF COMPRESSOR BUILDING
524-GALLONS	PIPELINE FLUIDS	HORIZONTAL FILTER SEPARATOR #2 NORTHEAST OF COMPRESSOR BUILDING

LEGEND:
 — ABOVEGROUND OIL CONTAINING PIPE
 — UNDERGROUND OIL CONTAINING PIPE
 → FLOW DIRECTION
 ▨ TRUCK LOADING/UNLOADING AREA

SYM.	DATE	BY	REVISION DESCRIPTION	PRJ/TSK	APP.	SCALE	DATE
9	06/13/2021	MRM	ADDED TO NOTE CONCERNING DRUM STORAGE			1" = 100'	
8	03/23/2021	MRM	ADDED SEPTIC PER MATT AUFMAN'S MARK UPS				
7	03/10/2021	MRM	UPDATED PER MATT AUFMAN'S MARK UPS				
6	09/28/2020	MRM	UPDATED PER RACHEL CALVERT'S MARK UPS				
5	05/02/2017	JAR	ADDED STORAGE GARAGE, EXTENDED EARTHEN BERM AND LABELED MAIN OFFICE				

EASTERN
 GAS TRANSMISSION AND STORAGE
A BETHESDA NORTHWEST ENERGY COMPANY

Eastern Gas Transmission and Storage, Inc.
 925 White Oaks Blvd., Bridgeport, WV 26330
 (881) 842-3000

FOR: **LL TONKIN COMPRESSOR STATION**

TITLE: **ENVIRONMENTAL EMERGENCY SITE PLAN**

DIR: **DOCUMENTUM** GROUP: **PD** DWG. NO.: **X7921C** REV.: **9**

FILE: **PRJ/TSK:** TOWN: **WEST UNION, WV** COUNTY: **DODDRIDGE**

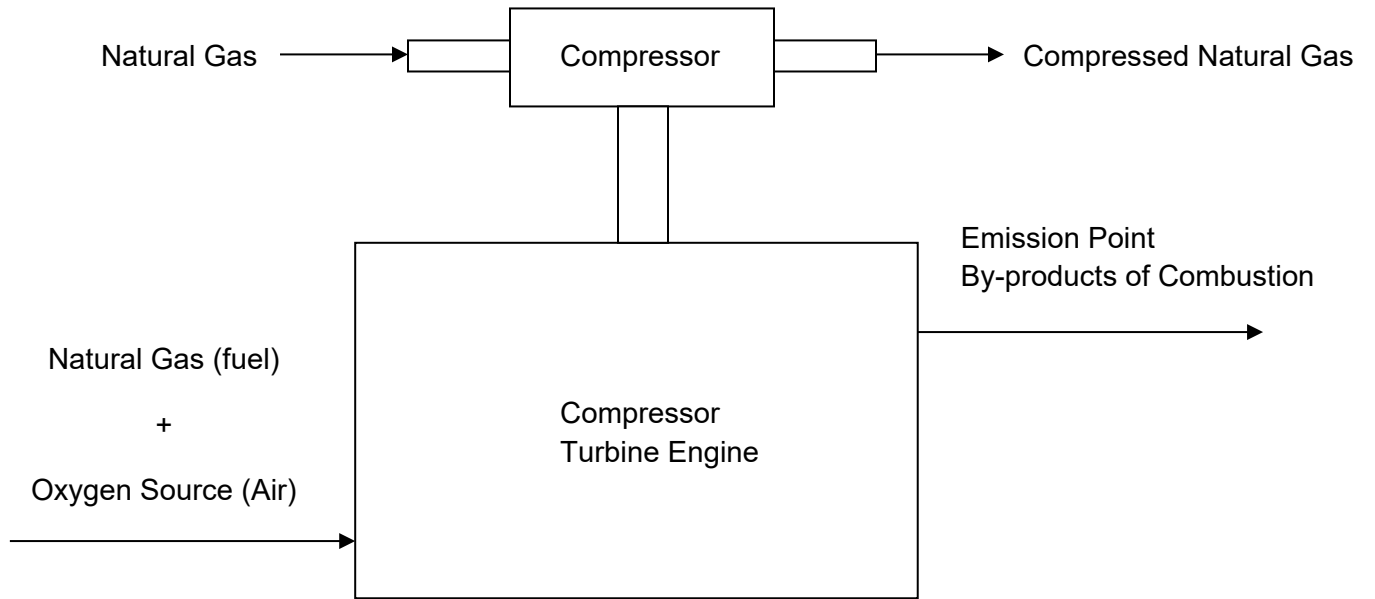
ATTACHMENT C
Process Flow Diagram

Eastern Gas Transmission and Storage, Inc.

L.L. Tonkin Compressor Station

Compressor Turbine Engines (TRB01, TRB02, TRB03) Process Flow Diagram

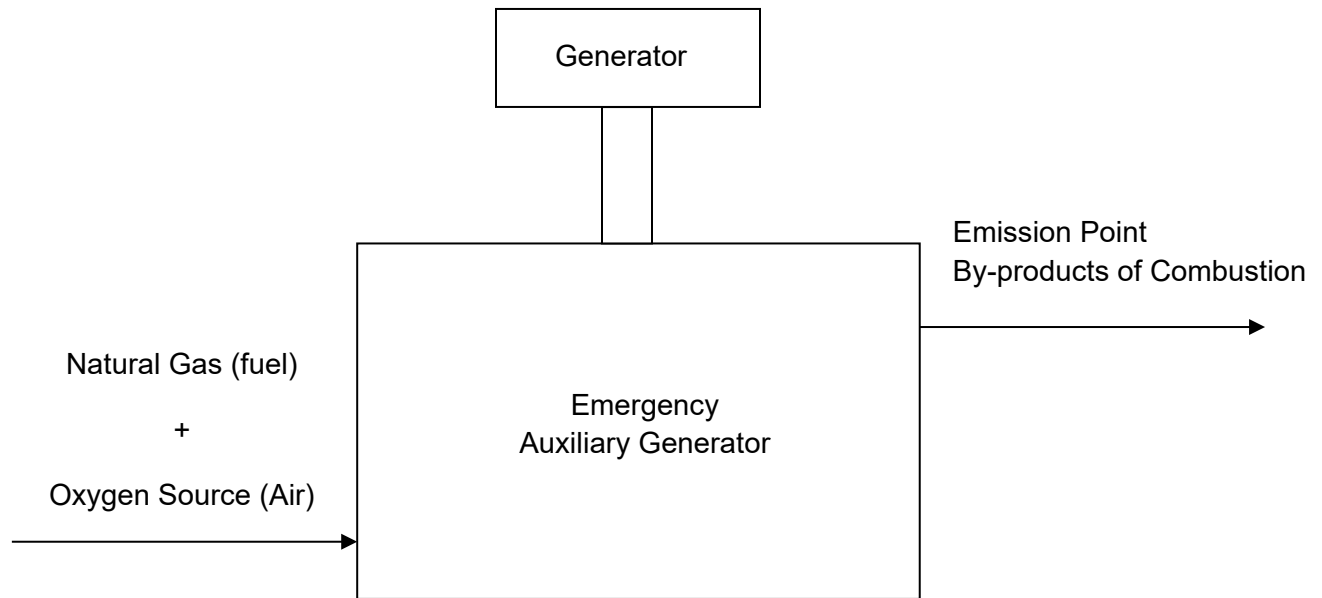
(similar flows for all three turbines)



Eastern Gas Transmission and Storage, Inc.

L.L. Tonkin Compressor Station

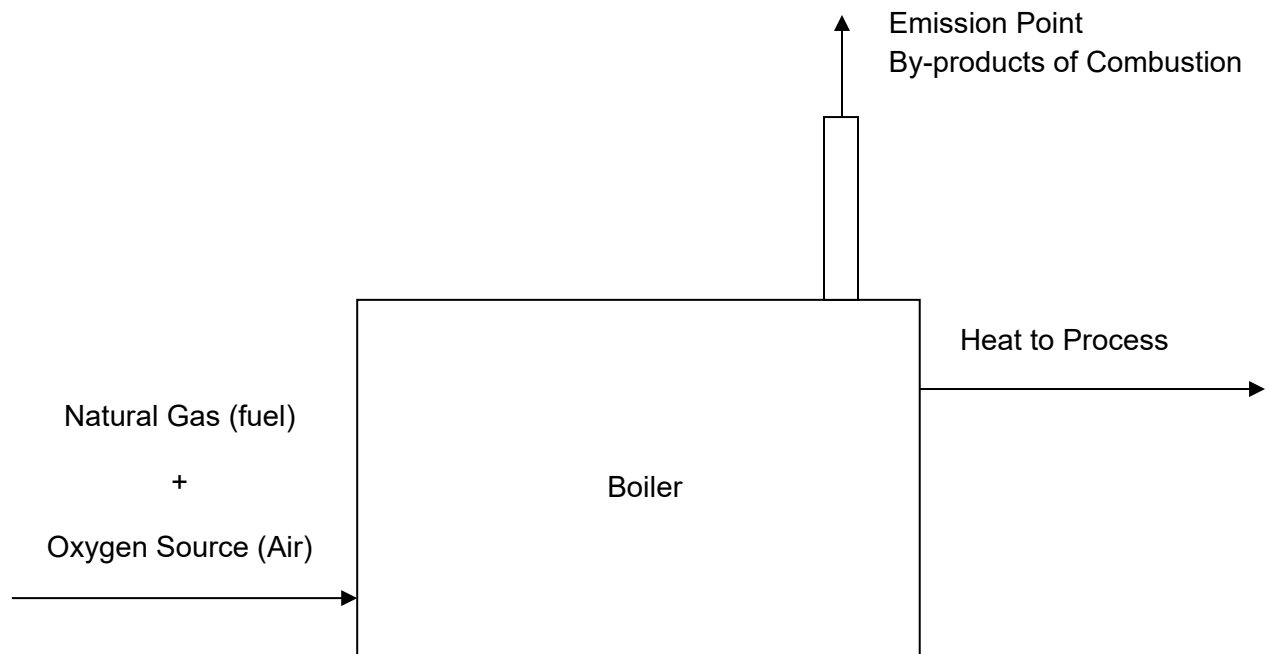
Emergency Auxiliary Generator (AUX02) Process Flow Diagram



Eastern Gas Transmission and Storage, Inc.

L.L. Tonkin Compressor Station

Boiler (BLR02) Process Flow Diagram



ATTACHMENT D
Title V Equipment Table

ATTACHMENT D - Title V Equipment Table
(includes all emission units at the facility except those designated as
insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/ Modified
001-01*	N/A	TRB01	Turbine, Solar T-4500	4,417 hp	1989
001-02*	N/A	TRB02	Solar Centaur 50 Combustion Turbine #2 with	6,035 hp	2016
001-03*	N/A	TRB03	Solar Centaur 50 Combustion Turbine #3 with Gas Compressor configuration	6,035 hp	2016
002-02*	LEC with AFR	AUX02	Caterpillar G3516 Generator Set with Spark Ignition using Natural Gas	1,462 hp	2016
004-02*	N/A	BLR02	Hurst LPW-G-70-60W Boiler, Natural Gas fired	2.94 mmBtu/hr	2016
TK01	N/A	TK01	Horizontal Aboveground Storage Tank – Drip Gas	3,000 gallon	1989
TK02	N/A	TK02	Horizontal Aboveground Storage Tank – Waste water	1,000 gallon	1989

¹For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

*This equipment burns or combusts only pipeline quality natural gas.

ATTACHMENT E
Emission Unit Forms

ATTACHMENT E - Emission Unit Form

Emission Unit Description			
Emission unit ID number: TRB01	Emission unit name: Turbine, Solar T-4500	List any control devices associated with this emission unit: N/A	
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Natural Gas-Fired Turbine			
Manufacturer: Solar	Model number: T-4500	Serial number: CC89440	
Construction date: 1989	Installation date: 1989	Modification date(s): N/A	
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 4,417 hp			
Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 8,760 hrs/yr	
Fuel Usage Data (fill out all applicable fields)			
Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired	
Maximum design heat input and/or maximum horsepower rating: 4,417 hp		Type and Btu/hr rating of burners: 9,124 Btu/hp-hr	
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. Pipeline quality natural gas <ul style="list-style-type: none"> - Maximum hourly fuel usage = 0.04576 MMscf/hr @ 0° F. - Maximum annual fuel usage = 384.18 MMscf/yr 			
Describe each fuel expected to be used during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline quality natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	5.10	44.16
Nitrogen Oxides (NO _x)	6.41	28.63
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.70	2.94
Particulate Matter (PM ₁₀)	0.70	2.94
Total Particulate Matter (TSP)	0.70	2.94
Sulfur Dioxide (SO ₂)	0.04	0.18
Volatile Organic Compounds (VOC)	0.30	1.55
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.0019	0.0082
Acrolein	0.0003	0.0013
Benzene	0.0006	0.0025
Ethylbenzene	0.0015	0.0065
Formaldehyde	0.0331	0.1452
Toluene	0.0061	0.0266
Xylene	0.0030	0.0131
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Notes:</p> <ol style="list-style-type: none"> 1 NO_x, CO, PM (all varieties), and VOC are based on vendor data as reflected in the applications for permit R13-1077B. Annual PTEs as reflected in Condition 4.1.1 of R13-1077B. 2 Others from AP-42, Section 3.1 (4/00) 		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

- 40 CFR 60 Subpart GG – Standards for Nitrogen Oxides (TV 4.1.1.a.i)
- 40 CFR 60 Subpart GG – Standards for Sulfur Dioxide (TV 4.1.1.a.iii)
- 45 CSR 13 – Turbine Emission Limits (TV 4.1.1, R13-1077B)
- 45 CSR 13 – Compliance with 40 CFR 60 Subpart GG (TV 4.1.1, R13-1077B, B.1)
- 45 CSR 13 – Pipeline quality natural gas (TV 4.1.1.b, R13-1077B, B.3)
- 45 CSR 13 – Install, operate, and maintain SoLoNO_x (TV 4.1.1.c, R13-1077B)
- 45 CSR 13 – Monitoring operating conditions and times (TV 4.2.1, R13-1077B 4.2.1)
- 45 CSR 13 – Recordkeeping (TV 4.4.1, R13-1077B, 4.4.4)

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

- 40 CFR 60 Subpart GG – NO_x compliance will be demonstrated by compliance test and recordkeeping. (TV 4.3.1)
- 40 CFR 60 Subpart GG – SO₂ will be limited by combusting only pipeline quality natural gas. (TV 4.4.2)
- 45 CSR 13 – Turbine emissions are limited by Operating Permit R13-1077B. (TV 4.4.1)
- 45 CSR 13 – Compliance will be demonstrated by compliance testing and recordkeeping. (TV 4.3.1, 4.4.1, 4.4.2)
- 45 CSR 13 – Tariff to demonstrate compliance with pipeline quality natural gas. (TV 4.4.2)
- 45 CSR 13 – Records will be kept for five years. (TV 3.4.2)

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: TRB02	Emission unit name: Turbine, Solar Centaur 50	List any control devices associated with this emission unit: N/A
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Natural Gas-Fired Turbine

Manufacturer: Solar	Model number: Centaur 50	Serial number: N/A
-------------------------------	------------------------------------	------------------------------

Construction date: 2016	Installation date: 2016 (NSPS KKKK and OOOOa-affected)	Modification date(s): N/A
-----------------------------------	--	-------------------------------------

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
6,035 hp

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 8,760 hrs/yr
--	--	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating: 6,035 hp	Type and Btu/hr rating of burners: 8,538 Btu/hp-hr
--	--

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

- Pipeline quality natural gas
- Maximum hourly fuel usage = 0.05802 MMscf/hr @ 0° F.
 - Maximum annual fuel usage = 491.2 MMscf/yr

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline quality natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	3.25	36.50
Nitrogen Oxides (NO _x)	3.20	14.43
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.89	3.76
Particulate Matter (PM ₁₀)	0.89	3.76
Total Particulate Matter (TSP)	0.89	3.76
Sulfur Dioxide (SO ₂)	0.06	0.23
Volatile Organic Compounds (VOC)	0.37	1.87
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.0024	0.0104
Acrolein	0.0004	0.0017
Benzene	0.0007	0.0031
Ethylbenzene	0.0019	0.0083
Formaldehyde	0.0420	0.1841
Toluene	0.0077	0.0337
Xylene	0.0038	0.0166
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:

- 1 NO_x, CO, PM (all varieties), and VOC are based on vendor data as reflected in the applications for permit R13-1077B. Annual PTEs as reflected in Condition 4.1.1 of R13-1077B.
- 2 Others from AP-42, Section 3.1 (4/00)

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

- 40 CFR 60 Subpart KKKK – Standards for Nitrogen Oxides (TV 4.1.2.a.i)
- 40 CFR 60 Subpart KKKK – Standards for Sulfur Dioxide (TV 4.1.2.a.iii)
- 45 CSR 13 – Turbine Emission Limits (TV 4.1.2, R13-1077B, A)
- 45 CSR 13 – Compliance with 40 CFR 60 Subpart KKKK (TV 4.1.2, R13-1077B, B.1)
- 45 CSR 13 – Pipeline quality natural gas (TV 4.1.2, R13-1077B, B.3)
- 45 CSR 13 – Install, operate, and maintain air pollution control equipment (SoLoNOx) (TV 4.1.2.c, R13-1077B)
- 45 CSR 13 – Monitoring operating conditions and times (TV 4.2.1, R13-1077B 4.2.1)
- 45 CSR 13 – Testing requirements (TV 4.3.2, R13-1077B 4.3.2)
- 45 CSR 13 – Recordkeeping (TV 4.4.1, R13-1077B, 4.4.4)
- 40 CFR 60 Subpart OOOOa – Standards for VOC and GHG from Natural Gas Facilities

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

- 40 CFR 60 Subpart KKKK – NOx compliance will be demonstrated by periodic compliance testing and recordkeeping. (TV 4.3.2)
- 40 CFR 60 Subpart KKKK – SO₂ will be limited by combusting only pipeline quality natural gas. (TV 4.4.2)
- 45 CSR 13 – Turbine emissions are limited by Operating Permit R13-1077B. (TV 4.4.1)
- 45 CSR 13 – Compliance will be demonstrated by compliance testing and recordkeeping. (TV 4.3.2, 4.4.1, 4.4.2)
- 45 CSR 13 – Tariff to demonstrate compliance with pipeline quality natural gas. (TV 4.4.2)
- 45 CSR 13 – Records will be kept for five years. (TV 3.4.2)
- 40 CFR 60 Subpart OOOOa – Periodic LDAR and reporting under NSPS OOOOa (applies to entire compressor station)

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: TRB03	Emission unit name: Turbine, Solar Centaur 50	List any control devices associated with this emission unit: N/A
--	---	--

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Natural Gas-Fired Turbine

Manufacturer: Solar	Model number: Centaur 50	Serial number: N/A
-------------------------------	------------------------------------	------------------------------

Construction date: 2016	Installation date: 2016 (NSPS KKKK and OOOOa-affected)	Modification date(s): N/A
-----------------------------------	--	-------------------------------------

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
6,035 hp

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 8,760 hrs/yr
--	--	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating: 6,035 hp	Type and Btu/hr rating of burners: 8,538 Btu/hp-hr
--	--

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Pipeline quality natural gas

- Maximum hourly fuel usage = 0.05802 MMscf/hr @ 0° F.
- Maximum annual fuel usage = 491.2 MMscf/yr

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline quality natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	3.25	36.50
Nitrogen Oxides (NO _x)	3.20	14.43
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.89	3.76
Particulate Matter (PM ₁₀)	0.89	3.76
Total Particulate Matter (TSP)	0.89	3.76
Sulfur Dioxide (SO ₂)	0.06	0.23
Volatile Organic Compounds (VOC)	0.37	1.87
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.0024	0.0104
Acrolein	0.0004	0.0017
Benzene	0.0007	0.0031
Ethylbenzene	0.0019	0.0083
Formaldehyde	0.0420	0.1841
Toluene	0.0077	0.0337
Xylene	0.0038	0.0166
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Notes:

- 1 NO_x, CO, PM (all varieties), and VOC are based on vendor data as reflected in the applications for permit R13-1077B. Annual PTEs as reflected in Condition 4.1.1 of R13-1077B.
- 2 Others from AP-42, Section 3.1 (4/00)

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

- 40 CFR 60 Subpart KKKK – Standards for Nitrogen Oxides (TV 4.1.2.a.i)
- 40 CFR 60 Subpart KKKK – Standards for Sulfur Dioxide (TV 4.1.2.a.iii)
- 45 CSR 13 – Turbine Emission Limits (TV 4.1.2, R13-1077B, A)
- 45 CSR 13 – Compliance with 40 CFR 60 Subpart KKKK (TV 4.1.2, R13-1077B, B.1)
- 45 CSR 13 – Pipeline quality natural gas (TV 4.1.2, R13-1077B, B.3)
- 45 CSR 13 – Install, operate, and maintain air pollution control equipment (SoLoNO_x) (TV 4.1.2.c, R13-1077B)
- 45 CSR 13 – Monitoring operating conditions and times (TV 4.2.1, R13-1077B 4.2.1)
- 45 CSR 13 – Testing requirements (TV 4.3.2, R13-1077B 4.3.2)
- 45 CSR 13 – Recordkeeping (TV 4.4.1, R13-1077B, 4.4.4)
- 40 CFR 60 Subpart OOOOa – Standards for VOC and GHG from Natural Gas Facilities

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

- 40 CFR 60 Subpart KKKK – NO_x compliance will be demonstrated by periodic compliance testing and recordkeeping. (TV 4.3.2)
- 40 CFR 60 Subpart KKKK – SO₂ will be limited by combusting only pipeline quality natural gas. (TV 4.4.2)
- 45 CSR 13 – Turbine emissions are limited by Operating Permit R13-1077B. (TV 4.4.1)
- 45 CSR 13 – Compliance will be demonstrated by compliance testing and recordkeeping. (TV 4.3.2, 4.4.1, 4.4.2)
- 45 CSR 13 – Tariff to demonstrate compliance with pipeline quality natural gas. (TV 4.4.2)
- 45 CSR 13 – Records will be kept for five years. (TV 3.4.2)
- 40 CFR 60 Subpart OOOOa – Periodic LDAR and reporting under NSPS OOOOa (applies to entire compressor station)

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: AUX02	Emission unit name: Emergency Reciprocating Engine/Auxiliary Generator; Caterpillar G3516	List any control devices associated with this emission unit: N/A
--	---	--

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Natural gas-fired emergency reciprocating engine/auxiliary generator

Manufacturer: Caterpillar	Model number: G3516	Serial number: 2DM02751
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Construction date: 2016 (NSPS JJJJ)	Installation date: 2017	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,462 hp

Maximum Hourly Throughput: N/A	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 500 hrs/yr
--	--	--

Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
--	---

Maximum design heat input and/or maximum horsepower rating: 1,462 hp	Type and Btu/hr rating of burners: 12.63 mmBtu/hr
--	---

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Pipeline quality natural gas
 - Maximum hourly fuel usage = 0.0012 MMscf/hr
 - Maximum annual fuel usage = 6.19 MMscf/yr

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline quality natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	6.19	1.55
Nitrogen Oxides (NO _x)	6.45	1.61
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.13	0.03
Particulate Matter (PM ₁₀)	0.13	0.03
Total Particulate Matter (TSP)	0.13	0.03
Sulfur Dioxide (SO ₂)	0.012	0.003
Volatile Organic Compounds (VOC)	1.74	0.34
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Acetaldehyde	0.0649	0.0162
Acrolein	0.1056	0.0264
Benzene	0.0056	0.0014
Ethylbenzene	0.0003	0.0001
Formaldehyde	1.0000	0.2500
Toluene	0.0052	0.0013
Xylene	0.0023	0.0006
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>All emission rates for the auxiliary generator were based on manufacturer's data or emission factors presented in the permit application for R13-1077B or USEPA's AP-42, Section 3.2, Natural Gas-Fired Reciprocating Engines, Table 3.2-3, 7/00.</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

40 CFR 60 Subpart JJJJ applicability, emission limits, and general requirements (TV 6.1.1, R13-1077B 4.1.4, 40 CFR §60.4243)
40 CFR 60 Subpart JJJJ operation and maintenance requirements (TV 6.1.2, 40 CFR §60.4234)
40 CFR 60 Subpart JJJJ air-to-fuel ratio controller operation (TV 6.1.3, 40 CFR §60.4243)
40 CFR 60 Subpart JJJJ General Provisions (TV 6.1.4, Table 3 to 40 CFR 60 Subpart JJJJ)

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

40 CFR 60 Subpart JJJJ emergency generator operating hour monitoring and recordkeeping requirements (TV 6.2.1, R13-1077B 4.2.3, 40 CFR §60.4245)
40 CFR 60 Subpart JJJJ testing requirements (TV 6.3.1 and 6.3.2, R13-1077B 4.3.3, 40 CFR §§60.4243 and 60.4244)
40 CFR 60 Subpart JJJJ recordkeeping requirements (TV 6.4.1, 40 CFR §60.4245)
40 CFR 60 Subpart JJJJ reporting requirements (TV 6.5.1, 40 CFR §60.4245) [Note: these requirements only apply if engine is operated for certain non-emergency purposes.]

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: BLR02	Emission unit name: Boiler, Hurst LPW-G-70-60W	List any control devices associated with this emission unit: N/A
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Provide a description of the emission unit (type, method of operation, design parameters, etc.):
2.94 MMBtu/hr natural gas-fired boiler

Manufacturer: Hurst	Model number: LPW-G-70-60W	Serial number: N/A
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Construction date: 2016	Installation date: 2016	Modification date(s): N/A
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
0.52 MMBtu/hr

Maximum Hourly Throughput: 2.94 MMBtu/hr	Maximum Annual Throughput: N/A	Maximum Operating Schedule: 8,760 hrs/yr
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Fuel Usage Data (fill out all applicable fields)

Does this emission unit combust fuel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it? <input type="checkbox"/> Indirect Fired <input checked="" type="checkbox"/> Direct Fired
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Maximum design heat input and/or maximum horsepower rating: 2.94 MMBtu/hr	Type and Btu/hr rating of burners: 2.94 MMBtu/hr
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List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Pipeline quality natural gas

- Maximum hourly fuel usage = 0.0028 MMscf/hr
- Maximum annual fuel usage = 25.25 MMscf/yr

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline quality natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf

<i>Emissions Data</i>		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.24	1.06
Nitrogen Oxides (NO _x)	0.29	1.26
Lead (Pb)	N/A	N/A
Particulate Matter (PM _{2.5})	0.022	0.10
Particulate Matter (PM ₁₀)	0.022	0.10
Total Particulate Matter (TSP)	0.022	0.10
Sulfur Dioxide (SO ₂)	0.003	0.012
Volatile Organic Compounds (VOC)	0.016	0.07
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	6.05E-06	2.65E-05
Formaldehyde	2.16E-04	9.47E-04
Toluene	9.80E-06	4.29E-05
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
<p>List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).</p> <p>Emission factors used for the boiler were obtained from US EPA's AP-42, Section 1.4, Natural Gas Combustion, (7/98) and are as used in the application for R13-1077B.</p>		

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or **construction permit** with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

45 CSR 2-3.1 – Opacity limit of less than ten (10) percent (TV 4.1.4)

Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (*Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.*)

45 CSR 2-3.1 – Opacity readings shall be conducted as necessary for this gas-fired boiler

Are you in compliance with all applicable requirements for this emission unit? Yes No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.