

March 25, 2021

New Mexico Environment Department Air Quality Bureau, Permits Section 525 Camino de los Marquez, Ste. 1 Santa Fe, New Mexico 87505 (505) 476-4300

RE: Application to Renew and Revise Title V Operating Permit No. P151R3

Corona Compressor Station Lincoln County, New Mexico

Transwestern Pipeline Company, LLC

Dear Sir/Madam:

On behalf of Transwestern Pipeline Company, LLC (Transwestern), Altamira-US, LLC is submitting the enclosed Application to Renew and Revise Title V Operating Permit No. P151R3 for the Corona Compressor Station. Permit No. P151R3 expires March 29, 2022. The site is located in Lincoln County, New Mexico.

This application to renew and revise Permit No. P151R3 incorporates the June 10, 2020 modification authorized under New Source Review (NSR) Permit No. 0858-M4. There have been no Technical or Significant Revisions to NSR Permit No. 0858-M4 since that time.

Based on recent guidance from Melinda Owens, we are enclosing one complete paper copy of the application, which includes the signed and notarized certification page. Electronic copies of the application files will be transmitted via secure electronic transfer upon request.

If you have any questions or comments, please contact Kerry Egan of Transwestern at (575) 347-6512 or Kerry.Egan@energytransfer.com.

Sincerely,

Altamira-US, LLC

Rita Zebian

Senior Project Manager

Rita Zebian

Cc: Kerry Egan, ETC

Chris Hansen, ETC

APPLICATION TO RENEW AND REVISE TITLE V OPERATING PERMIT NO. P151R3 CORONA COMPRESSOR STATION LINCOLN COUNTY, NM

MARCH 2021

Submitted to:

New Mexico Environment Department

Air Quality Bureau, Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, NM 87505

Prepared for:

Transwestern Pipeline Company, LLC

8501 Jefferson St NE Albuquerque, NM 87113 575-347-6512

Prepared by:

Altamira-US, LLC 2301 E. Lamar Blvd., Suite 200 Arlington, Texas 76006 817-617-2675

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Mail Application To:

New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505

Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb



For Department use only:

AIRS No.:

Universal Air Quality Permit Application

Use this application for NOI, NSR, or Title V sources.

Use this application for: the initial application, modifications, technical revisions, and renewals. For technical revisions, complete Sections, 1-A, 1-B, 2-E, 3, 9 and any other sections that are relevant to the requested action; coordination with the Air Quality Bureau permit staff prior to submittal is encouraged to clarify submittal requirements and to determine if more or less than these sections of the application are needed. Use this application for streamline permits as well.

See Section 1-I for submittal instructions for other permits.

for submittal instructions for other permits.
This application is submitted as (check all that apply): ☐ Request for a No Permit Required Determination (no fee) ☐ Updating an application currently under NMED review. Include this page and all pages that are being updated (no fee required). Construction Status: ☐ Not Constructed ☒ Existing Permitted (or NOI) Facility ☐ Existing Non-permitted (or NOI) Facility
Minor Source: ☐ a NOI 20.2.73 NMAC ☐ 20.2.72 NMAC application or revision ☐ 20.2.72.300 NMAC Streamline application
Title V Source: ☐ Title V (new) ☑ Title V renewal ☐ TV minor mod. ☑ TV significant mod. TV Acid Rain: ☐ New ☐ Renewal
PSD Major Source: ☐ PSD major source (new) ☐ minor modification to a PSD source ☐ a PSD major modification
Acknowledgements:
☑ I acknowledge that a pre-application meeting is available to me upon request. ☑ Title V Operating, Title IV Acid Rain, and NPR
applications have no fees.
🗆 \$500 NSR application Filing Fee enclosed OR 🗆 The full permit fee associated with 10 fee points (required w/ streamline
applications).
☐ Check No.: in the amount of
☑ I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched
(except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.
☐ This facility qualifies to receive assistance from the Small Business Environmental Assistance program (SBEAP) and qualifies for
50% of the normal application and permit fees. Enclosed is a check for 50% of the normal application fee which will be verified with
the Small Business Certification Form for your company.
☐ This facility qualifies to receive assistance from the Small Business Environmental Assistance Program (SBEAP) but does not
qualify for 50% of the normal application and permit fees. To see if you qualify for SBEAP assistance and for the small business
certification form go to https://www.env.nm.gov/aqb/sbap/small_business_criteria.html).
Citation: Please provide the low level citation under which this application is being submitted: 20.2.70.300.B.2 NMAC
(e.g. application for a new minor source would be 20.2.72.200.A NMAC, one example for a Technical Permit Revision is 20.2.72.219.B.1.b NMAC, a Title V acid rain application would be: 20.2.70.200.C NMAC)
20.2.72.217.D.T.0 TWIAC, a True v acid faili application would be. 20.2.70.200.0 TWIAC)

Section 1 – Facility Information

Sec	tion 1-A: Company Information	3 to 5 #s of permit IDEA ID No.):849	Updating Permit/NOI #: P-151R3					
1	Facility Name: Corona Compressor Station	Plant primary SIC Code (4 digits): 4922						
1	Corona Compressor station	Plant NAIC code (6 digits): 486210						
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): From Corona, travel 17 mi. E on St Rd 247, then S on Lincoln County Rd B007 for 15 mi. to station on the left.							
2	Plant Operator Company Name: Transwestern Pipeline Company, LLC	Phone/Fax: (575) 347-6	6512					
a	Plant Operator Address: 6381 Main St, Roswell, NM 88201							

b	Plant Operator's New Mexico Corporate ID or Tax ID: 74-1294795					
3	Plant Owner(s) name(s): Transwestern Pipeline Company, LLC	Phone/Fax: (575) 347-6512				
a	Plant Owner(s) Mailing Address(s): 8501 Jefferson St NE, Albuquerque, 1	NM 87113				
4	Bill To (Company): Transwestern Pipeline Company, LLC Phone/Fax: (575) 347-6512					
a	Mailing Address: 8501 Jefferson NE, Albuquerque, NM 87113	E-mail: Kerry.Egan@energytransfer.com				
5	□ Preparer: ■ Consultant: Rita Zebian, Altamira	Phone/Fax: (817) 617-2675 / (817) 617-2683				
a	Mailing Address: 2301 E Lamar Blvd., Ste. 200, Arlington, TX 76006	E-mail: rita.zebian@altamira-us.com				
6	Plant Operator Contact: Robert Stearns	Phone/Fax: (505) 347-6306				
a	Address: P.O. Box 710, Capitan, NM 88316	E-mail: Robert.stearns@energytransfer.com				
7	Air Permit Contact: Contact: Kerry Egan	Title: Environmental Specialist				
a	E-mail: Kerry.Egan@energytransfer.com	Phone/Fax: (575) 347-6512				
b	Mailing Address: 8501 Jefferson St NE, Albuquerque, NM 87113					
С	The designated Air permit Contact will receive all official correspondence	(i.e. letters, permits) from the Air Quality Bureau.				

Section 1-B: Current Facility Status

~ • •	tion 1-B. Current Facility Status	
1.a	Has this facility already been constructed? ☑ Yes ☐ No	1.b If yes to question 1.a, is it currently operating in New Mexico? ✓ Yes □ No
2	If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? ☐ Yes ☒ No	If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? ☑ Yes ☐ No
3	Is the facility currently shut down? ☐ Yes ☒ No	If yes, give month and year of shut down (MM/YY):
4	Was this facility constructed before 8/31/1972 and continuously operated s	since 1972? ⊠ Yes □ No
5	If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMA □Yes □No ☒N/A	C) or the capacity increased since 8/31/1972?
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? ☑ Yes ☐ No	If yes, the permit No. is: P-151R3
7	Has this facility been issued a No Permit Required (NPR)? ☐ Yes ☑ No	If yes, the NPR No. is:
8	Has this facility been issued a Notice of Intent (NOI)? ☐ Yes 🛮 No	If yes, the NOI No. is:
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☑ Yes ☐ No	If yes, the permit No. is: 0858M4
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☐ Yes ☒ No	If yes, the register No. is:

Section 1-C: Facility Input Capacity & Production Rate

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1	What is the	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)								
a Current Hourly: 31.3 MMscf Daily: 750 MMscf Annually: 274,000 MM										
b	Proposed	Hourly: 31.3 MMscf	Daily: 750 MMscf	Annually: 274,000 MMscf						
2	What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required)									
a	Current	Hourly: 31.3 MMscf	Daily: 750 MMscf	Annually: 274,000 MMscf						

ь	Proposed	Hourly: 31.3 MMscf	Daily: 750 MMscf	Annually: 274,000 MMscf
	1		•	i

Section 1-D: Facility Location Information

Deci	10H 1 D. 1	acmey Loca	tion information			
1	Section: 36	Range: 15E	Township: 4S	County: Lincoln		Elevation (ft): 5786
2	UTM Zone:	☐ 12 or 13		Datum: □ NAD 27	□ NAD 8	83 🛮 WGS 84
a	UTM E (in meter	rs, to nearest 10 meter	s): 469520	UTM N (in meters, to neares	t 10 meters):	3753270
b	AND Latitude ((deg., min., sec.):	33° 55' 09.80"	Longitude (deg., min., se	c.): -105°	19' 47.04"
3	Name and zip o	ode of nearest No	ew Mexico town: Corona, 8	38318		
4			m nearest NM town (attacl d B007 for 15 mi. to statio		From Con	rona, travel 17 mi. E on St Rd
5	The facility is 2	27.6 (distance) mi	les SE (direction) of Coron	a (nearest town).		
6	(specify)		one): ⊠ Private □ Indian/P			
7	on which the fa	acility is propose	ed to be constructed or op	erated: Lincoln County, \	Village of C	
8	closer than 50	km (31 miles) to aqb/modeling/class1ar	ly: Will the property on voor other states, Bernalillo Creas.html)? ☐ Yes ☐ No (2	County, or a Class I area (s	see	constructed or operated be
9	Name nearest C	Class I area: White	e Mountain Wilderness			
10	Shortest distance	ce (in km) from fa	cility boundary to the bour	ndary of the nearest Class I	area (to the	nearest 10 meters): 60.0 km
11			neter of the Area of Operation den removal areas) to neare			
12	"Restricted Ar continuous wal that would requ	rea" is an area to solid ls, or other continuire special equipr	Restricted Area: The entire which public entry is effect uous barriers approved by ment to traverse. If a large ified with signage only. Pu	tively precluded. Effective the Department, such as ru property is completely end	e barriers in agged physiclosed by fe	nclude continuous fencing, ical terrain with steep grade encing, a restricted area
13	Does the owner Yes N A portable statione location or	r/operator intend to o ionary source is no that can be re-ins	o operate this source as a pot a mobile source, such as talled at various locations,	oortable stationary source a an automobile, but a source such as a hot mix asphalt p	ns defined ince that can plant that is	n 20.2.72.7.X NMAC? be installed permanently at s moved to different job sites.
14			unction with other air regulant number (if known) of the	•	operty?	⊠ No □ Yes

Section 1-E: Proposed Operating Schedule (The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.)

1	Facility maximum operating $(\frac{\text{hours}}{\text{day}})$: 24	$\left(\frac{\text{days}}{\text{week}}\right): 7$	$(\frac{\text{weeks}}{\text{year}})$: 52	$(\frac{\text{hours}}{\text{year}}): 8,760$		
2	Facility's maximum daily operating schedule (if less	□AM □PM	End:	□AM □PM		
3	Month and year of anticipated start of construction:	N/A				
4	Month and year of anticipated construction completion: N/A					
5	Month and year of anticipated startup of new or mod	dified facility: N/A				
6	Will this facility operate at this site for more than or	ne year? ⊠ Yes □ No				

Section 1-F: Other Facility Information

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1	Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? Yes No If yes, specify:								
a	If yes, NOV date or description of issue:		NOV Tracking No:						
b	Is this application in response to any issue listed in 1-F, 1 o below:	r 1a above? ☐ Yes	☑ No If Yes, provide the 1c & 1d info						
c	Document Title:	Date:	Requirement # (or page # and paragraph #):						
d	Provide the required text to be inserted in this permit:								
2	Is air quality dispersion modeling or modeling waiver being	g submitted with this	application? ☐ Yes						
3	Does this facility require an "Air Toxics" permit under 20.2	2.72.400 NMAC & 20	0.2.72.502, Tables A and/or B? ☐ Yes ☒No						
4	Will this facility be a source of federal Hazardous Air Pollo	ıtants (HAP)? 🛮 Ye	s □ No						
a	If Yes, what type of source? \boxtimes Major ($\square \ge 10$ tpy of an OR \square Minor ($\square < 10$ tpy of any		= 13 3						
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? ☐ Yes	s ⊠ No							
	If yes, include the name of company providing commercial	electric power to the	facility:						
a	Commercial power is purchased from a commercial utility site for the sole purpose of the user.	company, which spe	cifically does not include power generated on						

Section 1-G: Streamline Application (This section applies to 20.2.72.300 NMAC Streamline applications only)

1 ☐ I have filled out Section 18, "Addendum for Streamline Applications." ☐ N/A (This is not a Streamline application.)

Section 1-H: Current Title V Information - Required for all applications from TV Sources (Title V-source required information for all applications submitted pursuant to 20.2.72 NMAC (Minor Construction Permits), or

20.2.74/20.2.79 NMAC (Major PSD/NNSR applications), and/or 20.2.70 NMAC (Title V))

Responsible Official (R.O.) Phone: 713-989-7447 (20.2.70.300.D.2 NMAC): Clint Green R.O. Title: VP of Operations R.O. e-mail: Clint.Green@energytransfer.com R. O. Address: 1300 Main Street, Houston, TX 77002 Alternate Responsible Official 2 Phone: (575) 347-6514 (20.2.70.300.D.2 NMAC): Dave Roybal A. R.O. Title: Director of Operations A. R.O. e-mail: David.Roybal@energytransfer.com A. R. O. Address: 8501 Jefferson St NE Albuquerque, NM 87113 Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership 3 relationship): None Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be 4 permitted wholly or in part.): Energy Transfer Partners, L.P. Address of Parent Company: 8111 Westchester Drive, Suite 600, Dallas, TX 75225 Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are 5 owned, wholly or in part, by the company to be permitted.): None Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: Robert Stearns (505) 347-6 6306; Kerry Egan (575) 808-9402

7

Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: Mescalero Indian Reservation, 76 km

Section 1-I – Submittal Requirements

Each 20.2.73 NMAC (**NOI**), a 20.2.70 NMAC (**Title V**), a 20.2.72 NMAC (**NSR** minor source), or 20.2.74 NMAC (**PSD**) application package shall consist of the following:

Hard Copy Submittal Requirements:

- 1) One hard copy original signed and notarized application package printed double sided 'head-to-toe' 2-hole punched as we bind the document on top, not on the side; except Section 2 (landscape tables), which should be head-to-head. Please use numbered tab separators in the hard copy submittal(s) as this facilitates the review process. For NOI submittals only, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. Please include a copy of the check on a separate page.
- 2) If the application is for a minor NSR, PSD, NNSR, or Title V application, include one working hard **copy** for Department use. This <u>copy</u> should be printed in book form, 3-hole punched, and <u>must be double sided</u>. Note that this is in addition to the head-to-to 2-hole punched copy required in 1) above. Minor NSR Technical Permit revisions (20.2.72.219.B NMAC) only need to fill out Sections 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical permit revision. TV Minor Modifications need only fill out Sections 1-A, 1-B, 1-H, 3, and those portions of other Section(s) relevant to the minor modification. NMED may require additional portions of the application to be submitted, as needed.
- 3) The entire NOI or Permit application package, including the full modeling study, should be submitted electronically. Electronic files for applications for NOIs, any type of General Construction Permit (GCP), or technical revisions to NSRs must be submitted with compact disk (CD) or digital versatile disc (DVD). For these permit application submittals, two CD copies are required (in sleeves, not crystal cases, please), with additional CD copies as specified below. NOI applications require only a single CD submittal. Electronic files for other New Source Review (construction) permits/permit modifications or Title V permits/permit modifications can be submitted on CD/DVD or sent through AQB's secure file transfer service.

Electronic files sent by (check one):

- ☐ CD/DVD attached to paper application
- ☑ secure electronic transfer. Air Permit Contact Name Rita Zebian

Email rita.zebian@altamira-us.com

Phone number 817-617-2675

- a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**
- 4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.
- 5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling **summary report only** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.
- 6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
 - a. one additional CD copy for US EPA,
 - b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
 - c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

If the application is submitted electronically through the secure file transfer service, these extra CDs do not need to be submitted.

Electronic Submittal Requirements [in addition to the required hard copy(ies)]:

- 1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.
- 2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible format shall be saved as a PDF file from within the electronic document that created the file. If you are unable to provide Microsoft office compatible electronic files or internally generated PDF files of files (items that were not created electronically: i.e. brochures, maps, graphics, etc.), submit these items in hard copy format. We must be able to review the formulas and inputs that calculated the emissions.
- 3) It is preferred that this application form be submitted as 4 electronic files (3 MSWord docs: Universal Application section 1 [UA1], Universal Application section 3-19 [UA3], and Universal Application 4, the modeling report [UA4]) and 1 Excel file of the tables (Universal Application section 2 [UA2]). Please include as many of the 3-19 Sections as practical in a single MS Word electronic document. Create separate electronic file(s) if a single file becomes too large or if portions must be saved in a file format other than MS Word.
- 4) The electronic file names shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Universal Application shall be in the format: "A-3423-FacilityName". The "A" distinguishes the file as an application submittal, as opposed to other documents the Department itself puts into the database. Thus, all electronic application submittals should begin with "A-". Modifications to existing facilities should use the core permit number (i.e. '3423') the Department assigned to the facility as the next 4 digits. Use 'XXXX' for new facility applications. The format of any separate electronic submittals (additional submittals such as non-Word attachments, re-submittals, application updates) and Section document shall be in the format: "A-3423-9-description", where "9" stands for the section # (in this case Section 9-Public Notice). Please refrain, as much as possible, from submitting any scanned documents as this file format is extremely large, which uses up too much storage capacity in our database. Please take the time to fill out the header information throughout all submittals as this will identify any loose pages, including the Application Date (date submitted) & Revision number (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. Do not use special symbols (#, @, etc.) in file names. The footer information should not be modified by the applicant.

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Section 16: Air Dispersion Modeling Section 17: Compliance Test History

Section 18: Addendum for Streamline Applications (streamline applications only)

Section 19: Requirements for the Title V (20.2.70 NMAC) Program (Title V applications only)

Section 20: Other Relevant Information

Section 21: Addendum for Landfill Applications

Section 22: Certification Page

Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit	Source Description	Make	Model #	Serial #	Manufact- urer's Rated Capacity ³	Requested Permitted Capacity ³	Date of Manufacture ²	Controlled by Unit #	Source Classi- fication Code	For Each Piece of Ed	quipment, Check One	RICE Ignition Type (CI, SI,	SI, Replacing									
Number ¹	Source Description			3 01 11	(Specify Units)	(Specify Units)	Date of Construction/ Reconstruction ²	Emissions vented to Stack #	(SCC)	Tot But Titee of Ex	quipment, cheen one	4SLB, 4SRB, 2SLB) ⁴	Unit No.									
801	Compressor Engine	Cooper	V-250	46611	5000 Hp	5000 Hp	1967	N/A	20200252	 Existing (unchanged) New/Additional 	To be Removed Replacement Unit	2SLB										
801	Compressor Engine	Bessemer	V-230	40011	3000 Hp	3000 Hp	1967	001	20200232	To Be Modified	To be Replaced	ZSLB										
802	Compressor Engine	Cooper	V-250	47210	5000 Hp	5000 Hp	1968	N/A	20200252	 Existing (unchanged) New/Additional 	To be Removed Replacement Unit	2SLB										
802	Compressor Engine	Bessemer	V-230	4/210	3000 Hp	2000 Hp	1968	002	20200232	To Be Modified	To be Replaced	ZSLD										
803	Compressor Engine	Cotomillon	G3616	ZZY00878	4783 Hp	4783 Hp	12/19/2018	803C	20200254	☐ Existing (unchanged) ■ New/Additional	To be Removed Replacement Unit	4SLB										
803	Compressor Engine	Caterpillar	03010	ZZ I 000/0	4/83 пр	4/83 пр	11/2020	006	20200234	To Be Modified	To be Replaced	4SLD										
921	Commente of Europe	W11	F3520G	129315	418 HP	418 HP	1967	N/A	20200252	Existing (unchanged) New/Additional	■ To be Removed Replacement Unit	4SRB										
821	Generator Engine	Waukesha	U	129315	418 HP	418 HP	1967	821	20200253	20200253	To Be Modified	To be Replaced	45KB									
022	G . F .	XX7 1 1	F3520G	120010	410 IID	410 IID	2003	N/A	20200252	Existing (unchanged)	■ To be Removed	ACDD										
822	Generator Engine	Waukesha	U	129010	418 HP	418 HP	2003	822	20200253	New/Additional To Be Modified	Replacement Unit To be Replaced	4SRB										
5		-		111 = 00			1/10/2020	N/A		☐ Existing (unchanged)	To be Removed	27/1										
GEN-1 ⁵	Microturbine	Capstone	C800S	111599	268 Hp	268 Hp	11/2020	007	20100201	20100201	20100201	20100201	20100201	20100201	20100201	20100201	20100201	007	 New/Additional To Be Modified 	Replacement Unit To be Replaced	N/A	
							1/13/2020	N/A		☐ Existing (unchanged)	To be Removed											
GEN-1 ⁵	Microturbine	Capstone	C800S	111601	268 Hp	268 Hp	11/2020	008	20200201	 New/Additional To Be Modified 	Replacement Unit To be Replaced	N/A										
							1/13/2020	N/A		☐ Existing (unchanged)	To be Removed											
GEN-1 ⁵	Microturbine	Capstone	C800S	111796	268 Hp	268 Hp	11/2020	009	20200201	 New/Additional To Be Modified 	Replacement Unit To be Replaced	N/A										
							8/26/2019	N/A		☐ Existing (unchanged)	To be Removed											
GEN-1 ⁵	Microturbine	Capstone	C800S	111471	268 Hp	268 Hp	11/2020	010	20200201	 New/Additional To Be Modified 	Replacement Unit To be Replaced	N/A										
							1967	N/A		Existing (unchanged)	To be Removed											
TANK	Condensate Tank	N/A	N/A	N/A	21,000 gal	21,000 gal	1967	TANK	40400311	New/Additional	Replacement Unit	N/A										
							1967	N/A		To Be Modified Existing (unchanged)	To be Replaced To be Removed											
MIST	Mist Extractor	N/A	N/A	N/A	1,100 gal	1,100 gal	1967	MIST	40400311	New/Additional	Replacement Unit	N/A										
							1907			To Be Modified Existing (unchanged)	To be Replaced To be Removed											
SSMM	SSMM	N/A	N/A	N/A	N/A	N/A	-	N/A	31088811	New/Additional	Replacement Unit	N/A										
			SP-				-	SSMM		To Be Modified Existing (unchanged)	To be Replaced To be Removed											
803C	Oxidation Catalyst	Miratech	RHSIGA-	N/A	N/A	N/A	N/A	N/A	31000299	■ New/Additional	Replacement Unit	N/A										
1	ore must correspond to u		72				11/2020	803		To Be Modified	To be Replaced											

¹ Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

Form Revision: 5/3/2016 Table 2-A: Page 1 Printed 3/23/2021 1:16 PM

² Specify dates required to determine regulatory applicability.

³ To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

^{4&}quot;4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignitio

⁵ Unit GEN-1 is a generator package that is comprised of four individual micro-turbine units. Each micro-turbine has its own serial number

Table 2-B: Insignificant Activities (20.2.70 NMAC) **OR** Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at

http://www.env.nm.gov/agb/forms/InsignificantListTitleV.pdf. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction ²	For Each Piece of Equipment, Check Onc
ome i vamber	Source Description	Manufacturer	Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction ²	
FUG	Piping Component Fugitive	N/A	N/A	N/A	20.2.72.202.B.5	1967	■ Existing (unchanged) To be Removed New/Additional Replacement Unit
PUG	Piping Component Fugitive	N/A	N/A	N/A	IA List Item # 1.a	1967	To Be Modified To be Replaced
LOAD		27/4	N/A	N/A	20.2.72.202.B.5	1967	Existing (unchanged) To be Removed
LOAD	Condensate Truck Loading	N/A	N/A	N/A	IA List Item # 1.a	1967	New/Additional Replacement Unit To Be Modified To be Replaced
		27/1	N/A	210	20.2.72.202.B.2	1967	Existing (unchanged) To be Removed
TK-LO	Lube Oil Tanks	N/A	N/A	bbl	IA List Item # 1.a	1967	New/Additional Replacement Unit To Be Modified To be Replaced
THE A D	Ed 1 Cl 1m 1	27/4	N/A	65	20.2.72.202.B.2	1967	Existing (unchanged) To be Removed
TK-AF	Ethylene Glycol Tanks	N/A	N/A	bbl	IA List Item # 1.a	1967	New/Additional Replacement Unit To Be Modified To be Replaced
			N/A	500	20.2.72.202.B.2	1967	■ Existing (unchanged) To be Removed
TK-WW	Oily Wastewater Tank	N/A	N/A	bbl	IA List Item # 1.a	1967	New/Additional Replacement Unit To Be Modified To be Replaced
			N/A	100	20.2.72.202.B.2	2020	Existing (unchanged) To be Removed
T-3007	Unit 803 Lube Oil Tank	N/A	182571 FL	bbl	IA List Item # 1.a	2020	■ New/Additional Replacement Unit To Be Modified To be Replaced
			N/A	100	20.2.72.202.B.5	2020	Existing (unchanged) To be Removed
T-3006	Unit 803 Condensate Tank	N/A	182573	bbl	IA List Item # 1.a	2020	■ New/Additional Replacement Unit To Be Modified To be Replaced
			N/A	100	20.2.72.202.B.2	2020	Existing (unchanged) To be Removed
T-3008	Unit 803 Coolant Tank	N/A	182574	bbl	IA List Item # 1.a	2020	■ New/Additional Replacement Unit To Be Modified To be Replaced
			N/A	100	20.2.72.202.B.2	2020	Existing (unchanged) To be Removed
T-3005	Unit 803 Used Oil/Slop Tank	N/A	182572 FL	bbl	IA List Item # 1.a	2020	■ New/Additional Replacement Unit To Be Modified To be Replaced
							Existing (unchanged) To be Removed
							New/Additional Replacement Unit To Be Modified To be Replaced
							Existing (unchanged) To be Removed
							New/Additional Replacement Unit To Be Modified To be Replaced
							Existing (unchanged) To be Removed New/Additional Replacement Unit
							To Be Modified To be Replaced Existing (unchanged) To be Removed New/Additional Replacement Unit To Be Modified To be Replaced

¹ Insignificant activities exempted due to size or production rate are defined in 20.2.70.300.D.6, 20.2.70.7.Q NMAC, and the NMED/AQB List of Insignificant Activities, dated September 15, 2008. Emissions from these insignificant activities do not need to be reported, unless specifically requested.

Form Revision: 7/8/2011 Table 2-B: Page 1 Printed 3/23/2021 12:11 PM

² Specify date(s) required to determine regulatory applicability.

Table 2-C: Emissions Control Equipment

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP's maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions.

803 CO - 93%, CH ₂ O NO - 79%, CH ₂ O NO	Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s) ¹	Efficiency (% Control by Weight) CO - 93%, CH ₂ O -	Method used to Estimate Efficiency
	803C	Oxidation Catalyst	TBD	CO, CH ₂ O	803	CO - 93%, CH ₂ O - 79%	Mfr Specs
¹ List each control device on a separate line. For each control device, list all emission units controlled by the control device.	1						

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Table 2-D: Maximum Emissions (under normal operating conditions)

This Table was intentionally left blank because it would be identical to Table 2-E.

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

TI 'A NI	N	Ox	C	O	V	OC	SO	Ox	P	\mathbf{M}^1	PM	110 ¹	PM	[2.5 ¹	Н	₂ S	Le	ead
Unit No.	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
801	205.50	900.00	16.53	72.42	9.92	43.45	0.080	0.35	1.81	7.93	1.81	7.93	1.81	7.93	-	-	-	-
802	205.50	900.00	16.53	72.42	9.92	43.45	0.080	0.35	1.81	7.93	1.81	7.93	1.81	7.93	-	-	-	-
803	3.16	13.86	26.36	115.46	3.56	15.59	0.077	0.34	0.36	1.58	0.36	1.58	0.36	1.58	-	-	-	-
GEN-1	0.33	1.45	0.88	3.83	0.080	0.35	0.020	0.085	0.060	0.26	0.060	0.26	0.060	0.26	-	-	-	-
MIST /	_	_	_	_	6.59	28.8	-	-	_	-	_	_	_	_	_	-	_	_
TANK ²	_	_		_	0.59		_	_	_	_	_	_		_		_	_	_
SSMM	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-
Totals	414.49	1815.31	60.30	264.13	30.07	141.64	0.26	1.13	4.04	17.70	4.04	17.70	4.04	17.70	-	-	-	-

¹Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but PM is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

Form Revision: 6/14/2019 Table 2-D: Page 1 Printed 3/23/2021 12:11 PM

² Emissions for the mist extractor (Unit No. MIST) are included in the totals given for the pipeline liquid tank, which is Unit No. TANK.

Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E⁻⁴).

Unit No.	N	Ox	C	O	V	OC	S	Ox	P	M^1	PM	110 ¹	PM	(2.5^1)	Н	I_2S	Le	ead
Unit No.	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
801	205.50	900.00	16.53	72.42	9.92	43.45	0.080	0.35	1.81	7.93	1.81	7.93	1.81	7.93	-	-	-	-
802	205.50	900.00	16.53	72.42	9.92	43.45	0.080	0.35	1.81	7.93	1.81	7.93	1.81	7.93	-	-	-	-
803	3.16	13.86	1.90	8.31	3.56	15.59	0.077	0.34	0.36	1.58	0.36	1.58	0.36	1.58	-	-	-	-
GEN-1	0.33	1.45	0.88	3.83	0.080	0.35	0.020	0.085	0.060	0.26	0.060	0.26	0.060	0.26	-	-	-	-
MIST / TANK ²	-	-	1	-	6.59	28.8	-	-	-	-	-	-	-	-	-	-	i	-
SSMM	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-
Totals	414.49	1815.31	35.84	156.98	30.07	141.64	0.26	1.13	4.04	17.70	4.04	17.70	4.04	17.70	-	-	-	-

Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

Form Revision: 6/14/2019 Table 2-E: Page 1 Printed 3/23/2021 12:11 PM

² Emissions for the mist extractor (Unit No. MIST) are included in the totals given for the pipeline liquid tank, which is Unit No. TANK.

Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM)

□ This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scenduled maintenance are no higher than those listed in Table 2-E and a malfunction emission limit is not already permitted or requested. If you are required to report GHG emissions as described in Section 6a, include any GHG emissions during Startup, Shutdown, and/or Scheduled Maintenance (SSM) in Table 2-P. Provide an explanations of SSM emissions in Section 6 and 6a.

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)¹, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). In Section 6 and 6a, provide emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications

(https://www.env.nm.gov/agb/permit/agb_pol.html) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.						OC		Ox								₂ S	Le	ead
	lb/hr	ton/yr	lb/hr	ton/yr														
SSMM	-		-	-	-	10.0	-	-	-	-	-	-	-	-	-	-	-	-
Totals						10.0												

Teor instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in this table. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

Form Revision: 6/14/2019 Table 2-F: Page 1 Printed 3/23/2021 12:11 PM

² Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

Table 2-G: Stack Exit and Fugitive Emission Rates for Special Stacks

☑ I have elected to leave this table blank because this facility does not have any stacks/vents that split emissions from a single source or combine emissions from more than one source listed in table 2-A. Additionally, the emission rates of all stacks match the Requested allowable emission rates stated in Table 2-E.

Use this table to list stack emissions (requested allowable) from split and combined stacks. List Toxic Air Pollutants (TAPs) and Hazardous Air Pollutants (HAPs) in Table 2-I. List all fugitives that are associated with the normal, routine, and non-emergency operation of the facility. Unit and stack numbering must correspond throughout the application package. Refer to Table 2-E for instructions on use of the "-" symbol and on significant figures.

	Serving Unit	N	Ox	C	0	V	OC	SO	Ox	P	M	PM	110	PM	12.5	H ₂ S or	Lead
Stack No.	Number(s) from Table 2-A	lb/hr	ton/yr	lb/hr	ton/yr												
,	Totals:																

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Table 2-H: Stack Exit Conditions

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions. If the facility has multiple operating scenarios, complete a separate Table 2-H for each scenario and, for each, type scenario name here:

Stack	Serving Unit Number(s)	Orientation (H-Horizontal	Rain Caps	Height Above	Temp.	Flow	Rate	Moisture by	Velocity	Inside
Number	from Table 2-A	V=Vertical)	(Yes or No)	Ground (ft)	(F)	(acfs)	(dscfs)	Volume (%)	(ft/sec)	Diameter (ft)
001	801	V	No	41	750	261			53.3	2.50
002	802	V	No	41	750	261			53.3	2.50
006	803	V	No	65	159.29	263			838.0	2
007	GEN-1	V	No	9	636.62	420			534.99	1
008	GEN-1	V	No	9	636.62	420			534.99	1
009	GEN-1	V	No	9	636.62	420			534.99	1
010	GEN-1	V	No	9	636.62	420			534.99	1
										_

Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or

the pollutant is emitted in a quantity less than the threshold amounts described above.

	Unit No.(s)	Total	HAPs	Acetal	dehyde	Acre	olein	Forma	ldehyde or TAP		hanol or TAP	Name	Pollutant Here or TAP	Name	Pollutant e Here or TAP	Name	Pollutant Here or TAP	Name	Pollutant e Here or TAP
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
001	801	2.8	12.4	0.3	1.3	0.3	1.3	2.1	9.1	0.1	0.4								
002	802	2.8	12.4	0.3	1.3	0.3	1.3	2.1	9.1	0.1	0.4								
006	803	1.0	4.5	0.3	1.2	0.3	1.2	0.3	1.4	0.1	0.4								
007	GEN-1	-	-	-	-	-	-	-	-	-	-								
008	GEN-1	-	-	-	-	-	-	-	-	-	-								
009	GEN-1	-	-	-	-	-	-	-	-	-	-								
010	GEN-1	-	-	-	-	-	-	-	-	-	-								
Tot	als:	6.6	29.3	0.9	3.8	0.9	3.8	4.5	19.6	0.3	1.2								1

Form Revision: 10/9/2014 Table 2-I: Page 1 Printed 3/23/2021 12:11 PM

Table 2-J: Fuel

Specify fuel characteristics and usage. Unit and stack numbering must correspond throughout the application package.

	Fuel Type (low sulfur Diesel,	Fuel Source: purchased commercial, pipeline quality natural gas, residue		Spec	cify Units		
Unit No.	ultra low sulfur diesel, Natural Gas, Coal,)	gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Lower Heating Value	Hourly Usage	Annual Usage	% Sulfur	% Ash
801	Natural Gas	Raw/Field Natural Gas	1020 Btu/scf	0.037 MMscfh	322.06 MMscfy	0.75 gr/100 scf	0
802	Natural Gas	Raw/Field Natural Gas	1020 Btu/scf	0.037 MMscfh	322.06 MMscfy	0.75 gr/100 scf	0
803	Natural Gas	Raw/Field Natural Gas	1020 Btu/scf	0.035 MMscfh	310.18 MMscfy	0.75 gr/100 scf	0
GEN-1	Natural Gas	Raw/Field Natural Gas	1020 Btu/scf	0.0089 MMscfh	78.32 MMscfy	0.75 gr/100 scf	0

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Table 2-K: Liquid Data for Tanks Listed in Table 2-L

For each tank, list the liquid(s) to be stored in each tank. If it is expected that a tank may store a variety of hydrocarbon liquids, enter "mixed hydrocarbons" in the Composition column for that tank and enter the corresponding data of the most volatile liquid to be stored in the tank. If tank is to be used for storage of different materials, list all the materials in the "All Calculations" attachment, run the newest version of TANKS on each, and use the material with the highest emission rate to determine maximum uncontrolled and requested allowable emissions rate. The permit will specify the most volatile category of liquids that may be stored in each tank. Include appropriate tank-flashing modeling input data. Use additional sheets if necessary. Unit and stack numbering must correspond throughout the application package.

					Vapor	Average Stora	age Conditions	Max Storag	ge Conditions
Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Molecular Weight (lb/lb*mol)	Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
TANK	40400311	Condensate	Hydrocarbon Liquids	5.6	69	63.26	3.14	70.78	3.66
MIST	40400311	Condensate	Hydrocarbon Liquids	5.6	69	63.26	3.14	70.78	3.66

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Table 2-L: Tank Data

Include appropriate tank-flashing modeling input data. Use an addendum to this table for unlisted data categories. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary. See reference Table 2-L2. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2	Roof Type (refer to Table 2-	Сар	acity	Diameter (M)	Vapor Space	Co (from Ta	olor ble VI-C)	Paint Condition (from Table	Annual Throughput (gal/yr)	Turn- overs
			LR below)	LR below)	(bbl)	(M^3)		(M)	Roof	Shell	VI-C)	(gal/yr)	(per year)
TANK	1967	Condensate	N/A	FX	500	80	4.9	N/A	WH	WH	Good	35,000	1.67
MIST	1967	Condensate	N/A	FX	26	4	0.9	N/A	WH	WH	Good	35,000	32

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Table 2-L2: Liquid Storage Tank Data Codes Reference Table

Roof Type	Seal Type, We	elded Tank Seal Type	Seal Type, Rive	ted Tank Seal Type	Roof, Shell Color	Paint Condition
FX: Fixed Roof	Mechanical Shoe Seal	Liquid-mounted resilient seal	Vapor-mounted resilient seal	Seal Type	WH: White	Good
IF: Internal Floating Roof	A: Primary only	A: Primary only	A: Primary only	A: Mechanical shoe, primary only	AS: Aluminum (specular)	Poor
EF: External Floating Roof	B: Shoe-mounted secondary	B: Weather shield	B: Weather shield	B: Shoe-mounted secondary	AD: Aluminum (diffuse)	
P: Pressure	C: Rim-mounted secondary	C: Rim-mounted secondary	C: Rim-mounted secondary	C: Rim-mounted secondary	LG: Light Gray	
					MG: Medium Gray	
Note: $1.00 \text{ bbl} = 0.159 \text{ M}^3$	= 42.0 gal				BL: Black	
					OT: Other (specify)	

Table 2-M: Materials Processed and Produced (Use additional sheets as necessary.)

	Materi	al Processed		N	Iaterial Produced		
Description	Chemical Composition	Phase (Gas, Liquid, or Solid)	Quantity (specify units)	Description	Chemical Composition	Phase	Quantity (specify units)
Natural Gas Transmission	Natural Gas	Gas	750 MMscfd	None			

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Table 2-N: CEM Equipment

Enter Continuous Emissions Measurement (CEM) Data in this table. If CEM data will be used as part of a federally enforceable permit condition, or used to satisfy the requirements of a state or federal regulation, include a copy of the CEM's manufacturer specification sheet in the Information Used to Determine Emissions attachment. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

Stack No.	Pollutant(s)	Manufacturer	Model No.	Serial No.	Sample Frequency	Averaging Time	Range	Sensitivity	Accuracy
None									
			_	_					

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Table 2-O: Parametric Emissions Measurement Equipment

Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

Unit No.	Parameter/Pollutant Measured	Location of Measurement	Unit of Measure	Acceptable Range	Frequency of Maintenance	Nature of Maintenance	Method of Recording	Averaging Time
None								

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Table 2-P: Greenhouse Gas Emissions

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit.

Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box

By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

		CO ₂ ton/yr	N ₂ O ton/yr	CH ₄ ton/yr	SF ₆ ton/yr	PFC/HFC ton/yr²					Total GHG Mass Basis ton/yr ⁴	Total CO ₂ e ton/yr ⁵
Unit No.	GWPs 1	1	298	25	22,800	footnote 3						
801	mass GHG	19,213	0.036	0.36							19,213	
	CO ₂ e	19,233	0.026	0.26							10.010	19,233
802	mass GHG	19,213	0.036	0.36							19,213	10.000
	CO ₂ e	19,233	0.025	0.25							10.501	19,233
803	mass GHG	18,504	0.035	0.35							18,504	10.522
	CO ₂ e	18,523	0.000	0.000							4.672	18,523
GEN 1	mass GHG	4,672	0.009	0.088							4,672	4.677
	CO ₂ e	4,677										4,677
	mass GHG											
	CO ₂ e mass GHG											
l	CO ₂ e										 	
	mass GHG											
	CO ₂ e											
	mass GHG											
	CO ₂ e											
	mass GHG											
	CO ₂ e											
	mass GHG											
	CO ₂ e											
	mass GHG											
	CO ₂ e											
	mass GHG											
	CO ₂ e											
	mass GHG											
	CO ₂ e											
	mass GHG											
	CO ₂ e											
T- ()	mass GHG	61,602	0.12	1.16							61602	
Total	CO ₂ e	61,666										61666

TGWP (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

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² For HFCs or PFCs describe the specific HFC or PFC compound and use a separate column for each individual compound.

³ For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

⁴ Green house gas emissions on a**mass basis** is the ton per year green house gas emission before adjustment with its GWP.

⁵ CO₂e means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

Application Summary

The <u>Application Summary</u> shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. If this facility is to be collocated with another facility, provide details of the other facility including permit number(s). In case of a revision or modification to a facility, provide the lowest level regulatory citation (i.e. 20.2.72.219.B.1.d NMAC) under which the revision or modification is being requested. Also describe the proposed changes from the original permit, how the proposed modification will affect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

The **Process Summary** shall include a brief description of the facility and its processes.

<u>Startup</u>, Shutdown, and Maintenance (SSM) routine or predictable emissions: Provide an overview of how SSM emissions are accounted for in this application. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions.

This is an application for renewal and modification of Operating Permit No. P151R3 pursuant to 20.2.70.300.B.2. NMAC. Operating Permit No. P151R3, issued to the Corona Compressor Station (Corona), was last revised on March 29, 2017 and expires on March 29, 2022. A renewal application is due 12 months prior to permit expiration.

Corona Compressor Station is authorized under New Source Review (NSR) Permit No. 0858-M4, which was last modified on June 10, 2020. This application to renew and revise Operating Permit No. P151R3 incorporates the modification authorized under NSR Permit No. 0858-M4. There have been no Technical or Significant Revisions to NSR Permit No. 0858-M4 since that time.

Corona Compressor Station is a natural gas compressor station. Gas entering the station is compressed by three compressors powered by internal combustion engines. Prior to compression, the gas flows through a separator/scrubber, where any free liquids (condensate) will drop out. These liquids are then manually dumped into the mist extractor to allow flash off due to pressure change. The pipeline liquids are then routed to a storage tank prior to removal via tank truck. Depending on liquid production, condensate will either stay in the mist extractor or flow to the condensate storage tank. Condensate is periodically hauled away by trucks. The compressor station does not have access to permanent electrical grid power. Therefore, a microturbine power package comprised of four generators packaged together provides power for the station.

SSM calculations related to startup, shutdown, and maintenance of the engines at Corona are included in this application.

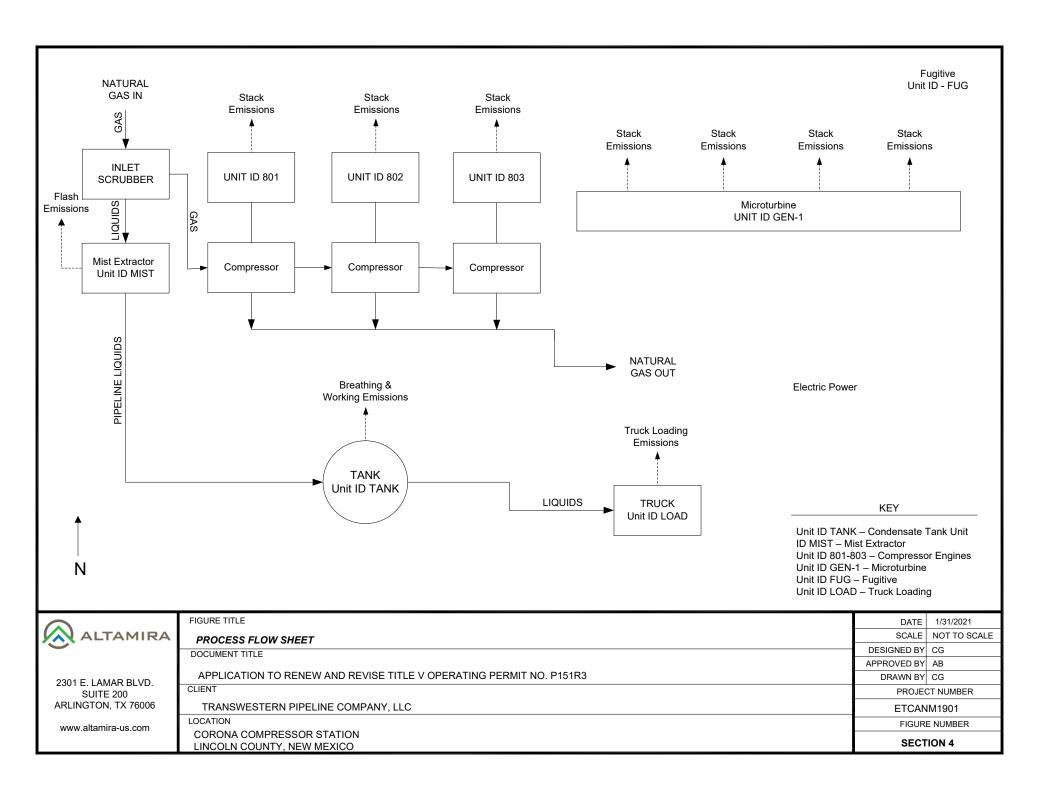
Process Flow Sheet

	and/or block diagram indicating the individual equipment, all emission points and types of control The unit numbering system should be consistent throughout this application.	ol
See attached.		

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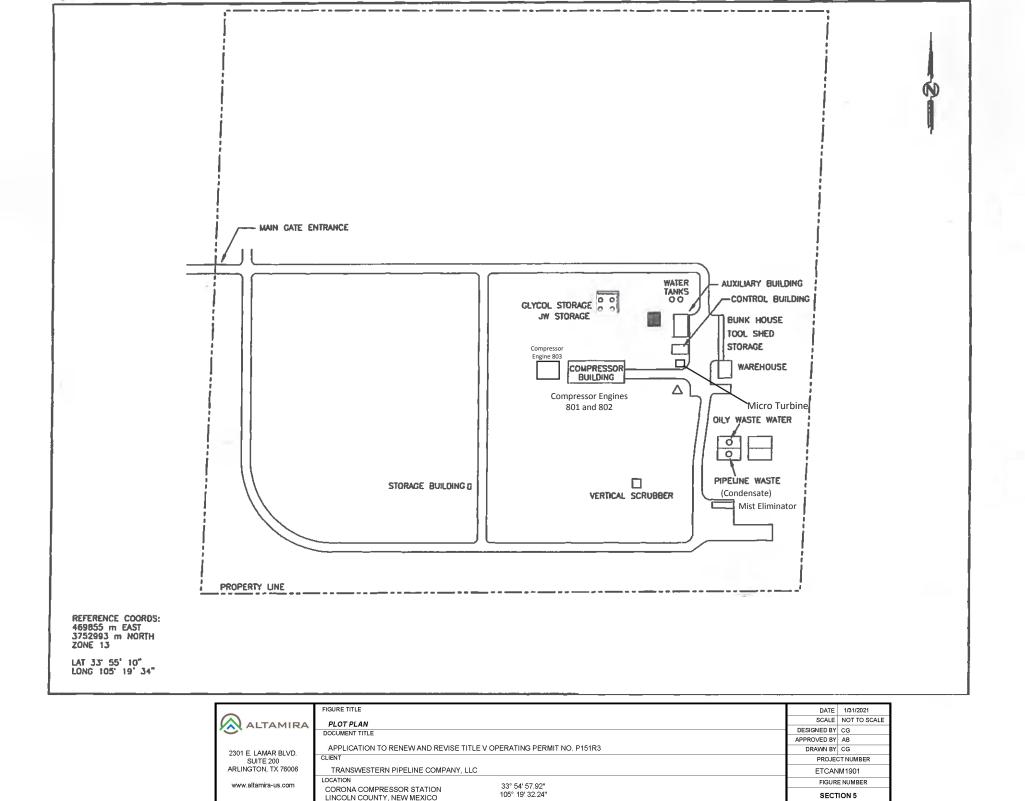


Plot Plan Drawn To Scale

A plot plan drawn to scale showing emissions points, roads, structures, tanks, and fences of property owned, leased, or und	der
direct control of the applicant. This plot plan must clearly designate the restricted area as defined in UA1, Section 1-D.12. T	Γhe
unit numbering system should be consistent throughout this application.	

See attached.

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All Calculations

Show all calculations used to determine both the hourly and annual controlled and uncontrolled emission rates. All calculations shall be performed keeping a minimum of three significant figures. Document the source of each emission factor used (if an emission rate is carried forward and not revised, then a statement to that effect is required). If identical units are being permitted and will be subject to the same operating conditions, submit calculations for only one unit and a note specifying what other units to which the calculations apply. All formulas and calculations used to calculate emissions must be submitted. The "Calculations" tab in the UA2 has been provided to allow calculations to be linked to the emissions tables. Add additional "Calc" tabs as needed. If the UA2 or other spread sheets are used, all calculation spread sheet(s) shall be submitted electronically in Microsoft Excel compatible format so that formulas and input values can be checked. Format all spread sheets and calculations such that the reviewer can follow the logic and verify the input values. Define all variables. If calculation spread sheets are not used, provide the original formulas with defined variables. Additionally, provide subsequent formulas showing the input values for each variable in the formula. All calculations, including those calculations are imbedded in the Calc tab of the UA2 portion of the application, the printed Calc tab(s), should be submitted under this section.

Tank Flashing Calculations: The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., NOI, permit, or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation.

SSM Calculations: It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rational for why the others are reported as zero (or left blank in the SSM/GHG Tables). Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on calculating SSM emissions. If SSM emissions are greater than those reported in the Section 2, Requested Allowables Table, modeling may be required to ensure compliance with the standards whether the application is NSR or Title V. Refer to the Modeling Section of this application for more guidance on modeling requirements.

Glycol Dehydrator Calculations: The information provided to the AQB shall include the manufacturer's maximum design recirculation rate for the glycol pump. If GRI-Glycalc is used, the full input summary report shall be included as well as a copy of the gas analysis that was used.

Road Calculations: Calculate fugitive particulate emissions and enter haul road fugitives in Tables 2-A, 2-D and 2-E for:

- 1. If you transport raw material, process material and/or product into or out of or within the facility and have PER emissions greater than 0.5 tpy.
- 2. If you transport raw material, process material and/or product into or out of the facility more frequently than one round trip per day.

Significant Figures:

A. All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.

- **B.** At least 5 significant figures shall be retained in all intermediate calculations.
- C. In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:
 - (1) If the first digit to be discarded is less than the number 5, the last digit retained shall not be changed;
 - (2) If the first digit discarded is greater than the number 5, or if it is the number 5 followed by at least one digit other than the number zero, the last figure retained shall be increased by one unit; and
 - (3) If the first digit discarded is exactly the number 5, followed only by zeros, the last digit retained shall be rounded upward if it is an odd number, but no adjustment shall be made if it is an even number.
 - (4) The final result of the calculation shall be expressed in the units of the standard.

Control Devices: In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device

regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

See attached.

TRANSWESTERN PIPELINE COMPANY, LLC CORONA COMPRESSOR STATION

POTENTIAL TO EMIT (PTE) SUMMARY

							Proposed En	nission Rates				
			C	0	N	OX	V	oc	SC	02	PM/PM1	.0/PM2.5
UNIT	Stack No.	Description	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)	(lb/hr)	(T/yr)
801	001	Compressor Engine	16.5	72.4	205.5	900.0	9.9	43.5	0.080	0.35	1.81	7.93
802	002	Compressor Engine	16.5	72.4	205.5	900.0	9.9	43.5	0.080	0.35	1.81	7.93
TANKS	N/A	Pipeline Condensate Mist Extractor and Storage Tank					6.59	28.8				
SSMM	N/A	Startup, Shutdown, Maintenance, and Malfunctions					-	10.0				
803	006	Compressor Engine	1.90	8.31	3.16	13.86	3.56	15.59	0.077	0.34	0.36	1.58
GEN-1	007	Generator Engine	0.22	0.96	0.083	0.36	0.020	0.088	0.0049	0.021	0.015	0.066
GEN-1	800	Generator Engine	0.22	0.96	0.083	0.36	0.020	0.088	0.0049	0.021	0.015	0.066
GEN-1	009	Generator Engine	0.22	0.96	0.083	0.36	0.020	0.088	0.0049	0.021	0.015	0.066
GEN-1	010	Generator Engine	0.22	0.96	0.083	0.36	0.020	0.088	0.0049	0.021	0.015	0.066
		Permit Total:	35.8	157.0	414.5	1815.3	30.1	141.7	0.3	1.1	4.0	17.7

Emission Sources Exempt under 20.2.72.202.B.5.

			voc
UNIT	Stack No.	Description	(T/yr)
FUG		Piping Component Fugitives	0.057
LOAD		Condensate Truck Loading	0.062

TRANSWESTERN PIPELINE COMPANY, LLC CORONA COMPRESSOR STATION

ENGINE EMISSIONS

		Rated		Total	Fuel		Emi	ssion Facto	ors			Ho	urly Emissi	ons			Anı	nual Emissi	ons	
Unit	Stack	Horsepower	Engine	Annual	Consumption	(g/(hp-hr))		(lb/M	MBtu)			(lb/hr)					(tons/year)		
I.D.	No.	(hp)	Type	Hours	(Btu/hp-hr)	NOx	со	VOC	SO2	PM10	NOx	CO	VOC	SO2	PM10	NOx	CO	VOC	SO2	PM10
801	001	5000	2SLB	8760	7500	18.64	1.0	0.60	0.002136	0.04831	205.5	16.53	9.92	0.0801	1.81	900.0	72.42	43.45	0.35	7.93
802	002	5000	2SLB	8760	7500	18.64	1.0	0.60	0.002136	0.04831	205.5	16.53	9.92	0.0801	1.81	900.0	72.42	43.45	0.35	7.93
803	006	4783	4SLB	8760	7551	0.30	0.18	0.34	0.002136	0.0099871	3.16	1.90	3.56	0.0772	0.36	13.9	8.31	15.59	0.34	1.58
GEN-1	007	268	Turbine	8760	8507	0.14	0.37	0.03	0.002136	0.0066	0.083	0.22	0.020	0.0049	0.015	0.36	0.96	0.088	0.021	0.066
GEN-1	800	268	Turbine	8760	8507	0.14	0.37	0.03	0.002136	0.0066	0.083	0.22	0.020	0.0049	0.015	0.36	0.96	0.088	0.021	0.066
GEN-1	009	268	Turbine	8760	8507	0.14	0.37	0.03	0.002136	0.0066	0.083	0.22	0.020	0.0049	0.015	0.36	0.96	0.088	0.021	0.066
GEN-1	010	268	Turbine	8760	8507	0.14	0.37	0.03	0.002136	0.0066	0.083	0.22	0.020	0.0049	0.015	0.36	0.96	0.088	0.021	0.066
TOTAL											414.5	35.8	23.5	0.26	4.04	1.815.3	157.0	1028	1 13	17.7

Unit 803 VOC factor includes a 25% safety factor

HAP Emission Factors (lb/MMBtu) (803 CH2O factor is g/hp-hr)

Pollutant	2SLB	Turbine	803
Acetaldehyde	0.00776	0.00004	0.00836
Acrolein	0.00778	0.0000064	0.00514
Benzene	0.00194	0.000012	0.00044
Formaldehyde	0.0552	0.0007	0.0300
Methanol	0.00248	-	0.0025

GHG Emis	sion Factors
ollutant	kg/MMBtu
CO ₂	53.06
CH₄	0.0010
N ₂ O	0.0001

4SLB

Unit	Stack			Aı	nnual HAP Er	nissions (TPY)		
I.D.	No.	MMBtu/hr	Acetaldehyde	Acrolein	Benzene	Formaldehyde	Methanol	Total HAP
801	001	37.50	1.27	1.28	0.32	9.07	0.41	12.35
802	002	37.50	1.27	1.28	0.32	9.07	0.41	12.35
803	006	36.12	1.23	1.23	0.31	1.39	0.39	4.54
GEN-1	007	2.28	0.00040	0.000064	0.00012	0.0071	-	0.0077
GEN-1	800	2.28	0.00040	0.000064	0.00012	0.0071	-	0.0077
GEN-1	009	2.28	0.00040	0.000064	0.00012	0.0071	-	0.0077
GEN-1	010	2.28	0.00040	0.000064	0.00012	0.0071	-	0.0077
			•			•		
Total			3.78	3 79	0.94	19 55	1 21	29 26

Unit	Stack			Sho	t-Term HAP	Emissions (lb/h	r)	
I.D.	No.	MMBtu/hr	Acetaldehyde	Acrolein	Benzene	Formaldehyde	Methanol	Total HAP
801	001	37.50	0.29	0.29	0.07	2.07	0.09	2.82
802	002	37.50	0.29	0.29	0.07	2.07	0.09	2.82
803	006	36.12	0.28	0.28	0.07	0.32	0.09	1.04
GEN-1	007	2.28	0.000091	0.000015	0.000027	0.0016	-	0.0018
GEN-1	008	2.28	0.000091	0.000015	0.000027	0.0016	-	0.0018
GEN-1	009	2.28	0.000091	0.000015	0.000027	0.0016	-	0.0018
GEN-1	010	2.28	0.000091	0.000015	0.000027	0.0016	-	0.0018
Total			0.86	0.86	0.22	4.46	0.28	6.68

Unit	Stack		Annual GHG Emissions (TPY)								
I.D.	No.	MMBtu/hr	CO ₂	CH₄	N ₂ O	CO₂e					
801	001	37.50	19,213	0.362	0.036	19,233					
802	002	37.50	19,213	0.362	0.036	19,233					
803	006	36.12	18,504	0.349	0.035	18,523					
GEN-1	007	2.28	1,168	0.022	0.002	1,169					
GEN-1	008	2.28	1,168	0.022	0.002	1,169					
GEN-1	009	2.28	1,168	0.022	0.002	1,169					
GEN-1	010	2.28	1,168	0.022	0.002	1,169					
-											

- Total 61,603 1.161 0.116 81,605.

 (1) Engines 801 and 802 are two-stroke, lean-burn (2SLB) Cooper-Besserier model V-250 engines.

 (2) Engine emission factors (in lib/hr) for NOx, CO, and VOC for engines 801 and 802 are from the current permitted limits in Operating Permit No. P151-R3. (3) Engine 3 is a four-stroke lean-burn (4SLB) Caterpillar G3616 engine. Emission factors are from Caterpillar and Miratech spec sheets. A 25% safety factor has been added to the VOC emission factor.
- (4) GEN-1 is a 800 kilowatt (1072 hp) Capstone C800S Microturbine, which consists of four identical 200 kilowatt (268 hp) C200 Microturbine units packaged tgether. Emission factors are from Capstone spec sheet.
- (5) PM emission factors (in Ib/MMBtu) are taken by adding the filterable and condensable PM factors from AP-42, Table 3.2-1 and Table 3.2-2 (July 2000), for 2SLB and 4SLB engines, respectively. Emission factors for generators are determined in a similar manner from
- (6) 100% of Total Outlet particulate matter is assumed to be PM10 and PM2.5.
- (7) The sulfur dioxide (SO2) emission factor (EF) is computed based on the current tariff limit on total sulfur in the fuel of 0.75 grain of total sulfur per 100 standard cubic feet (scf) of fuel, as computed below:

Fuel Sulfur Limit = 0.75 grain S / 100 scf of fuel (gr S/100 scf fuel); Fuel Heating Value: 1,002 Btu/scf fuel = 1,002 MMBtu/MMscf fuel (from gas analysis) SO₂ EF = Fuel Sulfur Limit * (1 lb S / 7,000 grains S) * (MW of SO 2 / MW of S) * (1 / Fuel Heating Value) * (1,000,000 scf fuel / MMscf fuel)

= 0.00214 lb SO₂/MMBtu

- (8) Hazardous air pollutant emission factors (in Ib/MMBlu) for engines are from AP-42 Table 3.2-1 for the 2SLB engines (Units 801 and 802), from Table 3.2-2 for 4SLB engines (Unit 803), and from Table 3.1-3 for microturbines (Units GEN-1-4).
- (9) GHG emission factors for all engines and microturbines from 40 CFR Part 98 Subpart C.

Estimation of Fuel Consumption

	Stack		Fuel Co	nsumption	(MMscf)
Unit ID	No.	MMBtu/hr	Hourly	Daily	Annual
801	001	37.50	0.037	0.88	322.06
802	002	37.50	0.037	0.88	322.06
803	006	36.12	0.035	0.85	310.18
GEN-1	007	2.28	0.0022	0.054	19.58
GEN-1	800	2.28	0.0022	0.054	19.58
GEN-1	009	2.28	0.0022	0.054	19.58
GEN-1	010	2.28	0.0022	0.054	19.58
Total	Total	120.24	0.12	2.83	1032.61

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TRANSWESTERN PIPELINE COMPANY, LLC CORONA COMPRESSOR STATION

STORAGE TANK EMISSIONS

			Annual	Working	Breathing	Flash	Annual	Avg. Hourly
		Tank Volume	0 1	Losses	Losses	Emissions	Emissions	Emissions
Unit ID	Contents	(gal)	(gal/yr)	(lbs/yr)	(lbs/yr)	(tpy)	(tpy)	(lbs/hr)
MIST	Pipeline Liquids	1,100	35,000	180	240	27.80	28.01	6.39
TANK	Pipeline Liquids	21,000	35,000	180	1491	-	0.84	0.19
TANK TOTAL:							28.84	6.59

Notes:

- (1) Working and standing losses from condensate tanks estimated using Tanks 4.0.
- (2) Flash emissions from condensate tanks estimated using Vasquez-Beggs Solution Gas/Oil Ratio Correlation Method.
- (3) The mist extractor tank and condensate storage tank are in series. All condensate flows to the mist extractor tank. Occasionally, liquid from the mist extractor tank is pumped to the condensate storage tank. Generally, it is hauled away by truck from the mist extractor tank.

TRANSWESTERN PIPELINE COMPANY, LLC CORONA COMPRESSOR STATION

VOLATILE ORGANIC COMPOUND EMISSION CALCULATION FOR FLASHING (MIST EXTRACTOR)

Vasquez - Beggs Solution Gas/Oil Ratio Correlation Method

(For Estimating VOC Flashing Emissions, Using Stock Tank Gas-Oil Ratios For Crude Oil Facilities)

INPUTS:

Stock Tank API Gravity	50.00	API
Separator Pressure (psig)	1008.00	P
Separator Temperature (°F)	70.00	Ti
Separator Gas Gravity at Initail Condition	1.18	SGi
Stock Tank Barrels of Oil per day (BOPD)	2.28	Q
Stock Tank Gas Molecular Weight	44.00	MW
Fraction VOC (C3+) of Stock Tank Gas	0.65	VOC
Atmospheric Pressure (psia)	12.00	Patm

CONSTRAINTS:

001101111				
16.00	>API>	58.00	°API	ok
50.00	>P+Patm>	5250.00	(psia)	ok
70.00	> Ti >	295.00	(°F)	ok
0.56	>SGi>	1.18	MW/28.97	ok
None	>Q >	None	(BOPD)	ok
18.00	>MW>	125.00	(lb/lb-mole)	ok
0.50	>Voc>	1.00	Fraction	ok
20.00	> Rs >	2070.00	(scf/STB)	ok

SGx = Dissolved gas gravity at 100 psig = SGi [1.0+0.00005912*API*Ti*Log(Pi/114.7)]

SGx =	1.41

$Rs = (C1 * SGx * Pi^C2) exp((C3 * API) / (Ti + 460))$

Where:

Rs	Gas/Oil Ratio of liquid at pressure of interest
SGx	Dissolved gas gravity at 100 psig
Pi	Pressure of initial condition (psia)
API	API Gravity of liquid hydrocarbon at final condition
Ti	Temperature of initial condition (F)

Constants

	°API Gravity		
$^{\circ}\text{APTI} \rightarrow$	< 30	>= 30	Given °API
C1	0.04	0.02	0.04
C2	1.09	1.19	1.09
C3	25.72	23.93	25.72

Rs =	898.07 scf/bbl	for P + Patm =	1020.00

THC = Rs * Q * MW * 1/385 scf/lb-mole * 365 D/Yr * 1 ton/2000 lb.s

THC	Total Hydrocarbon (tons/year)
Rs	Solution Gas/Oil Ratio (scf/STB)
Q	Oil Production Rate (bbl/day)
MW	Molecular Weight of Stock Tank Gas (lb/lb-mole)
385.00	Volume of 1 lb-mole of gas at 14.7 psia and 68 F (WAQS&R Std Cond)

THC = 42.8 TPY	42.8 TPY	8 TPY

VOC = THC * Frac. of C3+ in the Stock Tank Vapor

VOC =	27.8	TPY	from "FLASHING"	of oil from separator to tank press
-------	------	-----	-----------------	-------------------------------------

TRUCK LOADING EMISSIONS

			P @ Tavg	P _{MAX} @ Tmax M ^b		Loading Loss	Loading Loss	Throughput		Uncontrolled VOC Emissions	
UNIT ID	Material Loaded	Sa	(psia)	(psia)		(lb/Mgal)	(lb/Mgal)	(Mgal/hr)	(Mgals/yr)	(lb/hr)	(T/yr)
LOAD	Condensate	0.60	3.14	3.66	69	3.10	3.55	7.0	35	21.67	0.062

a S factor from AP-42 Table 5.2-1 for submerged loading in dedicated service trucks.

Sample Calculations:

Loading Loss (lb/Mgal) = 12.46 * S * P * M / T (AP-42 Section 5.2) * 0.01 (produced water factor) Maximum Loading Loss = 12.46 * 0.60 * 3.66 * 69 / (460 + 71) = 3.551 lb/Mgal

Hourly VOC Emissions = (Hourly Throughput, Mgal/hr) * (Maximum Loading Loss, lb/Mgal) Hourly VOC Emissions = (7.00 Mgal/hr) * (3.551 lb/Mgal) = 21.67 lb/hr

b Average and maximum vapor pressures and molecular weight from Tanks 4.09 calculations.

PIPING COMPONENT FUGITIVE EMISSIONS

FUG-005

		EPA			EMISS	SIONS
COMPONENT COUNT		Oil and Gas Factors HOURS (lb/hr/comp)		PERCENT VOC *1	ANNUAL (lb/yr)	ANNUAL (ton/yr)
VALVES:						
GAS/VAPOR	382	0.00992	8760	0.3%	83.10	0.04
LIGHT OIL	0	0.006	8760	100.0%	0.00	0.00
FLANGES:						
GAS/VAPOR	1604	0.00086	8760	0.3%	30.25	0.02
LIGHT OIL	0	0.000243	8760	100.0%	0.00	0.00
PUMPS:	0	0.029	8760	100.0%	0.00	0.00
COMPRESSORS:						
001	1	0.0194	8760	0.3%	0.43	0.00
002	1	0.0194	8760	0.3%	0.43	0.00
006	1	0.0194	8760	0.3%	0.43	0.00
RELIEF VALVES	0	0.0194	8760	0.3%	0.00	0.00
				TOTAL VOC	114.62	0.057

Notes:

⁽¹⁾ VOC Emissions do not include methane or ethane. Percent VOC for gas service from gas analysis; for liquid service assumed 100% VOC.

⁽²⁾ Component count estimated.

⁽³⁾ Emission factors from EPA 453/R-95-017.

Gas Analysis

SPECIES	MOL %	MW	MOL % X MW	WT%	ppmv
			X (100/Total Mol%)		(Ci)
NITROGEN	0.156	28.01	4.36	0.26	1,557
CO_2	1.793	44.01	78.89	4.73	17,925
METHANE	97.264	16.04	1560.41	93.49	972,643
ETHANE	0.704	30.07	21.17	1.27	7,040
PROPANE	0.063	44.09	2.79	0.17	633
N-BUTANE	0.000	58.12	0.00	0.00	0
ISO-BUTANE	0.010	58.12	0.60	0.04	104
ISO-PENTANE	0.004	72.14	0.26	0.02	36
PENTANE	0.001	72.14	0.08	0.00	11
H_2S	0.000	34.08	0.00	0.00	0
HEXANES+	0.005	86.17	0.45	0.03	52
TOTALS	100.00		1669.01	100.00	1,000,000

nm-VOC wt%= 0.25% methane wt% = 93.49% 1.27% ethane wt% = H_2S (gr/100 scf) = 0.00 mol weight fuel = 16.69 lb/lb-mol mol weight nm-VOC = 0.04 lb/lb-mol Btu/scf (from analysis) Heat Content = 1,002

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC) applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide (CO₂), nitrous oxide (N₂O), methane (CH₄), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆).

Calculating GHG Emissions:

- 1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO₂e emissions from your facility.
- 2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO₂e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
- 3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
- **4.** Report GHG mass and GHG CO₂e emissions in Table 2-P of this application. Emissions are reported in **short** tons per year and represent each emission unit's Potential to Emit (PTE).
- **5.** All Title V major sources, PSD major sources, and all power plants, whether major or not, must calculate and report GHG mass and CO2e emissions for each unit in Table 2-P.
- **6.** For minor source facilities that are not power plants, are not Title V, and are not PSD there are three options for reporting GHGs in Table 2-P: 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHGs as a second separate unit; 3) or check the following By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

Sources for Calculating GHG Emissions:

- Manufacturer's Data
- AP-42 Compilation of Air Pollutant Emission Factors at http://www.epa.gov/ttn/chief/ap42/index.html
- EPA's Internet emission factor database WebFIRE at http://cfpub.epa.gov/webfire/
- 40 CFR 98 <u>Mandatory Green House Gas Reporting</u> except that tons should be reported in short tons rather than in metric tons for the purpose of PSD applicability.
- API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry. August 2009 or most recent version.
- Sources listed on EPA's NSR Resources for Estimating GHG Emissions at http://www.epa.gov/nsr/clean-air-act-permitting-greenhouse-gases:

Global Warming Potentials (GWP):

Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of CO₂ over a specified time period.

"Greenhouse gas" for the purpose of air permit regulations is defined as the aggregate group of the following six gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. (20.2.70.7 NMAC, 20.2.74.7 NMAC). You may also find GHGs defined in 40 CFR 86.1818-12(a).

Metric to Short Ton Conversion:

Short tons for GHGs and other regulated pollutants are the standard unit of measure for PSD and title V permitting programs. 40 CFR 98 Mandatory Greenhouse Reporting requires metric tons.

1 metric ton = 1.10231 short tons (per Table A-2 to Subpart A of Part 98 – Units of Measure Conversions)

Unit	Stack		Ann	ual GHG E	missions (TPY)
I.D.	No.	MMBtu/hr	CO ₂	CH₄	N ₂ O	CO ₂ e
801	001	37.50	19,213	0.362	0.036	19,233
802	002	37.50	19,213	0.362	0.036	19,233
803	006	36.12	18,504	0.349	0.035	18,523
GEN-1	007	2.28	1,168	0.022	0.002	1,169
GEN-1	800	2.28	1,168	0.022	0.002	1,169
GEN-1	009	2.28	1,168	0.022	0.002	1,169
GEN-1	010	2.28	1,168	0.022	0.002	1,169
			•			
Total	·		61,603	1.161	0.116	61,667

GHG Emission Factors					
Pollutant	kg/MMBtu				
CO_2	53.06				
CH ₄	0.0010				
N ₂ O	0.0001				

⁽¹⁾ GHG emission factors for all engines and microturbine from 40 CFR Part 98 Subpart C.

Saved Date: 3/19/2021

Section 7

Information Used To Determine Emissions

Information Used to Determine Emissions shall include the following:

- ☑ If manufacturer data are used, include specifications for emissions units <u>and</u> control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.
- ☐ If test data are used, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.
- ☑ If the most current copy of AP-42 is used, reference the section and date located at the bottom of the page. Include a copy of the page containing the emissions factors, and clearly mark the factors used in the calculations.
- ☐ If an older version of AP-42 is used, include a complete copy of the section.
- ☐ If an EPA document or other material is referenced, include a complete copy.
- ▼ Fuel specifications sheet.
- □ If computer models are used to estimate emissions, include an input summary (if available) and a detailed report, and a disk containing the input file(s) used to run the model. For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., permit or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

See attached.

G3616

GAS ENGINE SITE SPECIFIC TECHNICAL DATA



Nat Gas

84.7

905

5790

58.0-70.3

GAS COMPRESSION APPLICATION

ENGINE SPEED (rpm): 1000 RATING STRATEGY: STANDARD COMPRESSION RATIO: 7.6 RATING LEVEL: CONTINUOUS AFTERCOOLER TYPE: SCAC FUEL SYSTEM: GAV WITH AIR FUEL RATIO CONTROL AFTERCOOLER - STAGE 2 INLET (°F): 130 174

AFTERCOOLER - STAGE 1 INLET (°F): SITE CONDITIONS: JACKET WATER OUTLET (°F): 190 FUEL PRESSURE RANGE(psig): (See note 1) ASPIRATION: TΑ COOLING SYSTEM: JW+1AC, OC+2AC FUEL METHANE NUMBER: CONTROL SYSTEM: ADEM4 FUEL LHV (Btu/scf): EXHAUST MANIFOLD: ALTITUDE(ft): DRY

COMBUSTION: LOW EMISSION INLET AIR TEMPERATURE(°F): 100
NOX EMISSION LEVEL (g/bhp-hr NOX): 0.3 STANDARD RATED POWER: 5000 bhp@1000rpm
SET POINT TIMING: 18

SET POINT HMING: 18						
			MAXIMUM	SITE RAT	TING AT M	AXIMUM
			RATING	INLET A	R TEMPE	RATURE
RATING	NOTES	LOAD	100%	100%	75%	52%
ENGINE POWER (WITHOUT FAN	(2)	bhp	5000	4783	3587	2500
INLET AIR TEMPERATURE		°F	59	100	100	100
ENGINE DATA	1					
FUEL CONSUMPTION (LHV)	(3)	Btu/bhp-hr	6778	6807	7006	7410
FUEL CONSUMPTION (HHV)	(3)	Btu/bhp-hr	7519	7551	7771	8219
AIR FLOW (@inlet air temp, 14.7 psia) (WET	(- / (- /	ft3/min	11725	12118	9156	6504
AIR FLOW (WET	(4)(5)	lb/hr	53811	51522	38931	27652
FUEL FLOW (60°F, 14.7 psia)		scfm	624	600	463	341
INLET MANIFOLD PRESSURE	(6)	in Hg(abs)	106.3	101.6	76.3	55.4
EXHAUST TEMPERATURE - ENGINE OUTLET	(7)	°F	830	838	885	943
EXHAUST GAS FLOW (@engine outlet temp, 14.5 psia) (WET	(-/(-/	ft3/min	31160	30027	23539	17472
EXHAUST GAS MASS FLOW (WET	(8)(5)	lb/hr	55523	53166	40200	28588
EMISSIONS DATA - ENGINE OUT						
NOx (as NO2)	(9)(10)	g/bhp-hr	0.30	0.30	0.30	0.30
CO	(9)(10)	g/bhp-hr	2.50	2.50	2.50	2.50
THC (mol. wt. of 15.84)	(9)(10)	g/bhp-hr	4.28	4.35	4.72	4.97
NMHC (mol. wt. of 15.84)	(9)(10)	g/bhp-hr	0.40	0.40	0.44	0.46
NMNEHC (VOCs) (mol. wt. of 15.84)	(9)(10)(11)	g/bhp-hr	0.27	0.27	0.29	0.31
HCHO (Formaldehyde)	(9)(10)	g/bhp-hr	0.14	0.14	0.16	0.19
CO2	(9)(10)	g/bhp-hr	419	421	438	460
EXHAUST OXYGEN	(9)(12)	% DRY	11.2	11.2	10.9	10.6
HEAT REJECTION]					
HEAT REJ. TO JACKET WATER (JW)	(13)	Btu/min	52850	51628	42494	35980
HEAT REJ. TO ATMOSPHERE	(13)	Btu/min	19184	18738	17471	15641
HEAT REJ. TO LUBE OIL (OC)	(13)	Btu/min	30501	30151	27208	24082
HEAT REJ. TO A/C - STAGE 1 (1AC)	(13)(14)	Btu/min	62165	62165	28585	9091
HEAT REJ. TO A/C - STAGE 2 (2AC)	(13)(14)	Btu/min	12581	12581	8195	5228
COOLING SYSTEM SIZING CRITERIA	1					
TOTAL JACKET WATER CIRCUIT (JW+1AC)	(14)(15)	Btu/min	123409			
TOTAL STAGE 2 AFTERCOOLER CIRCUIT (OC+2AC)	(14)(15)	Btu/min	49812			
A cooling system safety factor of 0% has been added to the cooling system sizing criteria.		<u> </u>				

CONDITIONS AND DEFINITIONS

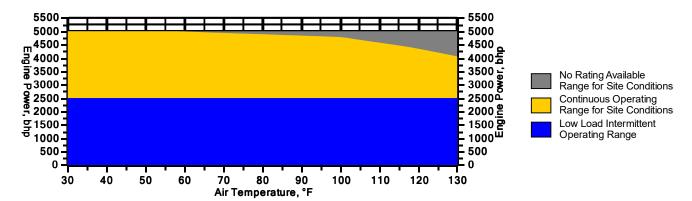
Engine rating obtained and presented in accordance with ISO 3046/1, adjusted for fuel, site altitude and site inlet air temperature. 100% rating at maximum inlet air temperature is the maximum engine capability for the specified fuel at site altitude and maximum site inlet air temperature. Maximum rating is the maximum capability at the specified aftercooler inlet temperature for the specified fuel at site altitude and reduced inlet air temperature. Lowest load point is the lowest continuous duty operating load allowed. No overload permitted at rating shown.

For notes information consult page three.



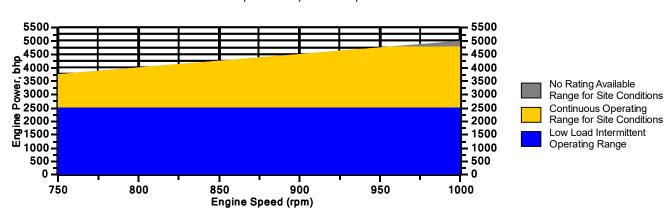
Engine Power vs. Inlet Air Temperature

Data represents temperature sweep at 5790 ft and 1000 rpm



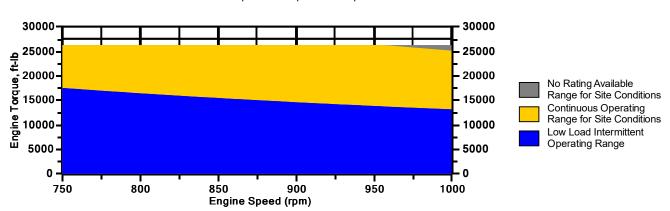
Engine Power vs. Engine Speed

Data represents speed sweep at 5790 ft and 100 °F



Engine Torque vs. Engine Speed

Data represents speed sweep at 5790 ft and 100 °F



Note: At site conditions of 5790 ft and 100°F inlet air temp., constant torque can be maintained down to 750 rpm. The minimum speed for loading at these conditions is 750 rpm.

G3616 GAS COMPRESSION APPLICATION

GAS ENGINE SITE SPECIFIC TECHNICAL DATA



NOTES

- 1. Fuel pressure range specified is to the engine gas shutoff valve (GSOV). Additional fuel train components should be considered in pressure and flow calculations.
- 2. Engine rating is with two engine driven water pumps. Tolerance is ± 3% of full load.
- 3. Fuel consumption tolerance is ± 2.5% of full load data.
- 4. Air flow value is on a 'wet' basis. Flow is a nominal value with a tolerance of ± 5 %.
- 5. Inlet and Exhaust Restrictions must not exceed A&I limits based on full load flow rates from the standard technical data sheet.
- 6. Inlet manifold pressure is a nominal value with a tolerance of \pm 5 %.
- 7. Exhaust temperature is a nominal value with a tolerance of (+)63°F, (-)54°F.
- 8. Exhaust flow value is on a "wet" basis. Flow is a nominal value with a tolerance of ± 6 %.
- 9. Emissions data is at engine exhaust flange prior to any after treatment.
- 10. Values listed are higher than nominal levels to allow for instrumentation, measurement, and engine-to-engine variations. They indicate the maximum values expected under steady state conditions. Fuel methane number cannot vary more than ± 3. THC, NMHC, and NMNEHC do not include aldehydes. An oxidation catalyst may be required to meet Federal, State or local CO or HC requirements.
- 11. VOCs Volatile organic compounds as defined in US EPA 40 CFR 60, subpart JJJJ
- 12. Exhaust Oxygen level is the result of adjusting the engine to operate at the specified NOx level. Tolerance is ± 0.5.
- 13. Heat rejection values are nominal. Tolerances, based on treated water, are ± 10% for jacket water circuit, ± 50% for radiation, ± 20% for lube oil circuit, and ± 5% for aftercooler circuit
- 14. Aftercooler heat rejection includes an aftercooler heat rejection factor for the site elevation and inlet air temperature specified. Aftercooler heat rejection values at part load are for reference only. Do not use part load data for heat exchanger sizing.
- 15. Cooling system sizing criteria are maximum circuit heat rejection for the site, with applied tolerances.

Constituent	Abbrev	Mole %	Norm		
Water Vapor	H2O	0.0000	0.0000		
Methane	CH4	92.2700	92.2700	Fuel Makeup:	Nat Gas
Ethane	C2H6	2.5000	2.5000	Unit of Measure:	English
Propane	C3H8	0.5000	0.5000		•
Isobutane	iso-C4H1O	0.0000	0.0000	Calculated Fuel Properties	
Norbutane	nor-C4H1O	0.2000	0.2000	-	84.7
Isopentane	iso-C5H12	0.0000	0.0000	Caterpillar Methane Number:	04.7
Norpentane	nor-C5H12	0.1000	0.1000		
Hexane	C6H14	0.0500	0.0500	Lower Heating Value (Btu/scf):	905
Heptane	C7H16	0.0000	0.0000	Higher Heating Value (Btu/scf):	1004
Nitrogen	N2	3.4800	3.4800	WOBBE Index (Btu/scf):	1168
Carbon Dioxide	CO2	0.9000	0.9000	, ,	
Hydrogen Sulfide	H2S	0.0000	0.0000	THC: Free Inert Ratio:	21.83
Carbon Monoxide	CO	0.0000	0.0000	Total % Inerts (% N2, CO2, He):	4.38%
Hydrogen	H2	0.0000	0.0000	,	
Oxygen	O2	0.0000	0.0000	RPC (%) (To 905 Btu/scf Fuel):	100%
Helium	HE	0.0000	0.0000		
Neopentane	neo-C5H12	0.0000	0.0000	Compressibility Factor:	0.998
Octane	C8H18	0.0000	0.0000	Stoich A/F Ratio (Vol/Vol):	9.45
Nonane	C9H20	0.0000	0.0000	Stoich A/F Ratio (Mass/Mass):	15.75
Ethylene	C2H4	0.0000	0.0000	Specific Gravity (Relative to Air):	0.600
Propylene	C3H6	0.0000	0.0000	Fuel Specific Heat Ratio (K):	1.313
TOTAL (Volume %)		100.0000	100.0000	i dei opecilic i leat Natio (N).	1.313

CONDITIONS AND DEFINITIONS

Caterpillar Methane Number represents the knock resistance of a gaseous fuel. It should be used with the Caterpillar Fuel Usage Guide for the engine and rating to determine the rating for the fuel specified. A Fuel Usage Guide for each rating is included on page 2 of its standard technical data sheet.

RPC always applies to naturally aspirated (NA) engines, and turbocharged (TA or LE) engines only when they are derated for altitude and ambient site conditions.

Project specific technical data sheets generated by the Caterpillar Gas Engine Rating Pro program take the Caterpillar Methane Number and RPC into account when generating a site rating.

Fuel properties for Btu/scf calculations are at 60F and 14.696 psia.

Caterpillar shall have no liability in law or equity, for damages, consequently or otherwise, arising from use of program and related material or any part thereof.

FUEL LIQUIDS
Field gases, well head gases, and associated gases typically contain liquid water and heavy hydrocarbons entrained in the gas. To prevent detonation and severe damage to the engine, hydrocarbon liquids must not be allowed to enter the engine fuel system. To remove liquids, a liquid separator and coalescing filter are recommended, with an automatic drain and collection tank to prevent contamination of the ground in accordance with local codes and standards.

To avoid water condensation in the engine or fuel lines, limit the relative humidity of water in the fuel to 80% at the minimum fuel operating temperature.



Application & Performance Warranty Data

Project Information

Site Location: US

Project Name: SEC - # 00002408 - ETC- Transwestern Corona - 3616A4

Application: Gas Compression

Number Of Engines: 1

Operating Hours per Year: 8760

Engine Specifications

Engine Manufacturer:

Model Number:

G 3616 A4
Rated Speed:

1000 RPM
Type of Fuel:

Natural Gas

Type of Lube Oil: 0.6 wt% sulfated ash or less Lube Oil Consumption: 0.1 % Fuel Consumption

Number of Exhaust Manifolds: 1

Engine Cycle Data

Load	Speed	Power	Exhaust Flow	Exhaust Temp.	Fuel Cons.	NO _x	со	NMHC	CH ₂ O	O ₂	H ₂ O
%		bhp	acfm (cfm)	F	btu/bhp-hr	g/bhp-hr	g/bhp-hr	g/bhp-hr	g/bhp-hr	%	%
100	Rated	4,783	30,027	838	6,688	0.3	2.5	0.95	0.14	11.2	17

Emission Data (100% Load)

	Raw Engine Emissions						Target Outlet Emissions						
Emission	g/bhp- hr	g/kW-hr	tons/yr	ppmvd @ 15% O ₂	ppmvd	lb/MW- hr	g/bhp- hr	g/kW-hr	tons/yr	ppmvd @ 15% O ₂	ppmvd	lb/MW- hr	Calculated Reduction
NO _x *	0.3	0.402	13.86	26	44	0.89							
СО	2.5	3.353	115.46	363	596	7.39	0.18	0.235	8.08	25	42	0.52	93%
CH ₂ O	0.14	0.188	6.47	19	31	0.41	0.03	0.038	1.29	4	6	0.08	80%

System Specifications

Oxidation System Specifications (SP-RHSIGA-72-TBD)

Design Exhaust Flow Rate: 30,027 acfm (cfm)

Design Exhaust Temperature¹: 838°F

Housing Model Number: SP-RHSIGA-72-TBD

Element Model Number: MECB-OX-SB4000-2421-3600-291

Number of Catalyst Elements: 3
Number of Spare Catalyst Tracks: 1

Maximum Wind Loading: 100 mph

System Pressure Loss: 8.0 inches of WC (Clean) (19.9 mBar)

Sound Attenuation: 30-35 dBA insertion loss

Exhaust Temperature Limits**: 550 – 1250°F (catalyst inlet); 1350°F (catalyst outlet)

288 - 677°C (catalyst inlet); 732°C (catalyst outlet)

 CONFIDENTIAL
 Page 4 of 11
 Proposal Date: 12/12/2019

^{*} MW referenced as NO₂

^{**} General catalyst temperature operating range. Performance is based on the Design Exhaust Temperature.





MIRATECH Scope of Supply & Equipment Details

	Model Number	Quantity
Oxidation Housing & Catalyst	SP-RHSIGA-72-TBD	1 / engine
Catalyst Housing	SP-RHSIGA-72-TBD-HSG	1 / engine
Material	Carbon Steel	
• Paint	Standard High Temperature Black Paint	
Approximate Diameter	72 inches	
Inlet Pipe Size & Connection	30 inch FF Flange, 150# ANSI standard bolt pattern, reinforced and gusseted	
Inlet Location	Side	
• Inlet Height	220 inches	
Outlet Pipe Size & Connection	30 inch FF Flange, 150# ANSI standard bolt pattern	
Outlet Location	Тор	
Overall Stack Height	480 inches	
Instrumentation Ports	2 pre-catalyst / 2 post-catalyst / 1 outlet (2" NPT)	
• Shell	3/8" and 3/16" THK	
Insulation Rings	1/4" THK, spaced less than 10 feet apart	
Base Plate Flange	1" THK plate, bolted directly to foundation	
• Guy Wires	Not required for base mounted units	
Oxidation Catalyst	MECB-OX-SB4000-2421-3600-291	3 / engine
Blind Catalyst	MEC-BK-XX-2421-4000-291	1 / engine
Nut, Bolt, and Gasket Set	NBG-S3624-4	1 / engine
Top Stack	SP-RXSIGA-TOP_STACK-30	1 / engine
Top Stack NBG	NBG-RXSIGA-TOP_STACK-30	1 / engine

Optional Content MIRATECH Scope of Supply & Equipment Details

	Model Number	Quantity
Flange Nut, Bolt, and Full Face Gasket Set	BNFFG-30	2 / engine
Dual Ply Bellow	BL230X-30PF1-30PF2-120-2	1 / engine
Explosion Relief Cover	ERP-20	1 / engine

Customer Scope Of Supply

- Foundation
- Top Outlet Stack
- Top Outlet Stack Bolts, Nuts, & Gasket
- Expansion Joints
- Exhaust Piping
- Inlet Pipe Bolts, Nuts, & Gasket

C800S Power Package

High-pressure Natural Gas



The Signature Series Microturbine provides 800kW of reliable electrical power in one small, ultra-low emission, and highly efficient package.

- Ultra-low emissions
- One moving part minimal maintenance and downtime
- Patented air bearings no lubricating oil or coolant
- Integrated utility synchronization no external switchgear
- Compact modular design allows for easy, low-cost installation
- High electrical efficiency over a very wide operating range
- High availability part load redundancy
- Remote monitoring and diagnostic capabilities
- Proven technology with tens of millions of operating hours
- Various Factory Protection Plans available



C800S Power Package

Electrical Performance(1)

Electrical Power Output	800kW
Voltage	400/480 VAC
Electrical Service	3-Phase, 4 Wire Wye
Frequency	50/60 Hz
Electrical Efficiency LHV	33%

Fuel/Engine Characteristics⁽¹⁾

Natural Gas HHV	30.7–47.5 MJ/m³ (825–1,275 BTU/scf)
Inlet Pressure	517–551 kPa gauge (75–80 psig)
Fuel Flow HHV	9,600 MJ/hr (9,120,000 BTU/hr)
Net Heat Rate LHV	10.9 MJ/kWh (10,300 BTU/kWh)

Exhaust Characteristics(1)

NOx Emissions @ 15% O ₂	< 9 ppmvd (18 mg/m³)
Exhaust Mass Flow	5.3 kg/s (11.7 lbm/s)
Exhaust Gas Temperature	280°C (535°F)

Dimensions & Weight⁽²⁾

Width x Depth x Height ⁽³⁾	3.0 x 7.5 x 2.9 m (117 x 295 x 114 in)
Weight - Grid Connect Model	14,100 kg (31,100 lbs)
Weight - Dual Mode Model	16,900 kg (37,300 lbs)

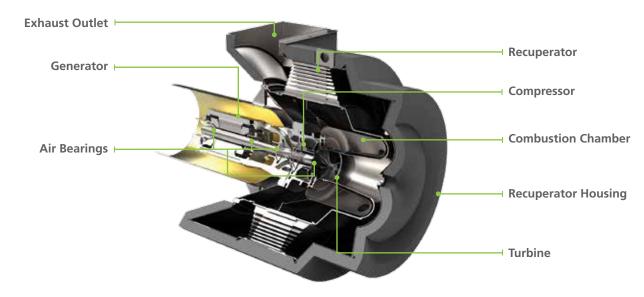
Minimum Clearance Requirements(4)

Horizontal Clearance		
Left	1.5 m (60 in)	
Right	0.0 m (0 in)	
Front	1.7 m (65 in)	
Rear	2.0 m (80 in)	

Certifications

- UL 2200 Listed
- CE Certified
- Certified to the following grid interconnection standards: UL 1741, VDE, BDEW and CEI 0-16
- Compliant to California Rule 21

C200 Engine Components





⁽²⁾ Approximate dimensions and weights



⁽³⁾ Height dimensions are to the roofline. Exhaust outlet extends at least 127 mm (5 in) above the roofline

⁽⁴⁾ Clearance requirements may increase due to local code considerations Specifications are not warranted and are subject to change without notice.



Technical Reference

Capstone MicroTurbineTM Systems Emissions

Summary

Capstone MicroTurbine™ systems are inherently clean and can meet some of the strictest emissions standards in the world. This technical reference is to provide customers with information that may be requested by local air permitting organizations or to compare air quality impacts of different technologies for a specific project. The preferred units of measure are "output based"; meaning that the quantity of a particular exhaust emission is reported relative to the useable output of the microturbine – typically in pounds per megawatt hour for electrical generating equipment. This technical reference also provides volumetric measurements in parts per million and milligrams per normal cubic meter. A conversion between several common units is also provided.

Maximum Exhaust Emissions at ISO Conditions

Table 1 below summarizes the exhaust emissions at full power and ISO conditions for different Capstone microturbine models. Note that the fuel can have a significant impact on certain emissions. For example landfill and digester gas can be made up of a wide variety of fuel elements and impurities, and typically contains some percentage of carbon dioxide (CO₂). This CO₂ dilutes the fuel, makes complete combustion more difficult, and results in higher carbon monoxide emissions (CO) than for pipeline-quality natural gas.

Table 1. Emission for Different Capstone Microturbine Models in [lb/MWhe]

Model	Fuel	NOx	СО	VOC (5)
C30 NG	Natural Gas (1)	0.64	1.8	0.23
CR30 MBTU	Landfill Gas (2)	0.64	22.0	1.00
CR30 MBTU	Digester Gas (3)	0.64	11.0	1.00
C30 Liquid	Diesel #2 (4)	2.60	0.41	0.23
C65 NG Standard	Natural Gas (1)	0.46	1.25	0.10
C65 NG Low NOx	Natural Gas (1)	0.17	1.30	0.10
C65 NG CARB	Natural Gas (1)	0.17	0.24	0.05
CR65 Landfill	Landfill Gas (2)	0.46	4.0	0.10
CR65 Digester	Digester Gas (3)	0.46	4.0	0.10
C200 NG	Natural Gas (1)	0.40	1.10	0.10
C200 NG CARB	Natural Gas (1)	0.14	0.20	0.04
CR200 Digester	Digester Gas (3)	0.40	3.6	0.10

Notes:

- (1) Emissions for standard natural gas at 1,000 BTU/scf (HHV) or 39.4 MJ/m3 (HHV)
- (2) Emissions for surrogate gas containing 42% natural gas, 39% CO2, and 19% Nitrogen
- (3) Emissions for surrogate gas containing 63% natural gas and 37% CO2
- (4) Emissions for Diesel #2 according to ASTM D975-07b
- (5) Expressed as Methane

Capstone Turbine Corporation • 21211 Nordhoff Street • Chatsworth • CA 91311 • USA Technical Reference: Microturbine System Emissions

Table 2 provides the same output-based information shown in Table 1, but expressed in grams per horsepower hour (g/hp-hr).

Table 2. Emission for Different Capstone Microturbine Models in [g/hp-hr]

Model	Fuel	NOx	СО	VOC (5)
C30 NG	Natural Gas (1)	0.22	0.60	0.078
CR30 MBTU	Landfill Gas (2)	0.22	7.4	0.340
CR30 MBTU	Digester Gas (3)	0.22	3.7	0.340
C30 Liquid	Diesel #2 (4)	0.90	0.14	0.078
C65 NG Standard	Natural Gas (1)	0.16	0.42	0.034
C65 NG Low NOx	Natural Gas (1)	0.06	0.44	0.034
C65 NG CARB	Natural Gas (1)	0.06	0.08	0.017
CR65 Landfill	Landfill Gas (2)	0.16	1.4	0.034
CR65 Digester	Digester Gas (3)	0.16	1.4	0.034
C200 NG	Natural Gas (1)	0.14	0.37	0.034
C200 NG CARB	Natural Gas (1)	0.05	0.07	0.014
CR200 Digester	Digester Gas (3)	0.14	1.3	0.034

Notes: - same as for Table 1

Emissions may also be reported on a volumetric basis, with the most common unit of measurement being parts per million. This is typically a measurement that is corrected to specific oxygen content in the exhaust and without considering moisture content. The abbreviation for this unit of measurement is "ppmvd" (parts per million by volume, dry) and is corrected to 15% oxygen for electrical generating equipment such as microturbines. The relationship between an output based measurement like pounds per MWh and a volumetric measurement like ppmvd depends on the characteristics of the generating equipment and the molecular weight of the criteria pollutant being measured. Table 3 expresses the emissions in ppmvd at 15% oxygen for the Capstone microturbine models shown in Table 1. Note that raw measurements expressed in ppmv will typically be lower than the corrected values shown in Table 3 because the microturbine exhaust has greater than 15% oxygen.

Another volumetric unit of measurement expresses the mass of a specific criteria pollutant per standard unit of volume. Table 4 expresses the emissions in milligrams per normal cubic meter at 15% oxygen. Normal conditions for this purpose are expresses as one atmosphere of pressure and zero degrees Celsius. Note that both the ppmvd and mg/m3 measurements are for specific oxygen content. A conversion can be made to adjust either unit of measurement to other reference oxygen contents, if required. Use the equation below to convert from one reference oxygen content to another:

Emissions at New O₂ =
$$\frac{(20.9 - \text{New O2 Percent})}{(20.9 - \text{Current O2 Percent})} \text{ X Emissions at Current O2}$$

For example, to express 9 ppmvd of NOx at 15% oxygen to ppmvd at 3% oxygen:

Emissions at 3% O2 =
$$\frac{(20.9 - 3.0)}{(20.9 - 15.0)}$$
 X 9 = 27 ppmvd

Table 3. Emission for Different Capstone Microturbine Models in [ppmvd] at 15% O2

Model	Fuel	NOx	СО	voc
C30 NG	Natural Gas (1)	9	40	9
CR30 MBTU	Landfill Gas (2)	9	500	40
CR30 MBTU	Digester Gas (3)	9	250	40
C30 Liquid	Diesel #2 (4)	35	9	9
C65 NG Standard	Natural Gas (1)	9	40	7
C65 NG Low NOx	Natural Gas (1)	4	40	7
C65 NG CARB	Natural Gas (1)	4	8	3
CR65 Landfill	Landfill Gas (2)	9	130	7
CR65 Digester	Digester Gas (3)	9	130	7
C200 NG	Natural Gas (1)	9	40	7
C200 NG CARB	Natural Gas (1)	4	8	3
CR200 Digester	Digester Gas (3)	9	130	7

Notes: same as Table 1

Table 4. Emission for Different Capstone Microturbine Models in [mg/m3] at 15% O2

Model	Fuel	NOx	СО	VOC (5)
C30 NG	Natural Gas (1)	18	50	6
CR30 MBTU	Landfill Gas (2)	18	620	30
CR30 MBTU	Digester Gas (3)	18	310	30
C30 Liquid	Diesel #2 (4)	72	11	6
C65 NG Standard	Natural Gas (1)	19	50	5
C65 NG Low NOx	Natural Gas (1)	8	50	5
C65 NG CARB	Natural Gas (1)	8	9	2
CR65 Landfill	Landfill Gas (2)	18	160	5
CR65 Digester	Digester Gas (3)	18	160	5
C200 NG	Natural Gas (1)	18	50	5
C200 NG CARB	Natural Gas (1)	8	9	2
CR200 Digester	Digester Gas (3)	18	160	5

Notes: same as Table 1

The emissions stated in Tables 1, 2, 3 and 4 are guaranteed by Capstone for new microturbines during the standard warranty period. They are also the expected emissions for a properly maintained microturbine according to manufacturer's published maintenance schedule for the useful life of the equipment.

Emissions at Full Power but Not at ISO Conditions

The maximum emissions in Tables 1, 2, 3 and 4 are at full power under ISO conditions. These levels are also the expected values at full power operation over the published allowable ambient temperature and elevation ranges.

Emissions at Part Power

Capstone microturbines are designed to maintain combustion stability and low emissions over a wide operating range. Capstone microturbines utilize multiple fuel injectors, which are switched on or off depending on the power output of the turbine. All injectors are typically on when maximum power is demanded, regardless of the ambient temperature or elevation. As the load requirements of the microturbine are decreased, injectors will be switched off to maintain stability and low emissions. However, the emissions relative to the lower power output may increase. This effect differs for each microturbine model.

Emissions Calculations for Permitting

Air Permitting agencies are normally concerned with the maximum amount of a given pollutant being emitted per unit of time (for example pounds per day of NOx). The simplest way to make this calculation is to use the maximum microturbine full electrical power output (expressed in MW) multiplied by the emissions rate in pounds per MWhe times the number of hours per day. For example, the C65 CARB microturbine operating on natural gas would have a NOx emissions rate of:

NOx = .17 X (65/1000) X 24 = .27 pounds per day

This would be representative of operating the equipment full time, 24 hours per day, at full power output of 65 kWe.

As a general rule, if local permitting is required, use the published agency levels as the stated emissions for the permit and make sure that this permitted level is above the calculated values in this technical reference.

Consideration of Useful Thermal Output

Capstone microturbines are often deployed where their clean exhaust can be used to provide heating or cooling, either directly or using hot water or other heat transfer fluids. In this case, the local permitting or standards agencies will usually consider the emissions from traditional heating sources as being displaced by the useful thermal output of the microturbine exhaust energy. This increases the useful output of the microturbine, and decreases the relative emissions of the combined heat and power system. For example, the CARB version C65 ICHP system with integral heat recovery can achieve a total system efficiency of 70% or more, depending on inlet water temperatures and other installation-specific characteristics. The electric efficiency of the CARB version C65 microturbine is 28% at ISO conditions. This means that the total NOx output based emissions, including the captured thermal value, is the electric-only emissions times the ratio of electric efficiency divided by total system efficiency:

 $NOx = .17 \times 28/70 = .068$ pounds per MWh (based on total system output)

This is typically much less than the emissions that would result from providing electric power using traditional central power plants, plus the emissions from a local hot water heater or boiler. In fact microturbine emissions are so low compared with traditional hot water heaters that installing a Capstone microturbine with heat recovery can actually decrease the local emissions of NOx and other criteria pollutants, without even considering the elimination of emissions from a remote power plant.

Greenhouse Gas Emissions

Many gasses are considered "greenhouse gasses", and agencies have ranked them based on their global warming potential (GWP) in the atmosphere compared with carbon dioxide (CO₂), as well as their ability to maintain this effect over time. For example, methane is a greenhouse gas with a GWP of 21. Criteria pollutants like NOx and organic compounds like methane are monitored by local air permitting authorities, and are subject to strong emissions controls. Even though some of these criteria pollutants can be more troublesome for global warming than CO₂, they are released in small quantities – especially from Capstone microturbines. So the major contributor of concern is carbon dioxide, or CO₂. Emission of CO₂ depends on two things:

- 1. Carbon content in the fuel
- 2. Efficiency of converting fuel to useful energy

It is for these reasons that many local authorities are focused on using clean fuels (for example natural gas compared with diesel fuel), achieving high efficiency using combined heat and power systems, and displacing emissions from traditional power plants using renewable fuels like waste landfill and digester gasses.

Table 5 shows the typical CO₂ emissions due to combustion for different Capstone microturbine models at full power and ISO conditions. The values do not include CO₂ that may already exist in the fuel itself, which is typical for renewable fuels like landfill and digester gas. These values are expressed on an output basis, as is done for criteria pollutants in Table 1. The table shows the pounds per megawatt hour based on electric power output only, as well as considering total useful output in a CHP system with total 70% efficiency (LHV). As for criteria pollutants, the relative quantity of CO₂ released is substantially less when useful thermal output is also considered in the measurement.

Table 5. CO₂ Emission for Capstone Microturbine Models in [lb/MWh]

Model	Fuel	CO ₂	
		Electric Only	70% Total CHP
C30 NG	Natural Gas (1)	1,690	625
CR30 MBTU	Landfill Gas (1)	1,690	625
CR30 MBTU	Digester Gas (1)	1,690	625
C30 Liquid	Diesel #2 (2)	2,400	855
C65 NG Standard	Natural Gas (1)	1,520	625
C65 NG Low NOx	Natural Gas (1)	1,570	625
C65 NG CARB	Natural Gas (1)	1,570	625
CR65 Landfill	Landfill Gas (1)	1,520	625
CR65 Digester	Digester Gas (1)	1,520	625
C200 NG	Natural Gas (1)	1,330	625
C200 NG CARB	Natural Gas (1)	1,330	625
CR200 Digester	Digester Gas (1)	1,330	625

Notes:

- (1) Emissions due to combustion, assuming natural gas with CO₂ content of 117 lb/MMBTU (HHV)
- (2) Emissions due to combustion, assuming diesel fuel with CO₂ content of 160 lb/MMBTU (HHV)

Useful Conversions

The conversions shown in Table 6 can be used to obtain other units of emissions outputs. These are approximate conversions.

Table 6. Useful Unit Conversions

From	Multiply By	To Get
lb/MWh	0.338	g/bhp-hr
g/bhp-hr	2.96	lb/MWh
lb	0.454	kg
kg	2.20	lb
kg	1,000	g
hp (electric)	.746	kW
kW	1.34	hp (electric)
MW	1,000	kW
kW	0.001	MW

Definitions

- ISO conditions are defined as: 15 °C (59 °F), 60% relative humidity, and sea level pressure of 101.3 kPa (14.696 psia).
- HHV: Higher Heating Value
- LHV: Lower Heating Value
- kW_{th}: Kilowatt (thermal)
- kW_e: Kilowatt (electric)
- MWh: Megawatt-hour
- hp-hr: horsepower-hour (sometimes referred to as "electric horsepower-hour")
- Scf: Standard cubic foot (standard references ISO temperature and pressure)
- m3: Normal cubic meter (normal references 0 °C and one atmosphere pressure)

Capstone Contact Information

If questions arise regarding this technical reference, please contact Capstone Turbine Corporation for assistance and information:

Capstone Applications

Toll Free Telephone: (866) 4-CAPSTONE or (866) 422-7786

Fax: (818) 734-5385

E-mail: applications@capstoneturbine.com

Saved Date: 3/19/2021

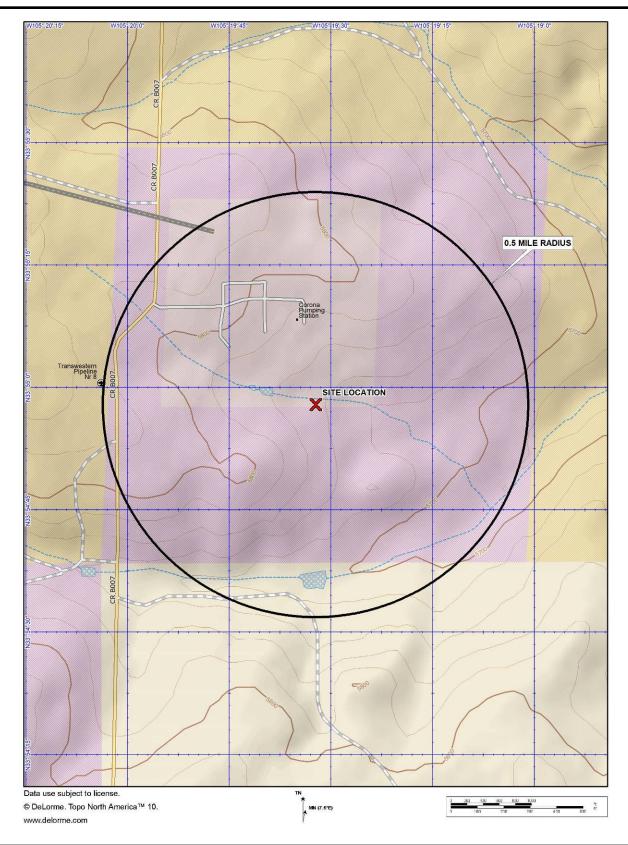
Section 8

Map(s)

 $\underline{\mathbf{A}\ \mathbf{map}}$ such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

The UTM or Longitudinal coordinate system on both axes	An indicator showing which direction is north
A minimum radius around the plant of 0.8km (0.5 miles)	Access and haul roads
Topographic features of the area	Facility property boundaries
The name of the map	The area which will be restricted to public access
A graphical scale	

See attached.





Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC) (This proof is required by: 20.2.72.203.A.14 NMAC "Documentary Proof of applicant's public notice")

		I have read the AQB "Guidelines for Public Notification for Air Quality Permit Applications" This document provides detailed instructions about public notice requirements for various permitting actions. It also provides public notice examples and certification forms. Material mistakes in the public notice will require a re-notice before issuance of the permit.
	Noti	ess otherwise allowed elsewhere in this document, the following items document proof of the applicant's Public fication. Please include this page in your proof of public notice submittal with checkmarks indicating which aments are being submitted with the application.
	Ne	w Permit and Significant Permit Revision public notices must include all items in this list.
	Te	chnical Revision public notices require only items 1, 5, 9, and 10.
	Per 1	he Guidelines for Public Notification document mentioned above, include:
1.		A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
2.		A list of the places where the public notice has been posted in at least four publicly accessible and conspicuous places, including the proposed or existing facility entrance. (e.g. post office, library, grocery, etc.)
3.		A copy of the property tax record (20.2.72.203.B NMAC).
4.		A sample of the letters sent to the owners of record.
5.		A sample of the letters sent to counties, municipalities, and Indian tribes.
6.		A sample of the public notice posted and a verification of the local postings.
7.		A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
8.		A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
9.		A copy of the <u>classified or legal</u> ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
10.		A copy of the <u>display</u> ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
11.		A map with a graphic scale showing the facility boundary and the surrounding area in which owners of record were notified by mail. This is necessary for verification that the correct facility boundary was used in determining distance for notifying land owners of record.

This section is not applicable to applications submitted under 20.2.70 NMAC.

Written Description of the Routine Operations of the Facility

A written description of the routine operations of the facility. Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

The Corona Compressor Station moves natural gas along a major transmission pipeline. Gas entering the station is compressed by three compressors (Unit ID 801, 802, 803) powered by internal combustion engines. Prior to compression, the gas flows through a separator/scrubber, where any free liquids (condensate) will drop out. These liquids are then manually dumped into the mist extractor (Unit ID MIST) to allow flash off due to pressure change. The pipeline liquids are then routed to a storage tank (Unit ID TANK) prior to removal via tank truck (Unit ID LOAD). Depending on liquid production, condensate will either stay in the mist extractor (Unit ID MIST) or flow to the condensate storage tank (Unit ID TANK). Condensate is periodically hauled away by trucks (Unit ID LOAD).

The compressor station does not have access to permanent electrical grid power. Therefore, to provide power for the station, a generator powered by a natural-gas driven turbine is operated full time. The turbine will be a 800 kilowatt (1,072 hp) Capstone C800S Microturbine, which consists of four identical 200 kilowatt (268 hp) C200 NG Microturbine units packaged together.

Source Determination

Source submitting under 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

Sources applying for a construction permit, PSD permit, or operating permit shall evaluate surrounding and/or associated sources (including those sources directly connected to this source for business reasons) and complete this section. Responses to the following questions shall be consistent with the Air Quality Bureau's permitting guidance, <u>Single Source Determination Guidance</u>, which may be found on the Applications Page in the Permitting Section of the Air Quality Bureau website.

Typically, buildings, structures, installations, or facilities that have the same SIC code, that are under common ownership or control, and that are contiguous or adjacent constitute a single stationary source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes. Submission of your analysis of these factors in support of the responses below is optional, unless requested by NMED.

A. Identify	the emission	sources	evaluated in	this section	(list and	describe):
A 11	. ~		~ · ·			

All sources at Corona Compressor Station.

B. App	oly the 3 crit	teria for deterr	nining a sing	gle source	e:					
<u>S</u>	IC Code:	Surrounding of	or associated	sources	belong	to the	same	2-digit	indust	trial
g	rouping (2-d	digit SIC code)	as this faci	lity, OR	surround	ding or	associ	iated so	urces	that
b	elong to diff	erent 2-digit SI	C codes are s	upport fa	cilities fo	or this s	ource.			

	⊠Yes	□ No
Common Ownership or Cownership or control as this		ding or associated sources are under common
	⊠ Yes	□ No
Contiguous or Adjacent: with this source.	Surrounding or	associated sources are contiguous or adjacent
	⊠ Yes	□ No

C. Make a determination:

- ☑ The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes. If in "A" above you evaluated only the source that is the subject of this application, all "YES" boxes should be checked. If in "A" above you evaluated other sources as well, you must check AT LEAST ONE of the boxes "NO" to conclude that the source, as described in the application, is the entire source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes.
- ☐ The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe):

Section 12

Section 12.A PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

This section is not applicable to applications submitted under 20.2.70 NMAC.

Determination of State & Federal Air Quality Regulations

This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

Required Information for Specific Equipment:

For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply**. **For example**, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

Required Information for Regulations that Apply to the Entire Facility:

See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

Regulatory Citations for Regulations That Do Not, but Could Apply:

If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation. For example if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not. For example, if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

Regulatory Citations for Emission Standards:

For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard. Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. Here are examples: a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

Federally Enforceable Conditions:

All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVENT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc: http://cfpub.epa.gov/adi/

Example of a Table for STATE REGULATIONS:

Form-Section 13 last revised: 5/29/2019 Section 13, Page 1 Saved Date: 3/23/2021

STATE REGU- LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide.
20.2.7 NMAC	Excess Emissions	Yes	Facility	All Title V major sources are subject to Air Quality Control Regulations, as defined in 20.2.7 NMAC, and are thus subject to the requirements of this regulation. Also listed as applicable in NSR Permit 2103M6R1.
20.2.23 NMAC	Fugitive Dust Control	No	Facility	The facility is not located in in Doña Ana or Luna Counties, and is therefore not subject to 40 CFR §51.930 or 20.2.23 NMAC.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No		Not applicable because the facility does not contain gas burning equipment having a heat input greater than 1,000,000 million BTU per year per unit.
20.2.34 NMAC	Oil Burning Equipment: NO ₂	No		Not applicable because this facility does not contain oil burning equipment having a heat input greater than 1,000,000 million BTU per year per unit.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No		Not applicable because Corona Compressor Station is not a natural gas processing plant
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.
20.2.38 NMAC	Hydrocarbon Storage Facility	No		Not applicable because the Corona Compressor Station is not a petroleum processing facility or petroleum production facility and does not contain a tank battery or a hydrocarbon storage facility associated with a petroleum processing facility.
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No		Not applicable because the Corona Compressor Station does not contain a sulfur recovery unit.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	801, 802, 803, GEN-1	The compressor engines and microturbine are Stationary Combustion Equipment. Transwestern will maintain compliance with the regulation by operating the combustion units according to manufacturer's recommendations to ensure complete combustion.
20.2.70 NMAC	Operating Permits	Yes	Facility	The Corona Compressor Station has been issued Title V Permit No. P151R3 and is major for NOx, CO, and VOC.
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	This facility is subject to 20.2.70 NMAC and is in turn subject to 20.2.71 NMAC.
20.2.72 NMAC	Construction Permits	Yes	Facility	This facility is subject to 20.2.72 NMAC and NSR Permit No. 0858-M4.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	Transwestern will respond as required per 20.2.73.300(B)(4) and will abide by the reporting requirements of 20.2.73(B)(5, 6, and7)
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	Yes	Facility	The site's PTE is > 250 tpy for NOx. The site has not triggered PSD. Most sources were installed in 1967 and 1968. This action is not a major modification.

STATE REGU- LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.75 NMAC	Construction Permit Fees	No	Facility	In accordance with 20.2.75.11.E an annual NSR enforcement and compliance fee shall not apply to sources subject to 20.2.71 NMAC.
20.2.77 NMAC	New Source Performance	Yes	803	The combustion engine (Unit No. 803) is subject to NSPS JJJJ and is therefore subject to 20.2.77.9.
20.2.78 NMAC	Emission Standards for HAPS	No	Units Subject to 40 CFR 61	This facility does not emit hazardous air pollutants which are subject to the requirements of 40 CFR Part 61.
20.2.79 NMAC	Permits – Nonattainment Areas	No	Facility	This regulation does not apply because the facility is not located in, nor does it affect, a nonattainment area.
20.2.80 NMAC	Stack Heights	No		This regulation does not apply because this is a Title V renewal application and no stacks at the site exceed good engineering practice (GEP)
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	801, 802, 803	The facility is an area source of HAPs with applicable MACT (ZZZZ). See discussion for 40 CFR 63 ZZZZ below.

Example of a Table for Applicable FEDERAL REGULATIONS (Note: This is not an exhaustive list):

FEDERAL REGU- LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	This regulation is applicable under 20.2.70 and 20.2.72 NMAC.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	803	See Subparts JJJJ discussion below.
NSPS 40 CFR60.40a, Subpart Da	Subpart Da, Performance Standards for Electric Utility Steam Generating Units	No		There are no steam generating units at the site.
NSPS 40 CFR60.40b Subpart Db	Electric Utility Steam Generating Units	No		There are no steam generating units at the site.
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial- Commercial- Institutional Steam Generating Units	No		There are no steam generating units at the site.

FEDERAL REGU- LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	No		No tanks at the site exceed 40,000 gallons in storage capacity.
NSPS 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	No		No tanks at the site were constructed, reconstructed or modified after July 23, 1984.
NSPS 40 CFR 60.330 Subpart GG	Stationary Gas Turbines	No		There are no stationary gas turbines at the site.
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from Onshore Gas Plants	No		The Corona Compressor Station is not a gas processing plant.
NSPS 40 CFR Part 60 Subpart LLL	Standards of Performance for Onshore Natural Gas Processing: SO ₂ Emissions	No		The Corona Compressor Station is not a gas processing plant.
NSPS 40 CFR Part 60 Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution for which construction, modification or reconstruction commenced after August 23, 2011 and before September 18, 2015	No		EPA Guidance Page: https://www3.epa.gov/airquality/oilandgas/ The rule applies to "affected" facilities that are constructed, modified, or reconstructed after Aug 23, 2011 (40 CFR 60.5365): gas wells, including fractured and hydraulically refractured wells, centrifugal compressors, reciprocating compressors, pneumatic controllers, certain equipment at natural gas processing plants, sweetening units at natural gas processing plants, and storage vessels. If there is a standard or other requirement, then the facility is an "affected facility." Currently there are standards for: gas wells (60.5375); centrifugal compressors (60.5380); reciprocating compressors (60.5385): controllers (60.5390); storage vessels (60.5395); equipment leaks (60.5400); sweetening units (60.5405). If standards apply, list the unit number(s) and regulatory citation of the standard that applies to that unit (e.g. Centrifugal Compressors 1a-3a are subject to the standards at 60.5380(a)(1) and (2) since we use a control device to reduce emissions)
NSPS	Standards of	No		Under the 2020 technical amendments to NSPS Subpart OOOOa, this subpart is

FEDERAL REGU- LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR Part 60 Subpart OOOOa	Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015			not applicable to natural gas transmission facilities.
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion Engines	No		There are no CI engines at the site.
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Yes	803	The combustion engine (Unit No. 803), a 4783 hp lean burn RICE manufactured post 7/1/2010, is subject to 60.4230(a)(4)(i) and meets the applicable standards under 60.4233(e) and Table 1.
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	No		There are no electric generating units at the site.
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	No		The facility is not an electric utility.
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of performance for Municipal Solid Waste (MSW) Landfills	No		The facility is not a municipal solid waste landfill.
NESHAP 40 CFR 61 Subpart A	General Provisions	No	Units Subject to 40 CFR 61	No subparts in 40 CFR 61 are applicable.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for Mercury	No		The facility does not engage in any of the activities regulated by the subpart.
NESHAP 40 CFR 61 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	No		There is no equipment is in VHAP service.
MACT 40 CFR 63, Subpart A	General Provisions	Yes	801, 802, 803	The engines are subject to MACT Subpart ZZZZ

FEDERAL REGU- LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
MACT 40 CFR 63.760 Subpart HH	Oil and Natural Gas Production Facilities	No		The Corona Compressor Station does not operate a dehydrator.
MACT 40 CFR 63 Subpart HHH		No		The Corona Compressor Station is not considered a part of the natural gas transmission and storage source category under this subpart.
MACT 40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No		The facility does not operate any sources that are regulated by the subpart.
MACT 40 CFR 63 Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants Coal & Oil Fire Electric Utility Steam Generating Unit	No		The facility does not operate any sources that are regulated by the subpart.
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)	Yes	801, 802, 803	Unit No. 803 is an affected source under MACT ZZZZ 63.6590(a)(2) and complies with 63.6600(b), Table 2a, and Table 2b. Facility is a major source of HAP (formaldehyde). Units 801 and 802 (2SLB) are existing units, over 500 hp, located at a major source that were constructed before 12-19-02. Units 801 and 802 are subject to ZZZZ, but are exempt from the requirements, including initial notification and requirements of Subpart A per 63.6590(b)(3).
40 CFR 64	Compliance Assurance Monitoring	No		Not applicable because no emission units at the Corona site are controlled major sources.
40 CFR 68	Chemical Accident Prevention	No		The facility does not meet the requirement in 40 CFR §68.10(a), as no regulated substances are present above threshold quantities.
Title IV – Acid Rain 40 CFR 72	Acid Rain	No		The facility does not generate commercial electric power or power for sale.
Title IV – Acid Rain 40 CFR 73	Sulfur Dioxide Allowance Emissions	No		The facility does not generate commercial electric power or power for sale.
Title IV-Acid Rain 40 CFR 75	Continuous Emissions Monitoring	No		The facility does not generate commercial electric power or power for sale.
Title IV – Acid Rain	Acid Rain Nitrogen Oxides Emission	No		The facility does not generate commercial electric power or power for sale.

FEDERAL REGU- LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 76	Reduction Program			
Title VI – 40 CFR 82	Protection of Stratospheric Ozone	No	N/A	The facility does not engage in any of the activities regulated by the subpart.

Section 14

Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon re This plan should not be submitted with this application. NSR (20.2.72 NMAC), PSD (20.2.74 NMAC) & Nonattainment (20.2.79 NMAC) Sources: By checking this box certifying this application the permittee certifies that it has developed an Operational Plan to Mitigate Source E During Malfunction, Startup, or Shutdown defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be materially available to the Department upon request. This plan should not be submitted with this application. Title V (20.2.70 NMAC), NSR (20.2.72 NMAC), PSD (20.2.74 NMAC) & Nonattainment (20.2.79 NMAC) Source checking this box and certifying this application the permittee certifies that it has established and implemented a P Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work	7 1	Hite V Sources (20.2.70 NMAC). By checking this box and certifying this application the permittee certifies that it has
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certifying this application the permittee certifies that it has developed an Operational Plan to Mitigate Source E During Malfunction, Startup, or Shutdown defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be material available to the Department upon request. This plan should not be submitted with this application. Title V (20.2.70 NMAC), NSR (20.2.72 NMAC), PSD (20.2.74 NMAC) & Nonattainment (20.2.79 NMAC) Source checking this box and certifying this application the permittee certifies that it has established and implemented a P Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be key or at the nearest field office to be made available to the Department upon request. This plan should not be submitted.		
During Malfunction, Startup, or Shutdown defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be material available to the Department upon request. This plan should not be submitted with this application. ■ Title V (20.2.70 NMAC), NSR (20.2.72 NMAC), PSD (20.2.74 NMAC) & Nonattainment (20.2.79 NMAC) Source checking this box and certifying this application the permittee certifies that it has established and implemented a P Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be key or at the nearest field office to be made available to the Department upon request. This plan should not be submitted.		SR (20.2.72 NMAC), PSD (20.2.74 NMAC) & Nonattainment (20.2.79 NMAC) Sources: By checking this box and
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standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kep or at the nearest field office to be made available to the Department upon request. This plan should not be submitted.	ch	necking this box and certifying this application the permittee certifies that it has established and implemented a Plan to
	sta	Inimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice andards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site

Section 15

Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

Alternative Operating Scenarios: Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

Construction Scenarios: When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: https://www.env.nm.gov/aqb/permit/aqb_pol.html. Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title "Construction Scenarios", specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc.

There are no alternative operating scenarios for this facility.

Air Dispersion Modeling

- 1) Minor Source Construction (20.2.72 NMAC) and Prevention of Significant Deterioration (PSD) (20.2.74 NMAC) ambient impact analysis (modeling): Provide an ambient impact analysis as required at 20.2.72.203.A(4) and/or 20.2.74.303 NMAC and as outlined in the Air Quality Bureau's Dispersion Modeling Guidelines found on the Planning Section's modeling website. If air dispersion modeling has been waived for one or more pollutants, attach the AQB Modeling Section modeling waiver approval documentation.
- 2) SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions during routine or predictable startup, shutdown, or maintenance (SSM) using realistic worst case scenarios following guidance from the Air Quality Bureau's dispersion modeling section. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions modeling requirements.
- 3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

What is the purpose of this application?	Enter an X for each purpose that applies
New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above.	
New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC).	
See #1 above. Note: Neither modeling nor a modeling waiver is required for VOC emissions.	
Reporting existing pollutants that were not previously reported.	
Reporting existing pollutants where the ambient impact is being addressed for the first time.	
Title V application (new, renewal, significant, or minor modification. 20.2.70 NMAC). See #3	X
above.	
Relocation (20.2.72.202.B.4 or 72.202.D.3.c NMAC)	
Minor Source Technical Permit Revision 20.2.72.219.B.1.d.vi NMAC for like-kind unit replacements.	
Other: i.e. SSM modeling. See #2 above.	
This application does not require modeling since this is a No Permit Required (NPR) application.	
This application does not require modeling since this is a Notice of Intent (NOI) application	
(20.2.73 NMAC).	
This application does not require modeling according to 20.2.70.7.E(11), 20.2.72.203.A(4),	
20.2.74.303, 20.2.79.109.D NMAC and in accordance with the Air Quality Bureau's Modeling	
Guidelines.	

Check each box that applies:

	11
	See attached, approved modeling waiver for all pollutants from the facility.
	See attached, approved modeling waiver for some pollutants from the facility.
	Attached in Universal Application Form 4 (UA4) is a modeling report for all pollutants from the facility.
	Attached in UA4 is a modeling report for some pollutants from the facility.
\boxtimes	No modeling is required.

Air quality dispersion modeling was last submitted in February 2020 in an application for NSR Permit No. 0858-M4.

Saved Date: 3/19/2021

Section 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

To show compliance with existing NSR permits conditions, you must submit a compliance test history. The table below provides an example.

To save paper and to standardize the application format, delete this sentence and the samples in the Compliance Test History Table, and begin your submittal for this attachment on this page.

Compliance Test History Table (Modify this sample table to suit your facility)

Unit No.	Test Description	Test Date
801	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	3/22/2016
802	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	3/22/2016
801	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	4/12/2017
802	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	4/12/2017
801	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	6/7/2018
802	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	6/7/2018
801	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	5/29/2019
802	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	5/29/2019
801	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	5/28/2020
802	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	5/28/2020
821	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	5/28/2020
822	Periodic Test (Portable Analyzer) for CO and NOx Per Permit Condition 3.4.2.2	5/28/2020
803	Initial Compliance Test (FTIR) for NOx, CO and VOC Per Permit Condition A201.B and NSPS JJJJ.	1/27/2021
GEN-1A-GEN-1D	Initial Test (FTIR) for CO and NOx per Permit Condition A205.C	1/26/2021-1/27/2021

Requirements for Title V Program

Do not print this section unless this is a Title V application.

Who Must Use this Attachment:

- * Any major source as defined in 20.2.70 NMAC.
- * Any source, including an area source, subject to a standard or other requirement promulgated under Section 111 Standards of Performance for New Stationary Sources, or Section 112 Hazardous Air Pollutants, of the 1990 federal Clean Air Act ("federal Act"). Non-major sources subject to Sections 111 or 112 of the federal Act are exempt from the obligation to obtain an 20.2.70 NMAC operating permit until such time that the EPA Administrator completes rulemakings that require such sources to obtain operating permits. In addition, sources that would be required to obtain an operating permit solely because they are subject to regulations or requirements under Section 112(r) of the federal Act are exempt from the requirement to obtain an Operating Permit.
- * Any Acid Rain source as defined under title IV of the federal Act. The Acid Rain program has additional forms. See http://www.env.nm.gov/aqb/index.html. Sources that are subject to both the Title V and Acid Rain regulations are encouraged to submit both applications simultaneously.
- * Any source in a source category designated by the EPA Administrator ("Administrator"), in whole or in part, by regulation, after notice and comment.

19.1 - 40 CFR 64, Compliance Assurance Monitoring (CAM) (20.2.70.300.D.10.e NMAC)

Any source subject to 40CFR, Part 64 (Compliance Assurance Monitoring) must submit all the information required by section 64.7 with the operating permit application. The applicant must prepare a separate section of the application package for this purpose; if the information is already listed elsewhere in the application package, make reference to that location. Facilities not subject to Part 64 are invited to submit periodic monitoring protocols with the application to help the AQB to comply with 20.2.70 NMAC. Sources subject to 40 CFR Part 64, must submit a statement indicating your source's compliance status with any enhanced monitoring and compliance certification requirements of the federal Act.

No sources at this facility meet the applicability requirements of 40 CFR 64 and therefore are not subject to this subpart.

19.2 - Compliance Status (20.2.70.300.D.10.a & 10.b NMAC)

Describe the facility's compliance status with each applicable requirement at the time this permit application is submitted. This statement should include descriptions of or references to all methods used for determining compliance. This statement should include descriptions of monitoring, recordkeeping and reporting requirements and test methods used to determine compliance with all applicable requirements. Refer to Section 2, Tables 2-N and 2-O of the Application Form as necessary. (20.2.70.300.D.11 NMAC) For facilities with existing Title V permits, refer to most recent Compliance Certification for existing requirements. Address new requirements such as CAM, here, including steps being taken to achieve compliance.

All sources at this facility are currently operating in compliance with all applicable requirements.

19.3 - Continued Compliance (20.2.70.300.D.10.c NMAC)

Provide a statement that your facility will continue to be in compliance with requirements for which it is in compliance at the time of permit application. This statement must also include a commitment to comply with other applicable requirements as they come into effect during the permit term. This compliance must occur in a timely manner or be consistent with such schedule expressly required by the applicable requirement.

Form-Section 19 last revised: 8/15/2011 Section 19, Page 1 Saved Date: 3/23/2021

19.6 - Compliance Plan and Schedule

Applications for sources, which are not in compliance with all applicable requirements at the time the permit application is submitted to the department, must include a proposed compliance plan as part of the permit application package. This plan shall include the information requested below:

A. Description of Compliance Status: (20.2.70.300.D.11.a NMAC)

A narrative description of your facility's compliance status with respect to all applicable requirements (as defined in 20.2.70 NMAC) at the time this permit application is submitted to the department.

B. Compliance plan: (20.2.70.300.D.11.B NMAC)

A narrative description of the means by which your facility will achieve compliance with applicable requirements with which it is not in compliance at the time you submit your permit application package.

C. Compliance schedule: (20.2.70.300D.11.c NMAC)

A schedule of remedial measures that you plan to take, including an enforceable sequence of actions with milestones, which will lead to compliance with all applicable requirements for your source. This schedule of compliance must be at least as stringent as that contained in any consent decree or administrative order to which your source is subject. The obligations of any consent decree or administrative order are not in any way diminished by the schedule of compliance.

D. Schedule of Certified Progress Reports: (20.2.70.300.D.11.d NMAC)

A proposed schedule for submission to the department of certified progress reports must also be included in the compliance schedule. The proposed schedule must call for these reports to be submitted at least every six (6) months.

E. Acid Rain Sources: (20.2.70.300.D.11.e NMAC)

If your source is an acid rain source as defined by EPA, the following applies to you. For the portion of your acid rain source subject to the acid rain provisions of title IV of the federal Act, the compliance plan must also include any additional requirements under the acid rain provisions of title IV of the federal Act. Some requirements of title IV regarding the schedule and methods the source will use to achieve compliance with the acid rain emissions limitations may supersede the requirements of title V and 20.2.70 NMAC. You will need to consult with the Air Quality Bureau permitting staff concerning how to properly meet this requirement.

NOTE: The Acid Rain program has additional forms. See http://www.env.nm.gov/aqb/index.html. Sources that are subject to both the Title V and Acid Rain regulations are **encouraged** to submit both applications **simultaneously**.

Transwestern is currently operating in compliance with all applicable requirements. Therefore, a Compliance Plan is not required.

19.7 - 112(r) Risk Management Plan (RMP)

Any major sources subject to section 112(r) of the Clean Air Act must list all substances that cause the source to be subject to section 112(r) in the application. The permittee must state when the RMP was submitted to and approved by EPA.

N/A. There are no sources at the facility subject to Section 112(r) of the Clean Air Act.

19.8 - Distance to Other States, Bernalillo, Indian Tribes and Pueblos

Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B NMAC)?

(If the answer is yes, state which apply and provide the distances.)

Other States: None

Indian Tribes: Mescalero Indian Reservation approximately 76 km

Bernalillo County: >50 km

19.9 - Responsible Official

Provide the Responsible Official as defined in 20.2.70.7.AD NMAC:

The Responsible Official is Mr. Clint Green, VP of Operations.

Section 20

Other Relevant Information

<u>Other relevant information</u>. Use this attachment to clarify any part in the application that you think needs explaining. Reference the section, table, column, and/or field. Include any additional text, tables, calculations or clarifying information.

Additionally, the applicant may propose specific permit language for AQB consideration. In the case of a revision to an existing permit, the applicant should provide the old language and the new language in track changes format to highlight the proposed changes. If proposing language for a new facility or language for a new unit, submit the proposed operating condition(s), along with the associated monitoring, recordkeeping, and reporting conditions. In either case, please limit the proposed language to the affected portion of the permit.

No other relevant information is being submitted with this application.

Section 22: Certification

Company Name: Transwestern Pipeline Company, LLC	
I, <u>David Roybal</u> , hereby certify that the information and as accurate as possible, to the best of my knowledge and professional	
Signed this 24th day of March , 2021 , upon my oa	th or affirmation, before a notary of the State of
New Mexico .	
*Signature	3-24-2/ Date
David Roybal Printed Name	<u>Director of Operations</u> Title
Scribed and sworn before me on this 24 day of March	<u>, 2021 .</u>
My authorization as a notary of the State of Hew Maxico	expires on the
Hh day of Desember, 2021.	
Dians M. Burreel Notary's Signature	Marca 24, 2021 Date
Dia Rea M. Birrell Notary's Printed Name	Official Seal DIANNA M BIRRELL Notary Public State of New Mexico My Comm. Expires 12/1/2004

*For Title V applications, the signature must be of the Responsible Official as defined in 20.2.70.7.AE NMAC.



Dear Customer,

The following is the proof-of-delivery for tracking number: 773266153813

Delivery Information:

Delivered Status: **Delivered To:** Receptionist/Front Desk

M.ROMERO 525 CAMINO DE LOS MARQUEZ Signed for by: **Delivery Location:**

Service type: FedEx Priority Overnight

Special Handling: Deliver Weekday **SANTA FE, NM, 87505**

> Delivery date: Mar 26, 2021 10:14

Shipping Information:

Tracking number: Ship Date: 773266153813 Mar 25, 2021

> Weight: 2.0 LB/0.91 KG

Recipient:

Air Quality Bureau, Permits Section, NM Environment Department 525 Camino de los Marquez Suite 1 SANTA FE, NM, US, 87505

Shipper:

Laura Worthen Lodes, Altamira 525 Central Park Drive Suite 500 OKLAHOMA CITY, OK, US, 73105

ETCANM1901 COR002 Reference

