



# **MAJOR SOURCE OPERATING PERMIT**

# PERMITTEE:TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLCFACILITY NAME:STATION 82FACILITY/PERMIT NO.:503-3045LOCATION:CODEN. MOBILE COUNTY, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, <u>Ala. Code</u> §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, <u>Ala. Code</u> §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.

Issuance Date:	DRAFT
Effective Date:	March 15, 2025
<b>Expiration Date:</b>	March 14, 2030

Alabama Department of Environmental Management

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General Permit Provisos		
	Federally Enforceable Provisos	Regulations
1.	Transfer	
	This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in ADEM Admin. Code r. 335-3-1613(1)(a)5.	ADEM Admin. Code r. 335-3-1602(6)
2.	Renewals	
	An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.	ADEM Admin. Code r. 335-3-1612(2)
	The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.	
3.	Severability Clause	
	The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.	ADEM Admin. Code r. 335-3-1605(e)
4.	<u>Compliance</u>	
	(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.	ADEM Admin. Code r. 335-3-1605(f)
	(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	ADEM Admin. Code r. 335-3-1605(g)
5.	Termination for Cause	
	This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.	ADEM Admin. Code r. 335-3-1605(h)

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6.	Property Rights	
	The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	ADEM Admin. Code r. 335-3-1605(i)
7.	Submission of Information	
	The permittee must submit to the Air Division, within 30 days or for such other reasonable time as the Air Division may set, any information that the Air Division may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Air Division copies of records required to be kept by this permit.	ADEM Admin. Code r. 335-3-1605(j)
8.	Economic Incentives, Marketable Permits, and Emissions Trading	
	No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	ADEM Admin. Code r. 335-3-1605(k)
9.	Certification of Truth, Accuracy, and Completeness	
	Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	ADEM Admin. Code r. 335-3-1607(a)
10	Inspection and Entry	
	Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:	ADEM Admin. Code r. 335-3-1607(b)
	<ul> <li>(a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit;</li> </ul>	
	(b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit;	
	(c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;	

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(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.	
11. <u>Compliance Provisions</u>	
(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.	ADEM Admin. Code r 335-3-1607(c)
(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.	
12. <u>Compliance Certification</u>	
The Permittee shall submit a complete and accurate compliance certification by <b>May 14<sup>th</sup></b> of each year for each annual reporting period of this permit (March 15 <sup>th</sup> – March 14 <sup>th</sup> ).	ADEM Admin. Code r 335-3-1607(e)
(a) The compliance certification shall include the following:	
<ol> <li>The identification of each term or condition of this permit that is the basis of the certification;</li> </ol>	
(2) The compliance status;	
<ul> <li>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with ADEM Admin. Code r. 335-3-1605(c) (Monitoring and Recordkeeping Requirements);</li> </ul>	
(4) Whether compliance has been continuous or intermittent;	
(5) Such other facts as the Air Division may require to determine the compliance status of the source;	
(b) The compliance certification shall be submitted to:	
Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463 and to:	
EPA Region 4 via email at EPA_R4_CAA_Reports@epa.gov or through the EPA's Compliance and Emissions Data Reporting Interface (CEDRI)	

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13. <u>Reopening for Cause</u>		
Under any of the following circumstances, this permit w reopened prior to the expiration of the permit:	rill be ADEM Admin. Code r. 335-3-1613(5)	
<ul> <li>(a) Additional applicable requirements under the Clean A of 1990 become applicable to the permittee w remaining permit term of three (3) or more years. S reopening shall be completed not later than eighteer months after promulgation of the applicable require No such reopening is required if the effective date requirement is later than the date on which this per due to expire.</li> </ul>	ith a uch a n (18) ment. of the	
(b) Additional requirements (including excess emis requirements) become applicable to an affected s under the acid rain program. Upon approval b Administrator, excess emissions offset plans sha deemed to be incorporated into this permit.	ource y the	
(c) The Department or EPA determines that this p contains a material mistake or that inaccurate states were made in establishing the emissions standards or terms or conditions of this permit.	ments	
(d) The Administrator or the Department determines the permit must be revised or revoked to assure composite with the applicable requirements.		
14. Additional Rules and Regulations		
This permit is issued on the basis of Rules and Regulations ex on the date of issuance. In the event additional Rules Regulations are adopted, it shall be the permit ho responsibility to comply with such rules.	and <u>Alabama 1975</u> , as	
15. <u>Equipment Maintenance or Breakdown</u>		
<ul> <li>(a) In case of shutdown of air pollution control equipment (operates pursuant to any permit issued by the Director necessary scheduled maintenance, the intent to shut such equipment shall be reported to the Air Division at (24) hours prior to the planned shutdown, unless shutdown is accompanied by the shutdown of the source such equipment is intended to control. Such prior notice include, but is not limited to the following:</li> </ul>	or) for 335-3-107(1),(2) down : least such which	
(1) Identification of the specific facility to be taken of service as well as its location and permit number;	out of	
(2) The expected length of time that the air pollution concerning equipment will be out of service;	ontrol	

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(3	3) The nature and quality of emissions of air contaminants likely to occur during the shutdown period;	
(4	<ul> <li>Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</li> </ul>	
(5	5) The reasons that it would be impossible or impractical to shut down the sources operation during the maintenance period.	
of ca al ec w in D	In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to ause, increased emissions of air contaminants which are bove an applicable standard, the person responsible for such quipment shall notify the Director within 24 hours or the next porking day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The birector will be notified when the breakdown has been porrected.	
16. <u>Oper</u>	ation of Capture and Control Devices	
perm mann Proce opera	r pollution control devices and capture systems for which this it is issued shall be maintained and operated at all times in a her so as to minimize the emissions of air contaminants. edures for ensuring that the above equipment is properly ated and maintained so as to minimize the emission of air aminants shall be established.	§22-28-16(d), <u>Code of</u> <u>Alabama 1975</u> , as amended
17. <u>Obno</u>	oxious Odors	
odors inspe taken Envir	permit is issued with the condition that, should obnoxious a arising from the plant operations be verified by Air Division ectors, measures to abate the odorous emissions shall be a upon a determination by the Alabama Department of commental Management that these measures are technically economically feasible.	ADEM Admin. Code r. 335-3-108
18. <u>Fugit</u>	tive Dust	
fr	recautions shall be taken to prevent fugitive dust emanating rom plant roads, grounds, stockpiles, screens, dryers, oppers, ductwork, etc.	ADEM Admin. Code r. 335-3-402
fo m sl	lant or haul roads and grounds will be maintained in the ollowing manner so that dust will not become airborne. A ninimum of one, or a combination, of the following methods hall be utilized to minimize airborne dust from plant or haul bads and grounds:	

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	<ol> <li>By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</li> </ol>	
	(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;	
	(3) By paving;	
	(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions.	
	Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Air Division prior to utilization.	
. Add	litions and Revisions	
proc	r modifications to this source shall comply with the modification cedures in ADEM Admin. Code r. 335-3-1613 or -3-1614.	ADEM Admin. Code : 335-3-1613 and 335-3-1614
prod 335	cedures in ADEM Admin. Code r. 335-3-1613 or	335-3-1613 and
prod 335 . <u>Rec</u> (a)	cedures in ADEM Admin. Code r. 335-3-1613 or -3-1614.	335-3-1613 and 335-3-1614
prod 335 . <u>Rec</u> (a)	cedures in ADEM Admin. Code r. 335-3-1613 or 3-1614. cordkeeping Requirements Records of required monitoring information of the source shall	335-3-1613 and 335-3-1614 ADEM Admin. Code
proc 335 . <u>Rec</u> (a)	cedures in ADEM Admin. Code r. 335-3-1613 or 3-1614. cordkeeping Requirements Records of required monitoring information of the source shall include the following:	335-3-1613 and 335-3-1614 ADEM Admin. Code
proc 335 . <u>Rec</u> (a)	<ul> <li>cedures in ADEM Admin. Code r. 335-3-1613 or i-3-1614.</li> <li>cordkeeping Requirements</li> <li>Records of required monitoring information of the source shall include the following:</li> <li>(1) The date, place, and time of all sampling or measurements;</li> </ul>	335-3-1613 and 335-3-1614 ADEM Admin. Code
prod 335 . <u>Rec</u> (a)	<ul> <li>cedures in ADEM Admin. Code r. 335-3-1613 or i-3-1614.</li> <li>cordkeeping Requirements</li> <li>Records of required monitoring information of the source shall include the following:</li> <li>(1) The date, place, and time of all sampling or measurements;</li> <li>(2) The date analyses were performed;</li> </ul>	335-3-1613 and 335-3-1614 ADEM Admin. Code
proo 335 . <u>Rec</u> (a)	<ul> <li>cedures in ADEM Admin. Code r. 335-3-1613 or i-3-1614.</li> <li>cordkeeping Requirements</li> <li>Records of required monitoring information of the source shall include the following: <ol> <li>The date, place, and time of all sampling or measurements;</li> <li>The date analyses were performed;</li> <li>The company or entity that performed the analyses;</li> </ol> </li> </ul>	335-3-1613 and 335-3-1614 ADEM Admin. Code
proo 335 . <u>Rec</u> (a)	<ul> <li>cedures in ADEM Admin. Code r. 335-3-1613 or i-3-1614.</li> <li>cordkeeping Requirements</li> <li>Records of required monitoring information of the source shall include the following: <ol> <li>The date, place, and time of all sampling or measurements;</li> <li>The date analyses were performed;</li> <li>The company or entity that performed the analyses;</li> <li>The analytical techniques or methods used;</li> </ol> </li> </ul>	335-3-1613 and 335-3-1614 ADEM Admin. Code

Federally Enforceable Provisos	Regulations
21. <u>Reporting Requirements</u>	
(a) Reports to the Air Division of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with ADEM Admin. Code r. 335-3-1604(9).	ADEM Admin. Code r. 335-3-1605(c)3.
(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	
22. Emission Testing Requirements	
Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.	ADEM Admin. Code r. 335-3-105(3) and 335-3-104(1)
The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.	
To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:	ADEM Admin. Code r. 335-3-104
(a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.	
(b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).	
(c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.	
(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	
A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.	ADEM Admin. Code r. 335-3-104

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All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.	
23. <u>Payment of Emission Fees</u>	
(a) The Permittee shall remit the annual Operating Permit Fees required by ADEM Admin. Code r. 335-1-704 according to the schedule in ADEM Admin. Code r. 335-1-705.	ADEM Admin. Code r. 335-1-705
(b) The Permittee shall submit its estimate of actual emissions for the previous calendar year according to the schedule in ADEM Admin. Code r. 335-1-705.	ADEM Admin. Code r. 335-1-705
24. Other Reporting and Testing Requirements	
Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.	ADEM Admin. Code r. 335-3-104(1)
25. <u>Title VI Requirements (Refrigerants)</u>	
Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.	ADEM Admin. Code r. 335-3-1605(a)
No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.	
The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR §82.166. Reports shall be submitted to the US EPA and the Department as required.	
26. <u>Chemical Accidental Prevention Provisions</u>	
If a chemical listed in Table 1 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:	40 CFR Part 68
(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.	
(b) The owner or operator shall submit one of the following:	

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(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,				
(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.				
27. <u>Display of Permit</u>				
This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will make the permit readily available for inspection by any or all persons who may request to see it.	ADEM Admin. Code r. 335-3-1602(2)			
28. <u>Circumvention</u>				
No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.	ADEM Admin. Code r. 335-3-110			
29. <u>Visible Emissions</u>				
Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	ADEM Admin. Code r. 335-3-401(1)			
30. <u>Fuel-Burning Equipment</u>				
Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-403.	ADEM Admin. Code r. 335-3-403			
Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-501.	ADEM Admin. Code r. 335-3-501			
31. <u>Process Industries – General</u>				
Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in ADEM Admin. Code r. 335-3-404.	ADEM Admin. Code r. 335-3-404			

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Federally Enforceable Provisos	Regulations			
32. Averaging Time for Emission Limits				
Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	ADEM Admin. Code r. 335-3-105			
33. <u>Open Burning</u>				
Precautions should be taken to ensure that no person shall ignite, cause to ignite, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.	ADEM Admin. Code r. 335-3-301			
34. <u>Permit Shield</u>				
A Permit Shield exists under this operating permit in accordance with ADEM Admin. Code r. 335-3-1610 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in this operating permit.	ADEM Admin. Code r. 335-3-1610			

# Emission Unit Nos. 001 and 002 (Mainline Unit Nos. 1 and 2) Summary Page

**Description:** Two (2) 6,546 hp Solar Taurus T7000 Natural Gas-fired Combustion Turbines (MLU 1 and 2)

Permitted Operating Schedule:	24 Hours	365 Days	 8760 Hours
Permitted Operating Schedule.	Day	Year	 Year

### **Emission Limitations:**

Emission Point Nos.	Description	Pollutant	Emission Limit	Regulation	
	001 Two (2) 6,546 hp Solar Taurus T7000 Natural Gas-fired Combustion Turbines			25.4 lb/hr, each	ADEM Admin. Code r. 335-3-1404
		NOx	183 ppmvd at 15% O <sub>2,</sub> each	ADEM Admin. Code r. 335-3-1002(33) 40 CFR 60, Subpart GG (NSPS)	
001		СО	N/A	N/A	
		VOC	N/A	N/A	
		SO <sub>2</sub>	Fuel meets definition of natural gas	ADEM Admin. Code r. 335-3-1002(33) 40 CFR 60, Subpart GG (NSPS)	
		РМ	N/A	N/A	
		HAP	N/A	N/A	

# Unit Specific Provisos

		Federally Enforceable Provisos	Regulations
1.	Ap	plicability	
	(a)	These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
	(b)	These units are subject to the applicable requirements of 40 CFR Part 60, Subpart GG, the Standards of Performance for Stationary Gas Turbines.	ADEM Admin. Code r. 335-3-1002(33)
	(c)	These units are subject to a synthetic minor source emission limit to restrict their potential to emit below the applicability threshold established at ADEM Admin. Code r. 335-3-1404, Air Permits Authorizing Construction in Clean Areas [Prevention of Significant Deterioration (PSD)].	ADEM Admin. Code r. 335-3-1404
2.	Em	ission Standards	
	(a)	The permittee shall not cause or allow emissions of nitrogen oxides (NO <sub>x</sub> ) from either of these units in excess of 25.4 lb/hr.	ADEM Admin. Code r. 335-3-1404
	(b)	These units are subject to the applicable emission standards of 40 CFR §60.332. The permittee shall not cause or allow emissions of nitrogen oxides (NO <sub>x</sub> ) from either of these units in excess of 183 ppmvd at $15\% O_2$ .	ADEM Admin. Code r. 335-3-1002(33)
	(c)	These units are subject to the applicable emission standards of 40 CFR §60.333. The permittee shall not cause or allow emissions of sulfur dioxide (SO <sub>2</sub> ) from either of these units in excess of 150 ppmvd at 15% O <sub>2</sub> OR, as an alternative, no fuel shall be burned in either of these units that contains sulfur in excess of 0.8 percent by weight (8,000 ppmw).	ADEM Admin. Code r. 335-3-1002(33)
	(d)	The permittee shall not discharge more than one six-minute average opacity greater than 20% in any 60-minute period from these units. At no time shall the permittee discharge a six- minute average opacity of particulate emissions greater than 40% from these units.	ADEM Admin. Code r. 335-3-401(1)
3.	Co	mpliance and Performance Test Methods and Procedures	
	(a)	Compliance with the nitrogen oxides $(NO_x)$ emission rate applicable to each of these units shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 7E in Appendix A of 40 CFR Part 60.	ADEM Admin. Code r. 335-3-105
	(b)	If testing is required, opacity shall be determined by 40 CFR Part 60, Appendix A, Method 9.	ADEM Admin. Code r. 335-3-105

	Federally Enforceable Provisos	Regulations
4. <u>E</u> 1	nission Monitoring	
(a	Emission testing shall be conducted semiannually to determine compliance with the applicable PSD synthetic minor source emission standard for $NO_x$ and the applicable 40 CFR Part 60, Subpart GG emission standard for $NO_x$ for each unit. Testing shall be conducted twice per calendar year at a frequency of once per semiannual period (Jan 1 <sup>st</sup> - Jun 30 <sup>th</sup> and Jul 1 <sup>st</sup> - Dec 31 <sup>st</sup> ), with a minimum of three (3) calendar months elapsing between tests. The first emission testing conducted following the effective date of this permit shall be conducted in accordance with an approved EPA Reference Method for $NO_x$ . All subsequent emission testing during the permit term may be conducted using either an approved EPA Reference Method for that pollutant or utilizing a portable analyzer in accordance with a protocol/method approved in advance by the Air Division.	ADEM Admin. Code 1 335-3-1605(c)
	(i) If emission results from the above referenced performance test are less than or equal to 75% of the emission limit, then the frequency of subsequent performance tests may be reduced from a semiannual to an annual basis, with no more than fourteen (14) months elapsing between tests.	
	(ii) If the results of any subsequent performance test exceed 75% of the emission limit, then semiannual performance testing shall resume until the unit demonstrates compliance for two (2) consecutive testing events demonstrating emissions are less than or equal to 75% of the emission limit, at which time annual testing may resume.	
	(iii) After the first performance test conducted following the issuance of this renewal permit, no periodic monitoring will be required if this unit does not operate for production purposes during the respective semiannual or annual testing period, whichever applies.	
(b	The permittee shall only fire natural gas in these units.	ADEM Admin. Code : 335-3-1605(c)
(c	These units are subject to the applicable monitoring requirements of 40 CFR $(3)(i)$ , which include demonstrating the fuel meets the definition of natural gas in 40 CFR $(3)(i)$ by maintaining a current tariff sheet specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less.	ADEM Admin. Code : 335-3-1002(33)
5. <u>R</u>	ecordkeeping and Reporting Requirements	
(a	The permittee shall maintain records of the most current fuel tariff sheet as required by 40 CFR §60.334(h)(3)(i), on-site in a permanent form suitable for inspection for at least five (5) years (2 years on-site and 3 years off-site) from the date of generation of each record.	ADEM Admin. Code 1 335-3-1605(c)

Federally Enforceable Provisos	Regulations
(b) The permittee shall submit the results of all emission tests conducted to the Air Division within 30 days of the actual completion of the test unless the Air Division specifically approves an extension of time.	ADEM Admin. Code r. 335-3-1605(c)
(c) The permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual period (January 1 <sup>st</sup> - June 30 <sup>th</sup> and July 1 <sup>st</sup> - December 31 <sup>st</sup> ). The report shall include a statement addressing whether only natural gas was fired in these units and all emission monitoring was conducted as required during the reporting period. If all emission monitoring was not conducted, the report shall explain the reason(s) why it was not performed. The report shall also include a statement addressing whether these units were operated for production purposes during each respective reporting period.	ADEM Admin. Code r. 335-3-1605(c)

# Emission Unit No. 003 (Mainline Unit No. 3) Summary Page

**Description:** 15,675 hp Solar Mars T15000 Natural Gas-fired Combustion Turbine (MLU 3)

Permitted Operating Schedules	24 Hours	365 Days	8760 Hours
Permitted Operating Schedule:	Day	Year	Year

# **Emission Limitations:**

Emission Point No.	Description	Pollutant	Emission Limit	Regulation	
				11.97 lb/hr	ADEM Admin. Code r. 335-3-1404
	NOx	204 ppmvd at 15% O2	ADEM Admin Code r. 335-3-1002(33) 40 CFR 60, Subpart GG (NSPS)		
000	15,675 hp Solar Mars T15000 Natural Gas-fired Combustion Turbine	СО	14.57 lb/hr	ADEM Admin. Code r. 335-3-1404	
003		VOC	N/A	N/A	
		SO <sub>2</sub>	Fuel meets definition of natural gas	ADEM Admin Code r. 335-3-1002(33) 40 CFR 60, Subpart GG (NSPS)	
		РМ	N/A	N/A	
		HAP	N/A	N/A	

# Unit Specific Provisos

		Federally Enforceable Provisos	Regulations
1.	<u>Apr</u>	<u>plicability</u>	
		This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
	•••	This unit is subject to the applicable requirements of 40 CFR Part 60, Subpart GG, the Standards of Performance for Stationary Gas Turbines.	ADEM Admin. Code r. 335-3-1002(33)
		This unit is subject to a synthetic minor source emission limit to restrict its potential to emit below the applicability threshold established at ADEM Admin. Code r. 335-3-1404, Air Permits Authorizing Construction in Clean Areas [Prevention of Significant Deterioration (PSD)].	ADEM Admin. Code r. 335-3-1404
2.	Em	ission Standards	
	• •	The permittee shall not cause or allow emissions of nitrogen oxides (NO <sub>x</sub> ) from this unit in excess of $11.97 \text{ lb/hr}$ .	ADEM Admin. Code r. 335-3-1404
		The permittee shall not cause or allow emissions of carbon monoxide (CO) from this unit in excess of 14.57 lb/hr.	ADEM Admin. Code r. 335-3-1404
		This unit is subject to the applicable emission standards of 40 CFR §60.332. The permittee shall not cause or allow emissions of nitrogen oxides (NO <sub>x</sub> ) from this unit in excess of 204 ppmvd at 15% $O_2$ .	ADEM Admin. Code r. 335-3-1002(33)
		This unit is subject to the applicable emission standards of 40 CFR §60.333. The permittee shall not cause or allow emissions of sulfur dioxide (SO <sub>2</sub> ) from this unit in excess of 150 ppmvd at 15% O <sub>2</sub> OR, as an alternative, no fuel shall be burned in the unit that contains sulfur in excess of 0.8 percent by weight (8,000 ppmw).	ADEM Admin. Code r. 335-3-1002(33)
		The permittee shall not discharge more than one six-minute average opacity greater than 20% in any 60-minute period from this unit. At no time shall the permittee discharge a six-minute average opacity of particulate emissions greater than 40% from this unit	ADEM Admin. Code r. 335-3-401(1)
3.	Cor	npliance and Performance Test Methods and Procedures	
		Compliance with the nitrogen oxides $(NO_x)$ emission rate of this unit shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 7E in Appendix A of 40 CFR Part 60.	ADEM Admin. Code r. 335-3-105

	Federally Enforceable Provisos	Regulations
(b)	Compliance with the carbon monoxide (CO) emission rate of this unit shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 10 in Appendix A of 40 CFR Part 60.	ADEM Admin. Code r. 335-3-105
(c)	If testing is required, opacity shall be determined by 40 CFR Part 60, Appendix A, Method 9.	ADEM Admin. Code r. 335-3-105
4. <u>En</u>	lission Monitoring	
(a)	Emission testing shall be conducted semiannually to determine compliance with the applicable PSD synthetic minor source emission standard for NO <sub>x</sub> and CO and the applicable 40 CFR Part 60, Subpart GG emission standard for NO <sub>x</sub> . Testing shall be conducted twice per calendar year at a frequency of once per semiannual period (Jan 1 <sup>st</sup> - Jun 30 <sup>th</sup> and Jul 1 <sup>st</sup> - Dec 31 <sup>st</sup> ), with a minimum of three (3) calendar months elapsing between tests. The first emission testing conducted following the effective date of this permit shall be conducted in accordance with an approved EPA Reference Method for NO <sub>x</sub> and CO. All subsequent emission testing during the permit term may be conducted using either an approved EPA Reference Method for that pollutant or utilizing a portable analyzer in accordance with a protocol/method approved in advance by the Air Division.	ADEM Admin. Code r. 335-3-1605(c)
	(i) If emission results from the above referenced performance test are less than or equal to 75% of the emission limit, then the frequency of subsequent performance tests may be reduced from a semiannual to an annual basis, with no more than fourteen (14) months elapsing between tests.	
	(ii) If the results of any subsequent performance test exceed 75% of the emission limit, then semiannual performance testing shall resume until the unit demonstrates compliance for two (2) consecutive testing events demonstrating emissions are less than or equal to 75% of the emission limit, at which time annual testing may resume.	
	(iii) After the first performance test conducted following the issuance of this renewal permit, no periodic monitoring will be required if this unit does not operate for production purposes during the respective semiannual or annual testing period, whichever applies.	
(b)	The permittee shall only fire natural gas in this unit.	ADEM Admin. Code r. 335-3-1605(c)
(c)	This unit is subject to the applicable monitoring requirements of 40 CFR $(0.334(h)(3)(i))$ , which include demonstrating the fuel meets the definition of natural gas in 40 CFR $(0.331(u))$ by maintaining a current tariff sheet specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less.	ADEM Admin. Code r. 335-3-1002(33)

		Federally Enforceable Provisos	Regulations
5.	<u>Re</u>	cordkeeping and Reporting Requirements	
	(a)	The permittee shall maintain records of the most current fuel tariff sheet as required by 40 CFR $60.334(h)(3)(i)$ , on-site in a permanent form suitable for inspection for at least five (5) years (2 years on-site and 3 years off-site) from the date of generation of each record.	ADEM Admin. Code r. 335-3-1605(c)
	(b)	The permittee shall submit the results of all emission tests conducted to the Air Division within 30 days of the actual completion of the test unless the Air Division specifically approves an extension of time.	ADEM Admin. Code r. 335-3-1605(c)
	(c)	The permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual period (January 1 <sup>st</sup> - June 30 <sup>th</sup> and July 1 <sup>st</sup> - December 31 <sup>st</sup> ). The report shall include a statement addressing whether only natural gas was fired in this unit and all emission monitoring was conducted as required during the reporting period. If all emission monitoring was not conducted, the report shall explain the reason(s) why it was not performed. The report shall also include a statement addressing whether this unit was operated for production purposes during each respective reporting period.	ADEM Admin. Code r. 335-3-1605(c)

# Emission Unit No. 004 (Auxiliary Unit No. 1) Summary Page

**Description:** 1,478 hp Waukesha L7042GL, 4-Stroke, Lean Burn Natural Gas-fired Emergency Reciprocating Engine (AUX 1)

### **Permitted Operating Schedule:**

500 Hours/Year

Emission Point No.	Description	Pollutant	Emission Limit	Regulation
	1,478 hp Waukesha L7042GL, 4- Stroke, Lean Burn Natural Gas-fired Emergency Reciprocating Engine	NOx	7.32 lb/hr	ADEM Admin. Code r. 335-3-1404
		СО	8.63 lb/hr	ADEM Admin. Code r. 335-3-1404
004		VOC	N/A	N/A
		SO <sub>2</sub>	N/A	N/A
		РМ	N/A	N/A
		HAP	N/A	N/A

### **Emission Limitations:**

# Unit Specific Provisos

		Federally Enforceable Provisos	Regulations
1.	<u>Ap</u>	plicability	
	(a)	This unit is subject to the applicable requirements of ADEM Admin. Code r. 335-3-1603, "Major Source Operating Permits."	ADEM Admin. Code r. 335-3-1603
	(b)	This unit is subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZ, the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), and meets the definition for an emergency stationary RICE as provided by 40 CFR §63.6640(f). The permittee shall only operate this unit as emergency stationary RICE as defined in this standard.	40 CFR Part 63, Subpart ZZZZ
	(c)	This unit is subject to a synthetic minor source emission limit to restrict its potential to emit below the applicability threshold established at ADEM Admin. Code r. 335-3-1404, Air Permits Authorizing Construction in Clean Areas [Prevention of Significant Deterioration (PSD)].	ADEM Admin. Code r. 335-3-1404
2.	Em	ission Standards	
	(a)	The permittee shall not operate this unit in excess of 500 hours during any consecutive 12-month period.	ADEM Admin. Code r. 335-3-1404
	(b)	The permittee shall not cause or allow emissions of nitrogen oxides (NO <sub>x</sub> ) from this unit in excess of 7.32 lb/hr.	ADEM Admin. Code r. 335-3-1404
	(c)	The permittee shall not cause or allow emissions of carbon monoxide (CO) from this unit in excess of 8.63 lb/hr.	ADEM Admin. Code r. 335-3-1404
	(d)	The permittee shall not discharge more than one six-minute average opacity greater than 20% in any 60-minute period from this unit. At no time shall the permittee discharge a six-minute average opacity of particulate emissions greater than 40% from this unit.	ADEM Admin. Code r. 335-3-401(1)
	(e)	The permittee shall comply with the applicable requirements of 40 CFR §63.6603 and Table 2d to Subpart ZZZZ, which include, but may not be limited to:	40 CFR Part 63, Subpart ZZZZ
		(i) Meet the following work practice requirements, except during periods of startup:	
		A. Change oil and filter every 500 hours of operation or within one (1) year plus 30 days of previous change, whichever comes first; or participate in the oil analysis program per 40 CFR §63.6625(j);	

Federally Enforceable Provisos	Regulations
B. Inspect spark plugs every 1,000 hours of operation or within one (1) year plus 30 days of previous inspection, whichever comes first, and replace as necessary; and	
C. Inspect all hoses and belts every 500 hours of operation or within one (1) year plus 30 days of previous inspection, whichever comes first, and replace as necessary.	
(ii) During periods of startup, minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non- startup emission limitations apply.	
(iii) If this unit is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated.	
<ul><li>(f) The permittee shall not operate this unit except as provided in 40 CFR §63.6640(f)(1) through (f)(4), which includes but may not be limited to:</li></ul>	40 CFR Part 63, Subpart ZZZZ
(i) Emergency Situations;	
<ul> <li>(ii) Operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the test are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engines. Maintenance checks and readiness testing of the units are limited to 100 hours per year; and</li> </ul>	
(iii) Operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted toward the 100 hours per year provided for maintenance and testing. The 50 hours per year for non- emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.	

		Federally Enforceable Provisos	Regulations
3.	Coi	npliance and Performance Test Methods and Procedures	
	(a)	Compliance with the nitrogen oxides $(NO_x)$ emission rate of this unit shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 7E in Appendix A of 40 CFR 60.	ADEM Admin. Code r. 335-3-105
	(b)	Compliance with the carbon monoxide (CO) emission rate of this unit shall be determined by EPA Reference Methods 1, 2, 3 and 4 or 19, and EPA Reference Method 10 in Appendix A of 40 CFR 60.	ADEM Admin. Code r. 335-3-105
	(c)	If testing is required, opacity shall be determined by 40 CFR Part 60, Appendix A, Method 9.	ADEM Admin. Code r. 335-3-105
4.	Em	ission Monitoring	
	(a)	The permittee shall only fire natural gas in this unit.	ADEM Admin. Code r. 335-3-1605(c)
	(b)	Within 15 days of the end of each calendar month, the permittee shall calculate the number of hours of operation of this unit for the previous calendar month and the previous 12-month period.	ADEM Admin. Code r. 335-3-1404
	(c)	The permittee shall operate and maintain this unit according to the manufacturer's emission-related operation and maintenance instructions or develop and follow a maintenance plan that provides for, to the extent practicable, the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	40 CFR Part 63, Subpart ZZZZ
	(d)	The permittee shall install a non-resettable hour meter if one is not already installed.	40 CFR Part 63, Subpart ZZZZ
5.	Rec	cordkeeping and Reporting Requirements	
	(a)	The permittee shall maintain records of hours of operation on a monthly and 12-month rolling total basis.	ADEM Admin. Code r. 335-3-1404
	(b)	The permittee shall submit the results of all emission tests conducted to the Air Division within 30 days of the actual completion of the test unless the Air Division specifically approves an extension of time.	ADEM Admin. Code r. 335-3-1605(c)
	(c)	The permittee shall keep records of the operation and maintenance of this unit in accordance with 40 CFR §63.6655. At a minimum, these records shall include:	ADEM Admin. Code r. 335-3-1605(c) and 40 CFR Part 63, Subpart ZZZZ
		<ul> <li>(i) For each period of operation, the length of operation and the reason the engine was in operation during that time. For periods of operation designated as "emergency operation," the records shall reflect what classified the operation as emergency;</li> </ul>	

	Federally Enforceable Provisos	Regulations
	<ul> <li>(ii) The total number of hours the engine was operated during a calendar year subtotaled by the reason the engine was in operation;</li> </ul>	
	(iii) The dates of each oil and filter change with the corresponding hour on the hour meter; <i>or</i> the dates of each oil analysis with the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine;	
	(iv) The dates of each inspection and replacement of air cleaners, hoses, and belts with the corresponding hour on the hour meter; and	
	(v) The dates and nature of other emission-related repairs and maintenance performed.	
(d)	The permittee shall maintain on-site for the life of this unit either a copy of the manufacturer's emission-related operation and maintenance instructions for the unit or the maintenance plan developed in accordance with 40 CFR §63.6625(e) for the unit.	40 CFR Part 63, Subpart ZZZZ
(e)	The permittee shall maintain files of all information (including all reports and notifications) required by 40 CFR Part 63, Subparts A and ZZZZ for this unit recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on-site. The remaining 3 years of data may be retained off-site.	ADEM Admin. Code r. 335-3-1605(c) and 40 CFR Part 63, Subpart ZZZZ
(f)	The permittee shall report to the Air Division any failure to perform a work practice on the schedule required, including instances when the work practice standard was not performed due to emergency operation or unacceptable risk under a federal, state, or local law. The permittee shall submit the report within two working days of the deviation and shall provide an explanation as to why the work practice requirement was not performed.	ADEM Admin. Code r. 335-3-1605(c) and 40 CFR Part 63, Subpart ZZZZ
(g)	The permittee shall submit a Semiannual Monitoring Report, as required by General Permit Proviso No. 21(a), no later than 60 days after the end of each semiannual period (January 1 <sup>st</sup> - June 30 <sup>th</sup> and July 1 <sup>st</sup> - December 31 <sup>st</sup> ). The report shall include a statement addressing whether only natural gas was fired in this unit and all emission monitoring was conducted as required during the reporting period. If all emission monitoring was not conducted, the report shall explain the reason(s) why it was not performed. The report shall also include the monthly and 12-month totals of the hours of operation that were calculated during the reporting period.	ADEM Admin. Code r. 335-3-1605(c)