



MAJOR SOURCE OPERATING PERMIT

Permittee: Morgan Energy Center, LLC

Facility Name: Morgan Energy Center

Facility No.: 712-0080

Location: Decatur, Morgan 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: TBD

Effective Date: TBD

Expiration Date: January 24, 2026

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ACID RAIN PERMIT	.ATTACHED

Fede	rally Enforceable Provisos	Regulations
1.	<u>Transfer</u>	
	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 Rule 335-3-1613(1)(a)5.	Rule 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.	Rule 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, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.	Rule 335-3-1605(e)
4.	Compliance	
	(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.	Rule 335-3-1605(f)

Fed	erally Enforceable Provisos	Regulations
5.	(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. Termination for Cause	Rule 335-3-1605(g)
J .		
	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.	Rule 335-3-1605(h)
6.	Property Rights	
	The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	Rule 335-3-1605(i)
7.	Submission of Information	
	The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department 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 Department copies of records required to be kept by this permit.	Rule 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.	Rule 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,	Rule 335-3-1607(a)

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	that, reaso docu	onable inquiry, the statements and information in the ment are true, accurate and complete.	
10.	<u>Insp</u>	ection and Entry	
	may repre Envi	n presentation of credentials and other documents as be required by law, the permittee shall allow authorized esentatives of the Alabama Department of ronmental Management and EPA to conduct the wing:	Rule 335-3-1607(b)
	(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;	
	(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;	
	(d)	Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.	
11.	Com	pliance Provisions	
	(a)	The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.	Rule 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.	Com	pliance Certification	

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than Fe specified or requir shall co	iance certification shall be submitted yearly no later ebruary 28th unless more frequent periods are according to the specific rule governing the source red by the Department. The compliance certification wer the reporting period of January 1st through er 31st of each year.	Rule 335-3-1607(e)
` '	ne compliance certification shall include the llowing:	
(1	The identification of each term or condition of this permit that is the basis of the certification;	
(2	The compliance status;	
(3	The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-1605(c) (Monitoring and Recordkeeping Requirements);	
(4	Whether compliance has been continuous or intermittent;	
(5	Such other facts as the Department may require to determine the compliance status of the source;	
(b) T	he compliance certification shall be submitted to:	
Alabam	a Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463	
	and to:	
Enfor	cement and Compliance Assurance Division EPA Region 4 Atlanta Federal Center 61 Forsyth Street, SW Atlanta, GA 30303	

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13.	Reopening for Cause		
		er any of the following circumstances, this permit will be ened prior to the expiration of the permit:	Rule 335-3-1613(5)
	(a)	Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.	
	(b)	Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.	
	(c)	The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.	
	(d)	The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	
14.	<u>Addi</u>	itional Rules and Regulations	
	exist Rule	permit is issued on the basis of Rules and Regulations ing on the date of issuance. In the event additional is and Regulations are adopted, it shall be the permit er's responsibility to comply with such rules.	Alabama 1975, as
15.	<u>Equi</u>	ipment Maintenance or Breakdown	
	(a)	In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such	Rule 335-3-107(1), (2)

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	twen shute the s inten	oment shall be reported to the Director at least ty-four (24) hours prior to the planned down, unless such shutdown is accompanied by hutdown of the source which such equipment is ded to control. Such prior notice shall include, s not limited to the following:	
	(1)	Identification of the specific facility to be taken out of service as well as its location and permit number;	
	(2)	The expected length of time that the air pollution control equipment will be out of service;	
	(3)	The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;	
	(4)	Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;	
	(5)	The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.	
(b)	or up is exconta stand shall work pertinted the latest and the latest areas and the latest areas	e event that there is a breakdown of equipment oset of process in such a manner as to cause, or expected to cause, increased emissions of air aminants which are above an applicable dard, the person responsible for such equipment notify the Director within 24 hours or the next ing day and provide a statement giving all nent facts, including the estimated duration of breakdown. The Director shall be notified when reakdown has been corrected.	
16. <u>Ope</u>	ration	of Capture and Control Devices	

All air pollution control devices and capture systems for \$22-28-16(d), Code of which this permit is issued shall be maintained and Alabama operated at all times in a manner so as to minimize the

1975,

Fede	erally I	Enforce	eable Provisos	Regulations
	the a	above ed	f air contaminants. Procedures for ensuring that quipment is properly operated and maintained so nize the emission of air contaminants shall be	amended
17.	<u>Obn</u>	oxious	<u>Odors</u>	
	obnoverification odor the	oxious ied by ous em Alabam these	t is issued with the condition that, should odors arising from the plant operations be Air Division inspectors, measures to abate the dissions shall be taken upon a determination by the Department of Environmental Management measures are technically and economically	Rule 335-3-108
18.	Fugi	tive Du	<u>ıst</u>	
	(a)	eman	autions shall be taken to prevent fugitive dust lating from plant roads, grounds, stockpiles, ns, dryers, hoppers, ductwork, etc.	Rule 335-3-402
	(b)	in the airbo follow	or haul roads and grounds will be maintained e following manner so that dust will not become rne. A minimum of one, or a combination, of the ving methods shall be utilized to minimize rne dust from plant or haul roads and grounds:	
		(1)	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;	
		(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;	

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	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 Department prior to utilization.			
19.	<u>Addi</u>	tions :	and Revisions	
			ications to this source shall comply with the n procedures in Rules 335-3-1613 or 335-3-16-	Rule 335-3-1613 and .14
20.	Reco	rdkee	ping Requirements	
	(a)		rds of required monitoring information of the ce shall include the following:	Rule 335-3-1605(c)2
		(1)	The date, place, and time of all sampling or measurements;	
		(2)	The date analyses were performed;	
		(3)	The company or entity that performed the analyses;	
		(4)	The analytical techniques or methods used;	
		(5)	The results of all analyses; and	
		(6)	The operating conditions that existed at the time of sampling or measurement.	
	(b)	and at le samp Supp main recon	ntion of records of all required monitoring data support information of the source for a period of east 5 years from the date of the monitoring ple, measurement, report, or application. For information includes all calibration and attenance records and all original strip-chart redings for continuous monitoring instrumentation copies of all reports required by the permit	

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21.	Repo	orting Requirements	
	(a)	Reports to the Department 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 Rule 335-3-1604(9).	Rule 335-3-1605(c)3
	(b)	Deviations from permit requirements shall be reported within 48 hours or 2 working day 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		
	provisafet acco 40 o	a point of emission which requires testing will be ided with sampling ports, ladders, platforms, and other by equipment to facilitate testing performed in rdance with procedures established by Part 60 of Title of the Code of Federal Regulations, as the same may be ended or revised.	Rule 335-3-105(3) and Rule 335-3-1- .04(1)
	in a subr	Air Division must be notified in writing at least 10 days dvance of all emission tests to be conducted and nitted as proof of compliance with the Department's air ation control rules and regulations.	
	proc	avoid problems concerning testing methods and edures, the following shall be included with the ication letter:	
	(1)	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.	Rule 335-3-104
	(2)	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	

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		edia, and probe cleaning method and solvent to be ed (if test procedures require probe cleaning).	
	the	description of the process(es) to be tested including e feed rate, any operating parameters used to ntrol or influence the operations, and the rated pacity.	
	loc	sketch or sketches showing sampling point rations and their relative positions to the nearest estream and downstream gas flow disturbances.	
	owner or	meeting may be held at the request of the source the Air Division. The necessity for such a meeting required attendees will be determined on a case-by- s.	Rule 335-3-104
	30 days	eports must be submitted to the Air Division within of the actual completion of the test unless an of time is specifically approved by the Air Division.	
23.	<u>Payment</u>	of Emission Fees	
		mission fees shall be remitted each year according schedule in ADEM Admin. Code R. 335-1-704.	Rule 335-1-704
24.	Other Re	eporting and Testing Requirements	
	fuel analy may be pollution	ion of other reports regarding monitoring records, yses, operating rates, and equipment malfunctions required as authorized in the Department's air control rules and regulations. The Department tire emission testing at any time.	Rule 335-3-104(1)
25.	Title VI	Requirements (Refrigerants)	
	including Class II of 82, Subpand mai practices	ity having appliances or refrigeration equipment, gair conditioning equipment, which use Class I or ezone-depleting substances as listed in 40 CFR Part part A, Appendices A and B, shall service, repair, intain such equipment according to the work, personnel certification requirements, and certified and recovery equipment specified in 40 CFR Part art F	335-3-1605(a)

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	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.	Chemical Accidental Prevention Provisions	
	If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:	
	(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:	
	(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 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.	Display of Permit	
	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 be made readily available for inspection by any or all persons who may request to see it.	
28.	Circumvention	
	No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted,	

Fede	rally Enforceable Provisos	Regulations	
	conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.	<u> </u>	
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.	Rule 335-3-401(1)	
30.	Fuel-Burning Equipment		
	(a) 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 Rule 335-3-403.	Rule 335-3-403	
	(b) 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 Rule 335-3-501.	Rule 335-3-501	
31.	Process Industries – General		
	Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Rule 335-3-404.	Rule 335-3-404	
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.	Rule 335-3-105	
33.	Emissions Inventory Reporting Requirements		
	In order to meet the statewide emissions inventory reporting	Rule 335-3-115	
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Federally Enforceable Provisos		Regulations
	requirements under 40 CFR 51, Appendix A, the permittee shall comply with the reporting requirements under ADEM Admin. Code r. 335-3-115.	
34.	Permit Shield	
	A permit shield exists under this operating permit in accordance with ADEM Admin. Code 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. The permit shield is based on the accuracy of the information supplied in Table 2 of the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in Table 2 of the application are not applicable to this source.	Rule 335-3-1610(1)

Summary Page for Three Combustion Turbines and Three Heat Recovery Steam Generators with Duct Burners and Selective Catalytic Reduction (SCR)

Permitted Operating Schedule: 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit (per CT)	Regulation
Stacks #1, #2 & #3	CT1, CT2, & CT3, each w/duct burner & SCR	NOx	0.013 lb/MM Btu & 31.2 lb/hr 112 ppmvd at 15% O ₂	Rule 335-3-1404 (BACT) 40 CFR Part 60, Subpart GG
		CO ¹	0.1 lb/MM Btu & 232.0 lb/hr	Rule 335-3-1404 (BACT)
		CO ²	0.117 lb/MM Btu & 156.0 lb/hr	Rule 335-3-1404 (BACT)
		VOCs	0.0131 lb/MM Btu & 30.0 lb/hr	Rule 335-3-1404 (BACT)
		PM	0.005 lb/MM Btu & 11.0 lb/hr	Rule 335-3-1404 (BACT)
		SO ₂	0.8 % S by weight in fuel	Rule 335-3-1002(33) 40 CFR Part 60, Subpart GG
		Opacity	10%	Rule 335-3-1404 (BACT)

¹ These limits are for times when power augmentation is in operation.

² These limits are for times when only the turbine is being operated.

Provisos for Three Combustion Turbines and Three Heat Recovery Steam Generators with Duct Burners and Selective Catalytic Reduction (SCR)

Fed	erally Enforceable Provisos	Regulations
App	licability	
1.	These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16, "Major Source Operating Permits."	Rule 335-3-1603
2.	These sources are subject to the applicable requirements of ADEM Admin. Code R. 335-3-1404, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	Rule 335-3-1404 (BACT)
3.	The three duct burners are subject to the NSPS regulations	Rule 335-3-1002(a)
	for Electric Utility Steam Generating Units, Subpart Da of 40 CFR Part 60.	40 CFR 60.40Da(a)
4.	The three gas-fired turbines are subject to the NSPS regulations for Stationary Gas Turbines, 40 CFR Part 60 Subpart GG.	Rule 335-3-1002(33)
		40 CFR 60.630(a)-(b)
5.	The turbines and duct burners are subject to the applicable requirements of Subpart A, the General Provision of 40 CFR Part 60.	Rule 335-3-1002(1)
		40 CFR 60.1(a)
6.	These units are subject to the Acid Rain Rules contained in Rule 335-3-18 and 40 CFR Part 72, 75, and 76. The applicable Acid Rain Permit is contained in the Acid Rain portion of this Operating Permit.	Rule 335-3-18 and 40 CFR Parts 72, 75, and 76
7.	Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions are incorporated as enforceable conditions of this permit.	Rule 335-3-1605(a)2
8.	These sources are subject to the applicable provisions of the Cross-State Air Pollution Rule found in ADEM Admin. Code r. 335-3-506 through 335-3-536 and ADEM Admin. Code r. 335-3-807 through 335-3-870.	Rules 335-3-506 through 335-3-536 and Rules 335-3-807 through 335-3-870

Fed	erally Enforceable Provisos	Regulations
Em	ission Standards	
1.	The nitrogen oxide (NO_x) emission rate from each combined turbine/duct burner stack shall not exceed 0.013 lb/MMBtu and 31.2 lb/hr. The nitrogen oxide emission rate shall be monitored using a rolling three-hour average computed by the continuous emission monitor system.	Rule 335-3-1404 BACT
2.	The NO_X emission rates from each combustion turbine shall not exceed 112 ppmvd at 15 percent O_2 .	40 CFR 60.332
3.	The carbon monoxide (CO) emission rate from each combined turbine/duct burner stack during power augmentation shall not exceed 0.1 lb/MM Btu and 232.0 lb/hr. When firing the combustion turbine only, the carbon monoxide emission rate from each combined turbine/duct burner stack shall not exceed 0.117 lb/MM Btu and 156.0 lb/hr.	Rule 335-3-1404 (BACT)
4.	The volatile organic compound (VOC) emission rate from each combined turbine/duct burner stack shall not exceed 0.0131 lb/MM Btu and 30.0 lb/hr.	Rule 335-3-1404 (BACT)
5.	The particulate matter (PM) emission rate from each combined turbine/duct burner stack shall not exceed $0.005\ lb/MM$ Btu and $11.0\ lb/hr$.	Rule 335-3-1404 (BACT)
6.	Visible emission from the combined turbine and duct burner stack shall not exceed 10% opacity.	Rule 335-3-1404 (BACT)
7.	No owner or operator shall burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8 percent by weight.	Rule 335-3-1002(34) 40 CFR 60 Subpart GG
8.	Exceptions to the Rules and Regulations for provisos 1-5 above are granted for startup, shutdown, load change, and maintenance as defined below:	Rule 335-3-401(c)
	(a) Startup – Exemptions due to startup shall cease 35-minutes after the combustion turbine meets the Department approved start-up point based on megawatts and an average flue gas temperature exiting the catalyst. The Department must approve in writing any change to the start-up point prior to modifying such point.	

Fed	erally Enforceable Provisos	Regulations
	(b) Shutdown – Exemptions due to shutdown shall commence upon initiation of shutdown or due to a failure of the unit.	
	(c) Load Change – Exemptions due to combustion turbine load change shall commence when the combustion turbine increases or decreases in load at a rate approved by the Department. The Department must approve in writing any change to the load rate point prior to modifying such point.	
	The permittee shall take all reasonable actions to minimize the magnitude and duration of emissions during the periods listed above.	
9.	All emission limits (lb/MMBtu) are base on the Higher Heating Value (HHV).	Rule 335-3-1404 (BACT)
10.	The turbines and duct burners shall fire only natural gas.	Rule 335-3-1404 (BACT)
11.	Each duct burner shall not combust more than 600,000 MMBTU of natural gas in any consecutive 12-month period.	Rule 335-3-1404 (BACT)
12.	Emissions exceeding any allowances that the source lawfully holds under Title IV of the Act or the regulations promulgated thereunder are prohibited.	Rule 335-3-1605(d)
13.	Except for periods of startup and shutdown, each turbine may operate at the lowest load for which the turbine has been verified by compliance tests to meet the emission standards in this section for carbon monoxide, nitrogen oxides and volatile organic compounds, provided that the owner or operator has completed ambient air modeling using the stack parameters at that load that confirms that all ambient air standards would be met.	Rule 335-3-1404 (BACT)
	The Department must approve in writing of any change to the lowest load of a turbine prior to operating at such load.	

Fed	lerally Enforceable Provisos	Regulations
Con	npliance and Performance Test Methods and Procedures	
1.	The continuous emissions monitor system (CEMS) required by Proviso 1 of the Emissions Monitoring section shall be used to determine compliance the NOx limits in Proviso 1 of the Emission Standards section. Method 20 of Appendix A in 40 CFR Part 60 may also be used to determine the nitrogen oxides and oxygen concentrations.	Rule 335-3-1002(33) 40 CFR 64.2(b)(1)(iv) 40 CFR 60.335(c)(3) Rule 335-3-1404 (BACT)
2.	The owner or operator shall determine compliance with the sulfur content standard in Proviso 6 of the Emission Standards Section as follows: ASTM D 1072-80 or 90 (Reapproved 1994), D 3031-81, D 4084-82 or 94, or D 3246-81, 92, or 96, or the latest editions, or in accordance with approved 40 CFR 75 methods shall be used for the sulfur content of gaseous fuels. The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the Administrator.	Rule 335-3-1002(33) 40 CFR 60.335(d)
3.	Method 9 of Appendix A in 40 CFR Part 60 shall be used to determine the opacity from the combined turbine and duct burner stacks.	Rule 335-3-105(1)
4.	Method 10 of Appendix A in 40 CFR Part 60 shall be used to determine the carbon monoxide emissions from the combined turbine and duct burner stacks.	Rule 335-3-105(1)
5.	Method 5 or 17 of Appendix A in 40 CFR Part 60 shall be used to determine the particulate matter emissions from the combined turbine and duct burner stacks.	Rule 335-3-105(1)
6.	Method 25, 25A, or 25B of Appendix A in 40 CFR Part 60 shall be used to determine the volatile organic compounds emissions from the combined turbine and duct burner stacks.	Rule 335-3-105(1)

Federally Enforceable Provisos

Regulations

7. Any performance tests required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific source is in compliance.

Rule 335-3-1-.05(1)

Emissions Monitoring

1. The continuous emissions monitoring system (CEMS) to measure nitrogen oxide emissions shall continue to be operated at a location approved by the Director. The nitrogen oxide emission rate shall be monitored using a rolling three-hour average computed by the continuous emission monitor system. The CEMS shall meet the specifications and procedures of 40 CFR Part 75 and will be certified and maintained in accordance with 40 CFR Part 75.

Rule 335-3-14-.04 (BACT) 40 CFR Part 75

Recordkeeping and Reporting Requirements

1. An excess emissions report for the combined turbine/duct burner stack as defined by 40 CFR Part 60, Subpart A, §60.7(c) and (d), will be submitted to the ADEM within 30 days of the end of each calendar quarter in the following format:

Rule 335-3-16-.05(c) 40 CFR 64.9

NOx:

- (A) Source Operating Time (all times and periods in hours)
- (B) Time Monitoring System was Able to Record Source Performance*
- (C) Monitor Availability (%) = $B/A \times 100$
- (D) Total Emissions Periods where the Monitoring System determines emissions are above standards**
- (E) Overall Source Performance (%) = $[(B D) / B] \times 100$
- (F) Exempt Periods (as applicable)- F (x)

- (1) F 1 = Startup/Shutdown
- (2) F 2 = Load Change
- (G) Net Excess Emissions = D $\sum F(x)$
- (H) Net Source Performance (%):

$$= [1 - (G/(B-\Sigma F(x)))] \times 100$$

$$= [(B - \Sigma F(x) - G) / (B - \Sigma F(x))] \times 100$$

- (I) Overall Exceedances (%) Percent of time above the standard due to all reasons:
 - $= (D /B) \times 100$
- (J) Net Exceedances (%) Percent of time above the standard due to non-exempt reasons:

$$= [(D - \sum F(x)) / B] \times 100$$

(K) Exempt Period Exceedances (%) - Percent of time above the standard due to an exempted reason

$$SU/SD = (F1 / B) \times 100$$

Load Change =
$$(F2 / B) \times 100$$

- * Information identifying each period during which the monitoring systems were inoperative (except for zero and span checks) and the nature of the system repairs or adjustments will be maintained and made available upon request.
- ** Report date, time, duration, magnitude, cause and corrective action taken for each occurrence.

NOTE: Data recorded during periods of system breakdowns, repairs, adjustments, and calibration checks shall not be included in any of the above data averages.

NOTE: Equations used to convert Monitoring System data as monitored to the required reporting standard will be provided with the first quarter report of each calendar year.

Fed	erally Enforceable Provisos	Regulations
Acid	l Rain Requirements	
1.	These units are subject to the Acid Rain rules contained in	Rule 335-3-18
	40 CFR Parts 72 and 75. Applicable Acid Rain permits as contained in the Acid Rain portion of this Operating Permit.	40 CFR Parts 72 and 75
CSA	PR Requirements	
1.	These units are subject to the applicable provisions of Cross-State Air Pollution Rule (CSAPR) to include all applicable provisions of the SO ₂ Group 2 Trading Program requirements.	Rules 335-3-506 through 335-3-536
2.	These units are subject to the applicable provisions of Cross-State Air Pollution Rule (CSAPR) to include all applicable provisions of the NOx Annual Trading Program requirements.	Rules 335-3-806 through 335-3-870