



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: ESCAMBIA OPERATING COMPANY, LLC

FACILITY NAME: FLOMATON/FANNY CHURCH OIL AND GAS PRODUCTION

FACILITY

FACILITY NO.: 502-0005

LOCATION: FLOMATON, ESCAMBIA COUNTY, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, <u>Ala. Code</u> 1975, §§22281 to 222823 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, <u>Ala. Code</u> 1975, §§2222A1 to 2222A15, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, 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 Date, April 9, 2020

Effective Date:

Expiration Date: June 8, 2020

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Fede	erally Enf	orceable Provisos	Regulations
1.	Transf	<u>er</u>	
	othei equip	permit is not transferable, whether by operation of law or rwise, either from one location to another, from one piece of oment to another, or from one person to another, except as ded in Rule 335-3-1613(1)(a)5.	Rule 335-3-1602(6)
2.	Renew	<u>rals</u>	
	mont	oplication for permit renewal shall be submitted at least six (6) ths, but not more than eighteen (18) months, before the date of ation of this permit.	Rule 335-3-1612(2)
	upon appli	cource for which this permit is issued shall lose its right to operate the expiration of this permit unless a timely and complete renewal cation has been submitted within the time constraints listed in the ous paragraph.	
3.	Severa	bility Clause	
	section permoder control contr	provisions of this permit are declared to be severable and if any on, paragraph, subparagraph, subdivision, clause, or phrase of this lit shall be adjudged to be invalid or unconstitutional by any court empetent jurisdiction, the judgment shall not affect, impair, or idate the remainder of this permit, but shall be confined in its ation to the section, paragraph, subparagraph, subdivision, clause, rase of this permit that shall be directly involved in the controversy nich such judgment shall have been rendered.	Rule 335-3-1605(e)
4.	Compl	<u>iance</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.	Rule 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.	Rule 335-3-1605(g)

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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.	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, 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.	Rule 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:	Rule 335-3-1607(b)

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	(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.	Compli	ance 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.	<u>Compli</u>	ance Certification	
	On or subm	before August 8 th of each year, a compliance certification shall be itted.	Rule 335-3-1607(e)
	(a)	The compliance certification shall include the following:	
		(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;	

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		(5)	Such other facts as the Department may require to determine the compliance status of the source;	
	(b)	The c	ompliance certification shall be submitted to:	
	A	Alabama		
			and to:	
			Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303	
13.	Reoper	ning for	<u>Cause</u>	
	Under any of the following circumstances, this permit will be reopened 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)	the a	ional requirements (including excess emissions rements) become applicable to an affected source under cid rain program. Upon approval by the Administrator, is emissions offset plans shall be deemed to be porated into this permit.	
	(c)	mate estab	Department or EPA determines that this permit contains a rial mistake or that inaccurate statements were made in lishing the emissions standards or other terms or itions of this permit.	
	(d)	perm	Administrator or the Department determines that this it must be revised or revoked to assure compliance with pplicable requirements.	

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14.	Additio	onal Rule	es and Regulations	
	the da	permit is ate of is ted, it sl rules.	§22-28-16(d), Code of Alabama 1975, as amended	
15.	<u>Equipm</u>	nent Ma	intenance or Breakdown	
	(a)	(whice for no such twent such which	e case of shutdown of air pollution control equipment the operates pursuant to any permit issued by the Director) ecessary scheduled maintenance, the intent to shut down equipment shall be reported to the Director at least ty-four (24) hours prior to the planned shutdown, unless shutdown is accompanied by the shutdown of the source in such equipment is intended to control. Such prior notice include, but is not limited to the following:	Rule 335-3-107(1), (2)
		(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)	of proincrea applic shall i and p estim	e event that there is a breakdown of equipment or upset ocess in such a manner as to cause, or is expected to cause, ased emissions of air contaminants which are above an cable standard, the person responsible for such equipment notify the Director within 24 hours or the next working day provide a statement giving all pertinent facts, including the nated duration of the breakdown. The Director shall be ed when the breakdown has been corrected.	

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16.	<u>Operati</u>	Operation of Capture and Control Devices		
	permi mann Proce and m	t is issu er so a dures fo	on control devices and capture systems for which this ed shall be maintained and operated at all times in a as to minimize the emissions of air contaminants. It rensuring that the above equipment is properly operated ed so as to minimize the emission of air contaminants shall display.	§22-28-16(d), Code of Alabama 1975, as amended
17.	<u>Obnoxi</u>	ous Odo	<u>ors</u>	
	arising measu deteri	g from thures to mination gement	issued with the condition that, should obnoxious odors ne plant operations be verified by Air Division inspectors, abate the odorous emissions shall be taken upon a by the Alabama Department of Environmental that these measures are technically and economically	Rule 335-3-108
18.	Fugitive	<u>Dust</u>		
	(a)	from p	utions shall be taken to prevent fugitive dust emanating plant roads, grounds, stockpiles, screens, dryers, hoppers, ork, etc.	Rule 335-3-402
	(b)	follow minim shall b	or haul roads and grounds will be maintained in the ring manner so that dust will not become airborne. A num of one, or a combination, of the following methods be utilized to minimize airborne dust from plant or haul 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;	
	(c)	adequ	d one, or a combination, of the above methods fail to lately reduce airborne dust from plant or haul roads and ds, alternative methods shall be employed, either	

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		contro Altern	sively or in combination with one or all of the above of techniques, so that dust will not become airborne. native methods shall be approved by the Department prior lization.	
19.	Additio	ons and I	Revisions	
	-		tions to this source shall comply with the modification Rules 335-3-1613 or 335-3-1614.	Rule 335-3-1613 and .14
20.	Record	lkeeping	Requirements	
	(a)		ds of required monitoring information of the source shall le 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)	suppo from t or app maint contir	tion of records of all required monitoring data and ort information of the source for a period of at least 5 years the date of the monitoring sample, measurement, report, plication. Support information includes all calibration and renance records and all original strip-chart recordings for muous monitoring instrumentation and copies of all ts required by the permit	
21.	Report	ing Requ	<u>uirements</u>	
	(a)	submi from repor	Its to the Department of any required monitoring shall be itted at least every 6 months. All instances of deviations permit requirements must be clearly identified in said ts. All required reports must be certified by a responsible all consistent with Rule 335-3-1604(9).	Rule 335-3-1605(c)3

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	(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.	Emissic	on Testing Requirements	
	(a)	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.	Rule 335-3-104(1)
	(b)	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 contro rules and regulations. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:	Rule 335-3-104 Rule 335-3-104(1)
		(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.	
		(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 media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).	
		(3) A description of the process(es) to be tested including the feed rate, any operating parameters used to contro or influence the operations, and the rated capacity.	
		(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	
	(c)	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.	

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	(d) A	Il 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>Payme</u>	ent of Emission Fees	
		tal emission fees shall be remitted each year according to the feedule in ADEM Admin. Code R. 335-1-704.	Rule 335-1-704
24.	Other	Reporting and Testing Requirements	
	analy as au	nission of other reports regarding monitoring records, fuel rees, operating rates, and equipment malfunctions may be required uthorized in the Department's air pollution control rules and ations. The Department may require emission testing at any time.	Rule 335-3-104(1)
25.	Title V	I Requirements (Refrigerants)	
	cond subst shall work	facility having appliances or refrigeration equipment, including air itioning equipment, which use Class I or Class II ozone-depleting cances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, service, repair, and maintain such equipment according to the practices, personnel certification requirements, and certified cling and recovery equipment specified in 40 CFR Part 82, Subpart	40 CFR Part 82
	II su main	erson shall knowingly vent or otherwise release any Class I or Class bstance into the environment during the repair, servicing, tenance, or disposal of any device except as provided in 40 CFR 82, Subpart F.	
	recor	responsible official shall comply with all reporting and dkeeping requirements of 40 CFR 82.166. Reports shall be nitted to the US EPA and the Department as required.	
26.	Chemi	cal Accidental Prevention Provisions	
		chemical listed in Table 1 of 40 CFR Part 68.130 is present in a less in quantities greater than the threshold quantity listed in Table en:	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:	
			1

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		(1)	A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in §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 Perm	<u>nit</u>	
	where made	the fac	nall be kept under file or on display at all times at the site cility for which the permit is issued is located and will be available for inspection by any or all persons who may e it.	Rule 335-3-1401(1)(d)
28.	Circumy	ention		
	any mo	eans wh ntamina ninant	all cause or permit the installation or use of any device or nich, without resulting in reduction in the total amount of ant emitted, conceals or dilutes any emission of air which would otherwise violate the Division 3 rules and	Rule 335-3-110
29.	<u>Visible E</u>	missio	<u>ns</u>	
	any so 6-minu no tin particu 40 CFF	urce of ute aver ne shall ulate en R Part 60	vise specified in the Unit Specific provisos of this permit, particulate emissions shall not discharge more than one rage opacity greater than 20% in any 60-minute period. At I any source discharge a 6-minute average opacity of nissions greater than 40%. Opacity will be determined by 0, Appendix A, Method 9, unless otherwise specified in the provisos of this permit.	Rule 335-3-401(1)
30.	Fuel-Bu	rning Ed	quipment	
	(a)	permi	s otherwise specified in the Unit Specific provisos of this t, no fuel-burning equipment may discharge particulate ions in excess of the emissions specified in Rule 335-3-4-	Rule 335-3-403
	(b)	permi	s otherwise specified in the Unit Specific provisos of this t, no fuel-burning equipment may discharge sulfur dioxide ions in excess of the emissions specified in Rule 335-3-5-	Rule 335-3-501

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31.	Process	s Industi	ries – General	
	no p	rocess r	vise specified in the Unit Specific provisos of this permit, may discharge particulate emissions in excess of the cified in Rule 335-3-404.	Rule 335-3-404
32.	Averag	ing Time	e for Emission Limits	
	emiss	sion limit	wise specified in the permit, the averaging time for the is listed in this permit shall be the nominal time required it test method.	Rule 335-3-105
33.	Compli	ance As	surance Monitoring (CAM)	
	to em requi	nissions (rements	through (d) that follow are general conditions applicable units that are subject to the CAM requirements. Specific related to each emissions unit are contained in the unit sos and the attached CAM appendices.	
	(a)	Opera	ation of Approved Monitoring	40 CFR 64.7
		(1)	Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).	
		(2)	Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.	
		(3)	Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability	

GENERAL PERIVIT PROVISOS					
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	requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.				
(4)	Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.				
(5)	Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or				

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		docur range shall p submi addre modif reesta condit monit	esults of compliance or performance testing ment a need to modify the existing indicator is or designated conditions, the owner or operator promptly notify the Department and, if necessary, it a proposed modification to the permit to it a proposed modification to it a proposed modifi	
(b)	Qualit	y Impro	vement Plan (QIP) Requirements	40 CFR 64.8
	(1)	Section permit to der CFR § thresh excurs specific period thresh may r wheth maint	on the results of a determination made under on 33(a)(4)(b) above, the Administrator or the ting authority may require the owner or operator velop and implement a QIP. Consistent with 40 64.6(c)(3), the permit may specify an appropriate hold, such as an accumulation of exceedances or sions exceeding 5 percent duration of a pollutantic emissions unit's operating time for a reporting d, for requiring the implementation of a QIP. The hold may be set at a higher or lower percent or rely on other criteria for purposes of indicating her a pollutant-specific emissions unit is being ained and operated in a manner consistent with air pollution control practices.	
	(2)	Eleme	ents of a QIP:	
		A.	The owner or operator shall maintain a written QIP, if required, and have it available for inspection.	
		В.	The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:	

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	(i)	Improved preventive maintenance practices.	
	(ii)	Process operation changes.	
	(iii)	Appropriate improvements to control methods.	
	(iv)	Other steps appropriate to correct control performance.	
	(v)	More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).	
(3)	and implement and shall not completing the exceeds 180 d	ired, the owner or operator shall develop nt a QIP as expeditiously as practicable tify the Department if the period for ne improvements contained in the QIP lays from the date on which the need to e QIP was determined.	
(4)	subsequent 33(a)(4)(b) abo	plementation of a QIP, upon any determination pursuant to Section ove, the Department may require that an ator make reasonable changes to the QIP und to have:	
		to address the cause of the control e performance problems; or	
	correc proble accord	to provide adequate procedures for cting control device performance cms as expeditiously as practicable in dance with good air pollution control ces for minimizing emissions.	
(5)	operator of a semission limitoring, requirement to	on of a QIP shall not excuse the owner or source from compliance with any existing itation or standard, or any existing testing, reporting or recordkeeping that may apply under federal, state, or any other applicable requirements under	

Federally Enfo	orceable	Regulations			
(c)	Repo	rting and	Record	40 CFR 64.9	
	(1)	Gener	al repor	ting requirements	
		A.	33(a)(must requir opera permi	nd after the date specified in Section (1) above by which the owner or operator use monitoring that meets the rements of this part, the owner or tor shall submit monitoring reports to the atting authority in accordance with ADEM in Code R. 335-3-1605(c)3.	
		В.	includ requir	ort for monitoring under this part shall le, at a minimum, the information red under ADEM Admin. Code R. 335-3-6(c)3. and the following information, as table:	
			(i)	Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;	
			(ii)	Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and	
			(iii)	A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.	
	(2)	Gener	al recor	dkeeping requirements.	

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	A.	The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-1605(c)2 The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).					
	В.	Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.					
(d)	Savings Provis	sions	40 CFR 64.10				
	(1) Nothi	ng in this part shall:					
	A.	Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a					

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	permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.						
В.	Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.						
C.	Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.						
4. <u>Permit Shield</u>							
ADEM Admin. Code 3 of this permit shall requirements as of the based on the accuracy this permit. Under	s under this operating permit in accordance with 35-3-1610 in that compliance with the conditions be deemed in compliance with any applicable he date of permit issuance. The permit shield is y of the information supplied in the application for er this shield, it has been determined that as non-applicable in the application are not rce.	Rule 335-3-1610					

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SUMMARY PAGE FOR FACILITY FLARE

Permitted Operating Schedule: **24** Hours/Day x **365** Days/Year = **8,760** Hours/Year

Emission Limitations:

Emission Point	DESCRIPTION	POLLUTANT	EMISSION LIMIT	REGULATIONS
Sources:				
LP/HP Flare; w/ clo	osed vent system	H₂S	Burn gas with 0.10 grains or more of H_2S/Scf	Rule 335-3-503(1)
			Burn gas to maintain the offsite concentration at 20 ppbv or less	Rule 335-3-503(2)
		Opacity	No more than one 6-minute average > 20%; Except one 6- minute average during a 60- minute period, opacity shall not exceed > 40%	Rule 335-3-401(1)(a), (b)
		SO₂	1,000 Tons per 12 months	Rule 335-3-1409 [Anti-PSD Limits]

EMISSION SOURCES CONTROLLED BY THE FLARE:

T6000-400 BBL Produced Water Storage Tank

T6100-280 BBL Gun Barrel Storage Tank

T6200-100 BBL Slop Oil Storage Tank

Produced Water & Slop Oil Truck Loading

Compressor Seal Gas

Pressurized Condensate Vessel

Upset Flaring Events

Feder	rally En	forceable Provisos	Regulations		
Applic	ability				
1.	Admir	rocess flare shall be subject to the applicable requirements of ADEM n. Code R. 335-3-401, "Visible Emissions" for Control of Particulate ions and the applicable requirements specified in this subpart of this t.	Rule 335-3-401(1)(a) and (b)		
2.	grains subject .03, "I	facility that handles gas or refinery gas that contains more than 0.10 of hydrogen sulfide (H_2S) per standard cubic foot (Scf) shall be at to the applicable requirements of ADEM Admin. Code R. 335-3-5-Petroleum Production" and the applicable requirements specified in abpart of this permit.	Rule 335-3-503(1)		
3.	ADEN Deteri	is a facility-wide limit in place in order to avoid a review under Admin. Code R. 335-3-1404, "Prevention of Significant ioration (PSD) Permitting". The facility shall be subject to the able requirements found in this subpart of this permit.	Rule 335-3-1404 [Anti-PSD Limit]		
4.	Admir	rocess flare shall be subject to the applicable requirements of ADEM n. Code R. 335-3-1603, "Major Source Operating Permits" and the able requirements specified in this subpart of this permit.			
5.	Part 6	rocess flare shall be subject to the requirements specified in 40 CFR 4, "Compliance Assurance Monitoring" [CAM] as indicated in proviso the General Permit Provisos subpart and in this subpart of this t.	40 CFR Part 64		
Emissi	ion Stan	dards			
1.	•	rocess flare shall meet the opacity standards specified in provisos nd (b) of this section of this subpart.			
	(a)	Except as allowed in proviso (1)(b) of this section of this subpart, the process flare shall not discharge into the atmosphere, particulate of an opacity greater than that designated as twenty percent (20%) opacity, as determined by a six (6) minute average.	Rule 335-3-401(1)(a)		
	(b)	During one six (6) minute period in any sixty (60) minute period, the process flare may discharge into the atmosphere, particulate of an opacity not greater than that designated as forty percent (40%) opacity.	Rule 335-3-401(1)(b)		
2.	proce sulfide prope	t as is provided for in proviso 2(a) of this section of this subpart, each ss gas stream containing more than 0.10 of a grain of hydrogen e per Scf shall not be emitted into the atmosphere unless it is rly burned to maintain the ground level concentrations of hydrogen e to less than twenty (20) parts per billion beyond plant property	Rule 335-3-503(2)		

Fede	rally En	forceable Provisos	Regulations
	limits	, averaged over a thirty (30) minute period.	
	(a)	Provided vessels or equipment are being de-pressured and/or emptied and the reduced pressure will not allow flow of the process gas stream to the combustion device, the venting to the atmosphere of any gas stream shall be allowed, but the duration of the venting shall not exceed 15 continuous minutes.	
	(b)	A spark or flame shall be present at the flare tip at all times that a sour gas stream may be sent to the flare.	
	(c)	The H_2S feed rate to the flare shall not exceed 500 lbs/hr. unless otherwise approved by the Department.	
	(d)	The tanks, compressor seals, and loading operations shall be equipped with a closed vent system that routes vapors to the facility flare for combustion.	
3.		Dioxide (SO_2) emissions shall not exceed 1,000 Tons per twelve (12) ecutive months.	Rule 335-3-1404 [Anti-PSD Limit]
Comp	oliance a	nd Performance Test Methods and Procedures	
1.	Meth emiss	od 9 of 40 CFR 60 Subpart A to determine opacity from the flare OR od 22 of 40 CFR 60 Subpart A to determine the duration of visible ions from the flare, OR other approved methods shall be used to mine emissions from the flare when required.	Rule 335-3-401(2)
2.	proce	process gas stream, including tank vapors that can be sent to the ss flare shall be tested in accordance with the following rements:	Rule 335-3-1605
	(a)	A sample of each process gas stream that can be sent to the flare shall be collected and analyzed to determine the H_2S content of each gas stream utilizing one of the following methods:	
		(1) Chromatographic analysis procedures found in ASTM E- 260	
		(2) Stain tube procedures found in GPA 2377-86 or those provided by the stain tube manufacturer.	
		(3) Other methods approved by the Department	
		[H ₂ S Content (Mole %)]	
	(b)	A sample of each process gas stream that can be sent to the flare shall be collected and analyzed to determine the volatile organic compound (VOC) molecular weight, Btu content, and the	

	ally Ento	rceable	e Provisos	Regulations
			ular weight of each process gas stream utilizing one of the ng methods:	
		(1)	ASTM Analysis Method D1826-77	
		(2)	Chromatographic analysis procedures found in 40 CFR Part 60 Appendix A, Method 18	
		(3)	Other methods approved by the Department	
			[Stream Mol Wt. (lb/lb-Mol)]	
			[Stream VOC Mol Wt. (lb/lb-Mol)]	
			[Stream Heat Content (Btu/Scf)]	
Emissi	on Monito	oring		
1.	process	flare sh	surance Monitoring (CAM) and Periodic Monitoring for the hall be met by complying with the requirements specified "Process Flare Monitoring".	Rule 335-3-104 Rule 335-3-1605(c)(1)(ii) 40 CFR §64.6(b) & (c)
2.	than the	pilot g by cor	visible emissions are observed when a gas stream other gas stream is routed to the flare, opacity monitoring shall mplying with the requirements specified in Appendix B, toring for Process Flare.	Rule 335-3-401(2)
3.	Each pro	ocess e	gas stream that can be sent to the flare shall be tested	Rule 335-3-1605(c)(1)(ii
	-	_	e following requirements:	
-	accordir	ng to the Testing one rep	re following requirements: g for the H ₂ S content shall consist of capturing and analyzing presentative sample of the stream at a frequency of no less nice every 12 months.	
	accordir (a) (b)	Testing one rep than or Testing weight, consist	g for the H ₂ S content shall consist of capturing and analyzing presentative sample of the stream at a frequency of no less nice every 12 months. g for the volatile organic compound (VOC) molecular, BTU heat content, and stream molecular weight shall to fapturing and analyzing one representative sample of eam at a frequency of no less than once each twelve (12)	
	accordir (a) (b)	Testing one repthan or Testing weight, consist the streemonths Provide is possi	g for the H ₂ S content shall consist of capturing and analyzing presentative sample of the stream at a frequency of no less nice every 12 months. g for the volatile organic compound (VOC) molecular, BTU heat content, and stream molecular weight shall to fapturing and analyzing one representative sample of eam at a frequency of no less than once each twelve (12)	

Fede	erally En	forceable Provisos	Regulations
Reco	rd Keepi	ng and Reporting Requirements	
1.	The f	ollowing monthly records shall be maintained:	Rule 335-3-1404 [Anti-PSD Limit] Rule 335-3-1605(c)(1)(ii)
	(a)	Volume of Gas Burned in Flare	
		[Stream Volume Burned (MScf/Month)]	
	(b)	SO ₂ emissions	
		[(Tons/Month, Tons/12 consecutive months)]	
		(1) Stream H ₂ S (lbs/Month) =	
		[Volume Flared (MScf/Month)] X {1 Mole/0.380 MScf} X [Stream H_2S Content (Mol% H_2S)/100] X [34 Lbs H_2S /Mol% H_2S]	
		(2) Stream H ₂ S (lbs/Hr) =	
		Flare H ₂ S Feed Rate (lbs/Month) Operating Hours (Hrs/Month)	
	(c)	Number of Hours Flare Operated	
		[Hours (Hrs/Month, Hrs/12 consecutive months)]	
	(d)	Records of each daily visual inspection of the flare tip for the presence of a spark or flame.	
	(e)	Records of each daily visual inspection of the flare for visible emissions.	
	(f)	Record of each occurrence when a visible emission observation was conducted on the flare.	
	(g)	Record of the date, starting time and duration of each deviation from the requirements specified in this permit along with the cause and corrective actions taken.	
	(h)	A record for emissions (tons per year) determination of all applicable regulated pollutants shall be maintained for Title V reporting purposes.	
2.	in pr	iodic Monitoring Report (PMR) meeting the requirements specified ovisos 2(a) through (c) of this section of this subpart shall be itted to the Department.	Rule 335-3-104 Rule 335-3-1605(c)(2) Rule 335-3-1605(c)(3)(i) 40 CFR §64.9(a)

Federally Enforceable Provisos Regulations								
recerally Ent	orceabl	e riuvisus	Regulations					
(a)	term o	port shall identify each incidence of deviation from a permit or condition including those that occur during startups, owns, and malfunctions.						
	(1)	A deviation shall mean any condition determined by observation, by data derived from any monitoring or testing or recordkeeping which is required by the permit that can be used to determine or indicate compliance, that identifies an affected source has failed to meet an applicable emission limit or standard or that a work practice was not complied with or completed.						
	(2)	If no deviation event occurred during the reporting period, a statement that indicates there were no deviations from the permit requirements shall be included in the report.						
(b)	shall in	as provided for in proviso 2(d) of this section, the report clude the requirements specified in proviso 2(b)(1) through r each deviation event.						
	(1)	Emission source description						
	(2)	Permit requirement						
	(3)	Date						
	(4)	Starting time						
	(5)	Duration						
	(6)	Actual quantity						
	(7)	Cause						
	(8)	Action taken to return to compliance						
	(9)	Total operating hours of the affected source during the reporting period						
	(10)	Total hours of deviation events during the reporting period						
	(11)	Total hours of deviation events that occurred during startups, shutdowns, and malfunctions during the reporting period						
(c)		MR shall cover a calendar semi-annual period and shall be ted to the Department on the following reporting						

Fede	rally En	forceable Provisos	Regulations
		schedule:	
		Reporting Period Submittal Date	
		January 1 through June 30 July 31	
		July 1 through December 31 January 31	
	(d)	The contents of the reports may be modified upon receipt of Departmental approval.	
3.	Each deviation, including those that occur during startups, shutdowns, and malfunctions, shall be report to the Department in a manner that complies with proviso 15(b) and 21(b) of the general proviso subpart of this permit and §71.6(a)(3)(iii)(B) of 40 CFR Part 71.		Rule 335-3-1605(c)(3)(ii) 40 CFR §64.7(d)(2) §71.6(a)(3)(iii)(B)

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SUMMARY PAGE FOR RECIPROCATING COMPRESSORS

Permitted Operating Schedule: **24** Hours/Day x **365** Days/Year = **8,760** Hours/Year

Emission Limitations:

Emission Point	DESCRIPTION	POLLUTANT	EMISSION LIMIT	REGULATIONS
Electric Driven Reciprocating Compressor (COMP1)		VOC	Work Practice	§60.5365(c) [NSPS Quad O]

PROVISOS FOR COMPRESSORS

Fede	rally En	forceable Provisos	Regulations
Appli	icability		
1.	Admi	ompressor shall be subject to the applicable requirements of ADEM n. Code R. 335-3-1603, "Major Source Operating Permits" and the cable requirements specified in this subpart of this permit.	Rule 335-3-1603
2.	The compressor is subject to 40 CFR 60 Subpart OOOO "Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution" [NSPS Quad O] and the requirements of this subpart of this permit.		§60.5365(c)
3.	The compressor is subject to the applicable requirements of 40 CFR Part 60 Subpart A, "General Provisos" [Subpart A], as provided in Table 3 of 40 of NSPS Quad O.		§60.5425
Emis	sion Sta	ndards	
1.	The Permittee shall meet one of the following standards to comply with NSPS Quad O:		
	(a)	Replace the compressor rod packing 36 months from the date of the most recent rod packing replacement.	§60.5385(a)(2)
	(b)	Nothing in the permit shall preclude the Permittee from complying with any other emissions standards under this subpart provided that the Department receives prior notification.	§60.5385
Emis	sion Mo	nitoring	
1.	The Permittee has elected to comply with the requirement to continuously monitor the number of months since the last rod packing replacement was conducted on the reciprocating compressor. §60.5410(c) §60.5415(c)(1)		1
Com	oliance d	and Performance Test Methods and Procedures	
1.	No te	esting is required for reciprocating compressors under NSPS Quad O.	
Reco	rd Keepi	ing and Reporting Requirement	
1.		Following records shall be maintained to demonstrate compliance NSPS Quad O:	§60.5415(c)(2) §60.5420(c)(3)
	(a)	Records of the cumulative number of months since the previous replacement of the reciprocating compressor rod packing	
	(b)	Records of the date and time of each reciprocating compressor rod packing replacement	

PROVISOS FOR COMPRESSORS

Federally Enforceable Provisos			Regulations
	(c)	Records of deviations in cases where the reciprocating compressor was not operating in compliance with the requirements specified in §60.5385	
	(d)	General information specified in §60.5420(b)(1)(i) through (iv)	
	(e)	Records of deviations specified in §60.5420(c)(3)(iii) of subpart OOOO that occurred during the reporting period	
2.		nnual report, containing the applicable requirements specified in 420(b)(1) through (6), is due by no later January 13 each year.	§60.5415(c)(2) §60.5420(b)
	(a)	Reports may coincide with Title V reports as long as all the required elements of the annual report are included.	
	(b)	A common schedule on which reports may be submitted can be arranged as long as the schedule does not extend the reporting period.	
3.		cords required by this subpart must be maintained either onsite or nearest local field office for at least 5 years.	§60.5420(c)

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APPENDIX A- PROCESS FLARE MONITORING

PROCESS FLARE MONITORING

Monitoring approach:	Periodic Monitoring	Compliance Assurance Monitoring
I. Indicator	H ₂ S feed rate	Operate process flare with a flame or spark present at all times when a process gas stream can be routed to the flare
A. Measurement approach	Inlet feed volume shall be monitored with a system capable of measuring and recording the flow rate and/or the parameters utilized for flow rate	The flare tip shall be equipped either with a continuous sparking flame igniter that is monitored by an amp meter or an equivalent device
	calculation or estimated utilizing material balances, computer simulations, special testing, etc.	OR
		Equipped with a continuously burning pilot light that is monitored with either a thermocouple or an equivalent device
		OR
		A daily visual inspection of the flare shall be conduct to determine the presence or absence of a spark or flame at the flare tip
II. Indicator range	H ₂ S feed rate of less than or equal to 500 lbs/Hr	Presence of a flame or spark at flare tip
	A deviation is defined as anytime the daily $\rm H_2S$ feed rate is greater than 500 lbs/Hr	A deviation is defined as when there was no spark or flame present at the flare tip when a process gas stream could be vented to it
	A deviation triggers an immediate inspection, corrective action, and reporting within 48 hours or two work days	A deviation triggers an immediate inspection, corrective action, and reporting within 48 hours or two work days
A. QIP threshold	Not applicable	If more than 6 deviations occur during any semi-annual reporting period, a Quality Improvement Plan (QIP) shall be developed and implemented
III. Performance criteria		
A. Data representiveness	Each volume monitor shall be located upstream of the process flare and shall consist of a single device that monitors all streams or multiple devices that monitor individual or multiple stream.	Each flame igniter or flame monitor shall be located at the flare tip and focused on the area where gas exits the flare tip
	The volume sensor shall be accurate to within 2% of span or 5% of design flow rate	Visual inspections shall be made from the location that provides the best view of the flare tip and/or flare pilot lights or flare igniter
	The sample point for $\rm H_2S$ content shall be located downstream of where the various gas processing streams combine prior to entry into the process flare.	
B. Verification of operational status	Not applicable	Not applicable

PROCESS FLARE MONITORING

Monitoring approach:	Periodic Monitoring	Compliance Assurance Monitoring
C. QA/QC practices & criteria	Each volume monitor shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent	Each flame igniter or flame monitor shall be maintained and calibrated in accordance with the manufacturer's specifications, other written procedures that provide adequate assurance that the device is properly maintained and calibrated accurately, or at least annually, whichever is more frequent
	If the monitor fails its calibration tests, the monitor shall be taken out of service until repairs and/or replacements are made and a new calibration test is undertaken and passed	Repairs and/or replacements shall be made immediately when non- functioning or damaged parts are found
		Flame igniter arc length shall not exceed 10% of arc interval and shall have an arcing frequency of no greater than once every 3 seconds
D. Monitoring frequency	Inlet volume measured continuously	Pilot flame shall be monitored either continuously with a thermocouple or by performing a daily visual inspection of the flare when process gas is being sent to it for combustion
		Flame igniter -arcing frequency shall be monitored either continuously with an amp meter or by performing a daily visual inspection of the flare when process gas is being sent to it for combustion
Data collection procedure	Calculate &/or record an inlet volume that is representative of the average daily volume entering the process flare	Record time, date and duration of each incident of when no spark or flame was present at the flare tip when a process gas stream could have been sent to it and corrective actions taken
	Record daily hours of operation for the process flare	Record time, date and results of each daily visual inspection of the flare for presence or absence of spark of flame
	Record each H ₂ S concentration analysis	Record time, date and results of each calibration
	Calculate & record H ₂ S and SO ₂ emissions monthly	Record time, date and results of each inspection and corrective actions taken
	Record calibration results	
	Record inspection results, corrective and actions taken	
Averaging period	24 hour	Daily

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APPENDIX B-OPACITY MONITORING FOR PROCESS FLARE

OPACITY MONITORING FOR FACILITY FLARE

Monitoring approach:	Periodic Monitoring		
Indicator A. Measurement approach	Opacity If the facility flare is being utilized to burn a gas stream other than the pilot light fuel gas stream, a daily visual inspection of the flare shall be conducted to determine the presence or absence of visible emissions. The flare shall be monitored using an opacity monitor that continuously records the opacity, by manually conducting a visual inspection of the flare during daylight hours, or by using an equivalent device as approved by the Department (i.e. using a flare camera).		
	If at any time visible emissions occur in excess of the opacity standards or any smoke emissions are observed from the flare, a visual emission observation (VEO) or a visual smoke determination shall be undertaken to determine opacity or to determine the duration of smoke emissions from the flare. The VEO or visual smoke determination shall be conducted as follows:		
	Duration of each VEO shall be:		
	>= 15 minutes		
	AND		
	<= 120 minutes		
	Duration for each visual smoke determination shall be at least 12 minutes		
	Each observation shall be conducted in accordance to either:		
	Test Method 9 of 40 CFR Part 60, Appendix A (this method should be conducted by an observer that is certified using this method)		
	OR Test Method 22 of 40 CER Part 60. Appendix A (this method should be conducted by an observer familiar with this		
	Test Method 22 of 40 CFR Part 60, Appendix A (this method should be conducted by an observer familiar with this method and its procedure)		
	Each visual inspection, VEO, and visual smoke emission determination must be conducted during daylight hours.		
II. Indicator range	No 2 nd 6-minute opacity average > 20% No 6-minute opacity average > 40%, except one 6-minute average in a 60-minute period OR		
	Accumulated time that opacity is > 0% shall not exceed 12 minutes		
	A deviation is defined as anytime the observed 6-minute average opacity exceeds 20% for the 2 nd time when utilizing Method 9.		
	A deviation is defined as anytime the observed 6-minute average opacity exceeds 40% for the 1st time when utilizing Method 9.		
	A deviation is defined as anytime the accumulated time in which smoke emissions were observed exceeds 12 minutes per observation when utilizing Method 22.		
	A deviation triggers a continued VEO at a frequency suitable to defining the duration of the visible emission deviation event. One observation shall be undertaken to establish the end of the visible emission deviation event. A deviations of smoke emissions for greater than 12 minutes triggers the end of the observation period.		
	A deviation triggers an immediate inspection, corrective action, and reporting within 48 hours or two workdays.		
A. QIP threshold	Not applicable		
III. Performance criteria			
A. Monitoring frequency Daily visual inspection of the flare; Each occurrence of a VEO conducted or visual smoke determ			
Data collection procedure	Record: Time, date and results of each manual visual inspection of the flare		
	Each 15 second observation reading when a VEO is conducted		
	Each 12-minute observation period in which smoke emissions are observed from the flare		
	Time, date and results of corrective actions taken when a VEO is conducted		
Averaging period	Six minutes		
Averaging period	3X minutes		