

State of Mississippi



# FEDERALLY ENFORCEABLE AIR POLLUTION CONTROL PERMIT

# Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

THIS CERTIFIES Delta-Energy Natchez LLC 61A Carthage Point Road Natchez, MS Adams County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with the Federal Clean Air Act and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. set., Mississippi Code of 1972), the regulations and standards adopted and promulgated thereunder, and the State Implementation Plan for operating permits for synthetic minor sources.

# Mississippi Environmental Quality Permit Board



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#### Delta Energy Natchez LLC Subject Item Inventory Permit Number:0040-00059 Activity ID No.: PER20150002

## **Subject Item Inventory:**

ID	Designation	Description
AREA1	AA-000	Facility-wide Requirements
CONT1	AA-001	Pulse Jet Baghouses - one controlling PM emissions from each jet mill and carbon solids handling areas and one controlling PM emissions from each pellet dryer
CONT2	AA-002	Non-assisted Flare controlling VOC emissions from the liquids condensing system and truck loading
EQPT1	AA-003	16,800-gallon Fixed-Roof Hydrocarbon Liquids Storage Tanks, each equipped with a vapor recovery system
EQPT2	AA-004	Carbon Solids Pellet Dryers, with emissions from each routed to a dedicated baghouse (AA-001)
EQPT3	AA-005	Truck and rail car loading of hydrocarbon liquids
AREA2	AA-006	Fugitive PM from road traffic and fugitive VOCs from equipment leaks
AI68507	68507	Waste tire chip processing plant

KEY	
ACT = Activity	AI = Agency Interest
AREA = Area	CAFO = Concentrated Animal Feeding Operation
CONT = Control Device	EQPT = Equipment
IA = Insignificant Activity	IMPD = Impoundment
MAFO = Animal Feeding Operation	PCS = PCS
RPNT = Release Point	TRMT = Treatment

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**KEY** WDPT = Withdrawal Point

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#### AREA000000001 (AA-000) Facility-wide Requirements:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1		The permittee shall limit the throughput of waste tire chips processed at the facility to 192 tons per day. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]
L-2		The permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Rule 1.3.A.(1). This shall not apply to vision obscuration caused by uncombined water droplets. [11 Miss. Admin. Code Pt. 2, R. 1.3.B.]
Decord	Kaaning Daguiramonts:	

Record-Keeping Requirements:

Condition No.	Condition
R-1	The permittee shall monitor and record the amount of waste tire chips processed each day. This amount shall be recorded in tons for each calendar day. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]

Submittal/Action Requirements:

Condition No.	Condition
S-1	In accordance with Condition S-1 for AI 68507, the permittee shall submit a certification of construction upon completion of each process line. [11 Miss. Admin. Code Pt. 2, R. 2.5.D.]

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# CONT000000001 (AA-001) Pulse Jet Baghouses - one controlling PM emissions from each jet mill and carbon solids handling areas and one controlling PM emissions from each pellet dryer:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1		The permittee shall route emissions from each pellet dryer, each jet mill, and each carbon solids handling area to one or more baghouses for control of particulate emissions. Each baghouse shall be operated at all times when the carbon solids processing equipment is being operated. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]

## Monitoring Requirements:

Condition No.	on Parameter	Condition
M-1		For Emission Point AA-001, the permittee shall install, operate, and maintain a system for continuously monitoring the pressure drop across each baghouse. The monitoring system shall be operated and maintained in accordance to the manufacturer's specifications. Each baghouse shall also be equipped with an alarm system such that facility personnel are notified if the pressure drop falls out of the range recommended by the baghouse manufacturer. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]
Record	d-Keeping Requirements:	

Condition No.	Condition
R-1	For Emission Point AA-001, the permittee shall record the date, time, and duration that (1) any baghouse operates outside the manufacturer's recommended pressure drop range and (2) carbon solids processing occurs while the associated baghouse is inoperable. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]
R-2	For Emission Point AA-001, the permittee shall maintain the manufacturer's recommended operating procedures on site and make such available to DEQ personnel upon request. The permittee shall also record the date and extent of all maintenance activities on each baghouse (including bag replacement, monitoring system calibration, etc.). [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]

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#### CONT000000002 (AA-002) Non-assisted Flare controlling VOC emissions from the liquids condensing system and truck loading:

Limitation Requirements:

Conditio No.	n Parameter	Condition
L-1		For Emission Point AA-002, the permittee shall operate the flare at all times when emissions may be vented to it. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]
L-2		The permittee shall either route all non-condensed gases from the liquid hydrocarbon condensers to the flare or shall recover these gases for sale. The permittee may also route emissions from the liquid hydrocarbon tank and truck loading to the flare for control. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]
Monito	oring Requirements:	
Conditio	n	
No.	Parameter	Condition
M-1		For Emission Point AA-002, the permittee shall install, operate, and maintain a device for monitoring the gas flow to the flare

# **Record-Keeping Requirements:**

Condition No.	Condition
R-1	For Emission Point AA-002, the permittee shall record the time, date, and duration during which emissions are vented to the flare while the flare is inoperable. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]
R-2	For Emission Point AA-002, the permittee shall maintain records of any maintenance performed on the flare and shall maintain a copy of the manufacturer's recommended operating procedures on site and make such available for review by DEQ personnel. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]

manufacturer's recommendations. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]

and for monitoring the presence of a flame in the pilot. The monitoring devices shall be maintained in accordance to the

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#### EQPT0000000001 (AA-003) 16,800-gallon Fixed-Roof Hydrocarbon Liquids Storage Tanks, each equipped with a vapor recovery system:

Limitation Requirements:

Condition		
No.	Parameter	Condition
L-1		For Emission Point AA-003, the permittee shall equip each tank with a carbon canister for VOC control. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]
Monitori	ng Requirements:	
Condition		
No.	Parameter	Condition
M-1		For Emission Point AA-003, the permittee shall monitor each carbon canister for breakthrough in accordance with the manufacturer's recommendations and shall replace the carbon upon breakthrough. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]
Record-I	Keeping Requirements:	
Condition		
No.	Condition	
R-1	For Emission Point AA-003, th	e permittee shall record the date that carbon is replaced for each tank. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]

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#### EQPT000000002 (AA-004) Carbon Solids Pellet Dryers, with emissions from each routed to a dedicated baghouse (AA-001):

to determine the monthly gas usage. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).]

Limitation Requirements:

Condition No.	n Parameter	Condition	
L-1		For Emission Point AA-004, the permittee shall burn either natural gas or non-condensable gas produced on site in the pellet dryers. [11 Miss. Admin. Code Pt. 2, R. 2.2.B(10).]	
Record-Keeping Requirements:			
Condition	n		
No.	Condition		
R-1	For Emission Point AA-00	)4, the permittee shall record the amount of non-condensable gas combusted for each calendar month. A material balance may be used	

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#### AI0000068507 (68507) Waste tire chip processing plant:

Submittal/Action Requirements:

Condition No.	Condition
S-1	Except as otherwise specified herein, the permittee shall Submit a certified annual synthetic minor monitoring report: Due annually, by the 31st of January for preceding calendar year. This report shall address any required monitoring specified in the permit. [11 Miss. Admin.Code Pt. 2, R.2.2.B(11).]
S-2	General Condition: Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) working days of the time the deviation began. [11 Miss. Admin.Code Pt. 2, R.2.2.B(10).]
Narrative	e Requirements:

Condition No.	Condition		
T-1	General Condition: For renewal of this permit the applicant shall make application not less than one-hundred eighty (180) days prior to the expiration date of the permit substantiated with current emissions data, test results or reports or other data as deemed necessary by the Mississippi Environmental Quality Permit Board. [11 Miss. Admin.Code Pt. 2, R.2.8.]		
T-2	<ul> <li>[11 Miss. Admin.Code Pt. 2, R.2.8.]</li> <li>General Condition: Maintenance <ul> <li>(a) Maintenance should be performed during planned shutdown or repair of process equipment such that excess emissions are avoided. Unavoidable maintenance that results in brief periods of excess emissions and that is necessary to prevent or minimize emergency conditions or equipment malfunctions constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards, or other regulatory requirements if the permittee can demonstrate the following:</li> <li>(i) the permittee can identify the need for the maintenance;</li> <li>(ii) the source was at the time being properly operated;</li> <li>(iii) during the maintenance the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;</li> <li>(iv) the permittee submitted notice of the maintenance to MDEQ within five (5) working days of the time the maintenance began or such other times as allowed by MDEQ, which contained a description of the maintenance, any steps taken to mitigate emissions, and corrective actions taken.</li> <li>(b) In any enforcement proceeding, the permittee seeking to establish the applicability of this section has the burden of proof.</li> <li>(c) In the event this maintenance provision conflicts with another applicable requirement, the more stringent requirement shall apply. [11 Miss. Admin.Code Pt.</li> </ul> </li> </ul>		

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AI0000068507 (continued):

Narrative Requirements:

Condition No.	Condition		
T-3	<ul> <li>General Condition: Startups and Shutdowns</li> <li>(a) Startups and shutdowns are part of normal source operation. Emissions limitations applicable to normal operation apply during startups and shutdowns except as follows: (i) when sudden, unavoidable breakdowns occur during a startup or shutdown, the event may be classified as an upset subject to the requirements above; (ii) when a startup or shutdown is infrequent, the duration of excess emissions is brief in each event, and the design of the source is such that the period of excess emissions cannot be avoided without causing damage to equipment or persons; or (iii) when the emissions standards applicable during a startup or shutdown are defined by other requirements of Applicable Rules and Regulations or any applicable permit.</li> <li>(b) In any enforcement proceeding, the permittee seeking to establish the applicability of any exception during a startup or shutdown has the burden of proof.</li> <li>(c) In the event this startup and shutdown provision conflicts with another applicable requirement, the more stringent requirement shall apply. [11 Miss. Admin.Code Pt. 2, R.1.10.]</li> </ul>		
T-4	<ul> <li>General Condition: Upsets</li> <li>(a) The occurrence of an upset constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards or other requirements of Applicable Rules and Regulations or any applicable permit if the permittee demonstrates through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows: (i) an upset occurred and that the permittee can identify the cause(s) of the upset; (ii) the source was at the time being properly operated; (iii) during the upset the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit; (iv) the permittee submitted notice of the upset to the DEQ within five (5) working days of the time the upset began which contained a description of the upset, any steps taken to mitigate emissions, and corrective actions taken.</li> <li>(b) In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.</li> </ul>		

(c) This provision is in addition to any upset provision contained in any applicable requirement. [11 Miss. Admin.Code Pt. 2, R.1.10.]

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AI0000068507 (continued):

Narrative Requirements:

Condition No.	Condition	
T-5	<ul> <li>General Condition: Emergencies</li> <li>(a) Except as otherwise specified herein, an emergency means any situation arising from sudden and reasonably unforseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</li> <li>(b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.</li> <li>(c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence as follows:</li> <li>(i) an emergency occurred and that the permittee can identify the cause(s) of the emergency; (ii) the permitted facility was at the time being properly operated;</li> <li>(iii) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and (iv) the permittee submitted notice of the emergency to MDEQ within two (2) working days of the time when emission limitations were exceeded due to the emergency which contained a description of the emergency has the burden of proof.</li> <li>(e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein [11 Miss. Admin.Code Pt. 2, R.2.2.B(10).]</li> </ul>	
T-6	General Condition: The knowing submittal of a permit application with false information may serve as the basis for the Permit Board to void the permit issued pursuant thereto or subject the applicant to penalties for constructing or operating without a valid permit. [11 Miss. Admin.Code Pt. 2, R.2.2.B(5).]	
T-7	General Condition: The permittee shall retain all required records, monitoring data, supported information and reports for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings or other data for continuous monitoring instrumentation, and copies of all reports required by this permit. Copies of such records shall be submitted to MDEQ as required by Applicable Rules and Regulations or this permit upon request. [11 Miss. Admin.Code Pt. 2, R.2.9.]	
T-8	General Condition: It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit unless halting or reducing activity would create an imminent and substantial endangerment threatening the public health and safety of the lives and property of the people of this state. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15)(a).]	

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AI0000068507 (continued):

Narrative Requirements:

Condition No.	Condition		
T-9	<ul> <li>General Condition: This permit does not authorize a modification as defined in 11 Miss. Admin. Code Pt. 2, Ch. 2 "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment". Modification is defined as "Any physical change in or change in the method of operation of a facility which increases actual emissions or potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the method of operation shall not include:</li> <li>(a) routine maintenance, repair, and replacement;</li> <li>(b) use of an alternative fuel or raw material by reason of an order under Sections 2(a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;</li> <li>(c) use of an alternative fuel or raw material by a stationary source which: (i) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166; or (ii) the source is approved to use under any permit issued under any federally enforceable permit condition which was established after January 6, 0CFR 52.51 or under regulations approved pursuant to 40 CFR 51.166; or (ii) the source is approved to use under any permit issued under 40 CFR 52.51 or under regulations approved pursuant to 40 CFR 51.166; or (ii) the other is approved to use under any federally enforceable permit condition which was established after January 6, 1975,</li></ul>		
T-10	General Condition: The permittee shall furnish to MDEQ within a reasonable time any information MDEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to MDEQ copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee shall furnish such records to MDEQ along with a claim of confidentiality. [11 Miss. Admin.Code Pt. 2, R. 2.2.B(15)(d).]		
T-11	General Condition: The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. [11 Miss. Admin.Code Pt. 2, R. 2.1.D(7).]		
T-12	General Condition: This permit is a Federally-approved permit to operate a synthetic minor source as described in 11 Miss. Admin. Code Pt. 2, R. 2.4.D [11 Miss. Admin.Code Pt. 2, R. 2.4.D.]		
T-13	General Condition: This permit is for air pollution control purposes only. [11 Miss. Admin.Code Pt. 2, R. 2.1.D(1).]		

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AI0000068507 (continued):

Narrative Requirements:

Condition No.	Condition			
T-14	General Condition: This permit may only be transferred upon approval of the Mississippi Environmental Quality Permit Board. [11 Miss. Admin. Code Pt. 2, R. 2.16.B.]			
T-15	General Condition: Nothing herein contained shall be construed as releasing the permittee from any liability for damage to persons or property by reason of the installation, maintenance, or operation of the air cleaning facility, or from compliance with the applicable statutes of the State, or with local laws, regulations, or ordinances. [11 Miss. Admin.Code Pt. 2, R. 2.2.B(7).]			
T-16	General Condition: The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations. [11 Miss. Admin.Code Pt. 2, R. 2.2.B(15)(c).]			
T-17	General Condition: Except for data determined to be confidential under the Mississippi Air & Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Environmental Quality Office of Pollution Control. [Miss. Code Ann. 49-17-39]			
T-18	General Condition: This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. Sufficient cause for this permit to be reopened shall exist when an air emissions stationary source becomes subject to Title V. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of the permit. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15)(b).]			
T-19	<ul> <li>General Condition: After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to:</li> <li>(a) Violation of any terms or conditions of this permit</li> <li>(b) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or</li> <li>(c) A change in any condition that required either a temporary or permanent reduction or elimination of authorized air emissions. [11 Miss. Admin.Code Pt. 2, R. 2.2.C.]</li> </ul>			

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## AI0000068507 (continued):

Narrative Requirements:

Condition No.	Condition	
T-20	<ul> <li>General Condition: The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their authorized representatives, upon the presentation of credentials:</li> <li>(a) To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit, and</li> <li>(b) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any air emission. [Miss. Code Ann. 49-17-21]</li> </ul>	
T-21	General Condition: Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule. [11 Miss. Admin.Code Pt. 2, R.2]	
T-22	General Condition: Any diversion from or bypass of collection and control facilities is prohibited except as provided for in 11 Miss. Admin. Code Pt.2, R. 1.10, "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants", [11 Miss. Admin.Code Pt. 2, R.1.10.]	
T-23	General Condition: Solids removed in the course of control of air emissions shall be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering state waters without the proper environmental permits. [Miss. Code Ann. 49-17-29 1.a(i and ii)]	
T-24	General Condition: The permittee shall at all times maintain in good working order and operate as efficiently as possible all air pollution control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit. [11 Miss. Admin. Code Pt. 2, R. 2.5.A.]	
T-25	General Condition: Any activities not identified in the application are not authorized by this permit. [Miss. Code Ann. 49-17-29 1.b]	

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# **GENERAL INFORMATION**

Delta Energy Natchez LLC 61A Carthage Point Road Natchez, MS Adams County

#### **Alternate/Historic Identifiers**

ID	Alternate/Historic Name	User Group	Start Date	End Date
68507	Delta-Energy Natchez, LLC	Official Site Name	8/31/2015	
2800100059	Delta-Energy Natchez LLC	Air-AIRS AFS (MDEQ USE ONLY)	10/1/2015	
004000059	Delta-Energy Natchez LLC	Air-Construction	11/12/2015	
004000059	Delta-Energy Natchez LLC	Air-Synthetic Minor Operating	11/12/2015	10/31/2020

**Location Description:**