

# State of Mississippi



#### AIR POLLUTION CONTROL PERMIT

To Construct Air Emissions Equipment

## THIS CERTIFIES

Australis TMS Inc, Joe Jackson 4H-2 Production Facility
Highway 24 and Lower Liberty Gloster Road
Liberty, MS
Amite County

has been granted permission to construct air emissions equipment to comply with the emission limitations, monitoring requirements and other conditions set forth herein. This permit is issued in accordance with the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

Mississippi Environmental Quality Permit Board

Mississippi Department of Environmental Quality

Issued/Modified: AUG 0 8 2017

Permit No.

0080-00028

**Expires:** 

Agency Interest # 57079

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Australis TMS Inc, Joe Jackson 4H-2 Production Facility
Subject Item Inventory
Permit Number: 0080-00028
Activity ID No.: PER20170001

**Subject Item Inventory:** 

TD	Tp :	
ID	Designation	Description
AI57079	57079	Oil & Gas Production
EQPT1	AA-001	Low Pressure Flare (FL-701)
EQPT2	AA-002	0.35 MMBTU/hr Heater Treater (V-103)
EQPT3	AA-003	12,600 Gallon Crude Oil/Condensate Storage Tank (S-501) with emissions controlled by the flare (AA-001)
EQPT4	AA-004	12,600 Gallon Crude Oil/Condensate Storage Tank (S-502) with emissions controlled by the flare (AA-001)
EQPT5	AA-005	12,600 Gallon Oil/Condensate/Produced Water Storage Tanks (S-503) with emissions controlled by the flare (AA-001)
EQPT6	AA-006	12,600 Gallon Produced Water Storage Tank (S-504)
AREA1	AA-007	Fugitive Emissions
ACT1	AA-008	Crude Oil Loading (OilLL)
ACT2	AA-009	Produced Water Loading (PWLL)
EQPT7	AA-010	Two Phase Separator

# **Subject Item**

**Groups:** 

ID	Description	Components
GRPT1	Oil Storage Tanks	EQPT3 12,600 Gallon Crude Oil/Condensate Storage Tank (S-501) with emissions controlled by the flare (AA-001)
		EQPT4 12,600 Gallon Crude Oil/Condensate Storage Tank (S-502) with emissions controlled by the flare (AA-001)
		EQPT5 12,600 Gallon Oil/Condensate/Produced Water Storage Tanks (S-503) with emissions controlled by the flare (AA-001)

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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

WDPT = Withdrawal Point

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#### AI0000057079 (57079) Oil & Gas Production:

# **Limitation Requirements:**

Condition No.	n Parameter	Condition
L-1	Fuel Combusted	Fuel Combusted: For all combustion units operating at this facility, the permittee shall combust only commercial grade propane or produced natural gas. [APC-S-2 II.B(10)]
Monito	oring Requirements:	
Condition	n	
No.	Parameter	Condition
M-1		The permittee shall conduct a semi-annual natural gas analysis including hydrogen sulfide concentration, sulfur content,

methane concentration (volume), gross heating value, molecular weight and specific gravity. [APC-S-2 II.B(11)]

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#### AI0000057079 (57079) Oil & Gas Production:

# **Record-Keeping Requirements:**

Condition No.	Condition
R-1	For the facility, the permittee shall keep the following records:
	(1) Record the tons/year of volatile organic compounds, total hazardous air pollutants and individual hazardous air pollutants in 12-month consectuive months.
	(2) Results of semi-annual analysis conducted on produced natural gas including hydrogen sulfide, sulfur content, methane concentration (volume), gross heating value, molecular weight and specific gravity;
	(3) calculated cubic feet of natural gas burned, as fuel monthly;
	(4) barrels of oil produced, monthly;
	(5) calculated cubic feet of natural gas produced, monthly;
	(6) cubic feet of natural gas destructed in the flare unit, monthly;
	(7) log/record of monthly visible emission observation on the flare and heater treater.
	The permittee shall maintain a copy of this record on site for at leat five years and shall make them available upon request by the Mississippi Department of Environmental Quality (MDEQ) personnel. [APC-S-2 II.B(11)]

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#### AI0000057079 (57079) Oil & Gas Production:

# **Submittal/Action Requirements:**

Condition	
No.	Condition
S-1	General Condition: The permittee shall submit certification of construction: Due within thirty (30) days of completion of construction or installation of an approved stationary source or prior to startup, whichever is earlier. The notification shall certify that construction or installation was performed in accordance with the approved plans and specifications. In the event there is any change in construction from the previously approved plans and specifications or permit, the permittee shall promptly notify MDEQ in writing. If MDEQ determines the changes are substantial, MDEQ may require the submission of a new application to construct with "as built" plans and specifications. Notwithstanding any provision herein to the contrary, the acceptance of an "as built" application shall not constitute a waiver of the right to seek compliance penalties pursuant to State Law. [11 Miss. Admin. Code Pt. 2, R. 2.5.D.]
S-2	Within fifteen (15) days of beginning actual construction, the permittee must notify DEQ in writing that construction has begun. [11 Miss. Admin.Code Pt. 2, R.2.5.C (2).]
S-3	The permittee must notify DEQ in writing when construction does not begin within eighteen (18) months of issuance or if construction is suspended for eighteen (18) months or more. [11 Miss. Admin.Code Pt. 2, R.2.5.C(4).]
S-4	Except as otherwise specified herein, the permittee shall submit a certified annual report, due by the 31st of January for the preceding calendar year. This report shall address the required monitoring specified in the permit including the following:
	(1) the quantity of VOC, individual HAPs and total HAPs in 12 consecutive months;
	(2) results of semi- annual analysis of natural gas produced including methane concentration (by volume), hydrogen sulfide, sulfur content, gross heating value, molecular weight, and specific gravity;
	(3) calculated cubic feet of natural gas burned, as fuel, monthly;
	(4) barrels of oil produced, monthly;
	(5) cubic feet of natural gas produced, monthly; and,
	(6) cubic feet of natural gas destructed in the flare, monthly. [APC-S-2 II.B(11)]

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#### AI0000057079 (57079) Oil & Gas Production:

# **Narrative Requirements:**

# **General Condition:**

Condition No.	Condition
T-1	General Condition: The stationary source shall be designed and constructed so as to operate without causing a violation of any Applicable Rules and Regulations or this permit, without interfering with the attainment and maintenance of State and National Ambient Air Quality Standards, and such that the emission of air toxics does not result in an ambient concentration sufficient to adversely affect human health and well-being or unreasonably and adversely affect plant or animal life beyond the stationary source boundaries. [11 Miss. Admin.Code Pt. 2, R.2.5.A.]
T-2	General Condition: Any activities not identified in the application are not authorized by this permit. [Miss. Code Ann. 49_17_29 1.b]
T-3	General Condition: The necessary facilities shall be constructed so that solids removed in the course of control of air emissions may 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]
T-4	General Condition: The air pollution control facilities shall be constructed such that diversion from or bypass of collection and control facilities is not needed except as provided for in Regulation 11 Miss. Admin. Code Pt.2, R. 1.10 "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants", Section 10. [11 Miss. Admin. Code Pt. 2, R. 1.10]
T-5	General Condition: The permittee shall allow the Mississippi Environmental Quality Commission, the Mississippi Environmental Quality Permit Board, MDEQ staff and/or their authorized representatives, upon the presentation of credentials:  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  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]
T-6	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 good cause shown including, but not limited to, the following: a. Persistant violation of any terms or conditions of this permit; b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or c. A change in any condition that requires either a temporary or permanent reduction or elimination of previously authorized air emissions. [11 Miss. Admin.Code Pt. 2, R.2.2.C.]

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## AI0000057079 (57079) Oil & Gas Production:

Condition No.	Condition
T-7	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]
Condition No.	Condition
T-8	General Condition:This permit is for air pollution control purposes only. [11 Miss. Admin.Code Pt. 2, R.2.1.D.]
T-9	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 operating without a valid permit pursuant to State Law. [11 Miss. Admin.Code Pt. 2, R.2.2.B(5).]
T-10	General Condition: It is the responsibility of the applicant/permittee to obtain all other approvals, permits, clearances, easements, agreements, etc., which may be required including, but not limited to, all required local government zoning approvals or permits. [11 Miss. Admin.Code Pt. 2, R.2.1.D(6).]
T-11	General Condition: The issuance of a permit does not release the permittee from liability for constructing or operating air emissions equipment in violation of any applicable statute, rule, or regulation of state or federal environmental authorities. [11 Miss. Admin.Code Pt. 2, R.2.1.D(7).]
T-12	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 the 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).]
T-13	General Condition: The permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. Sufficient cause for a 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 permit condition. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15)(b).]
T-14	General Condition: The permit does not convey any property rights of any sort, or any exclusive privilege. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15)(c).]

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## AI0000057079 (57079) Oil & Gas Production:

Condition No.	Condition
T-15	General Condition: The permittee shall furnish to the DEQ within a reasonable time any information the DEQ 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 the DEQ copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee shall furnish such records to the DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15) (d).]
T-16	General Condition: This permit shall not be transferred except upon approval of the Permit Board. [11 Miss. Admin.Code Pt. 2, R.2.16.B.]
T-17	General Condition: The provisions of this permit are severable. If any provision of the permit, or the application of any provision of the 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.1.1.D(7).]
T-18	General Condition: The permit to construct will expire if construction does not begin within eighteen (18) months from the date of issuance or if construction is suspended for eighteen (18) months or more. [11 Miss. Admin.Code Pt. 2, R.2.5.C(1).]
T-19	General Condition: A new stationary source issued a Permit to Construct cannot begin operation until certification of construction by the permittee. [11 Miss. Admin.Code Pt. 2, R.2.5.D(3).]
T-20	General Condition: Except as prohibited in 11 Miss. Admin. Code Pt. 2,R. 2.5.D(7) after certification of construction by the permittee, the Permit to Construct shall be deemed to satisfy the requirement for a permit to operate until the date the application for issuance or modification of the Title V Permit or the application for issuance or modification of the State Permit to Operate, whichever is applicable, is due. This provision is not applicable to a source excluded from the requirement for a permit to operate as provided by 11 Miss. Admin. Code Pt. 2, R. 2.13.G. [11 Miss. Admin. Code Pt. 2, R. 2.5.D(4).]
T-21	General Condition: Except as otherwise specified in 11 Miss. Admin. Code Pt. 2, R. 2.5.D(7), the application for issuance or modification of the State Permit to Operate or the Title V Permit, whichever is applicable, is due twelve (12) months after beginning operation or such earlier date or time as specified in the Permit to Construct. The Permit Board may specify an earlier date or time for submittal of the application. Beginning operation will be assumed to occur upon certification of construction, unless the permittee specifies differently in writing. [11 Miss. Admin. Code Pt. 2, R. 2.5.D(5).]

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#### AI0000057079 (57079) Oil & Gas Production:

Condition No.	Condition
T-22	General Condition: Except as otherwise specified in 11 Miss. Admin. Code Pt. 2, R. 2.5.D(7), upon submittal of a timely and complete application for issuance or modification of a State Permit to Operate or a Title V Permit, whichever is applicable, the applicant may continue to operate under the terms and conditions of the Permit to Construct and in compliance with the submitted application until the Permit Board issues, modifies, or denies the Permit to Operate. [11 Miss. Admin. Code Pt. 2, R. 2.5.D(6).]
T-23	General Condition: For moderate modifications that require contemporaneous enforceable emissions reductions from more than one emission point in order to net out of PSD/NSR, the applicable Title V Permit to Operate or State Permit to Operate must be modified prior to beginning operation of the modified facilities. [11 Miss. Admin.Code Pt. 2, R.2.5.D(7).]
T-24	General Condition: Regarding compliance testing:  (a) The results of any emissions sampling and analysis shall be expressed both in units consistent with the standards set forth in any Applicable Rules and Regulations or this permit and in units of mass per time.  (b) Compliance testing will be performed at the expense of the permittee.  (c) Each emission sampling and analysis report shall include but not be limited to the following:  1. detailed description of testing procedures;  2. sample calculation(s);  3. results; and  4. comparison of results to all Applicable Rules and Regulations and to emission limitations in the permit. [11 Miss. Admin.Code Pt. 2, R.2.6.B(3),(4)&(6).]
T-25	General Condition: The construction of the stationary source shall be performed in such a manner so as to reduce fugitive dust emissions from construction activities to a minimum. [11 Miss. Admin.Code Pt. 2, R.2.5.A(4).]

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## **EQPT000000001 (AA-001) Low Pressure Flare (FL-701):**

# **Limitation Requirements:**

Condition No.	Parameter	Condition
L-1	Hydrogen sulfide	Hydrogen sulfide: The permittee shall not permit the emission of any gas stream which contains hydrogen sulfide in excess of one grain per 100 standard cubic feet. [APC-S-1 4.2.b]
L-2	Opacity	Opacity: The permittee shall operate the flare with no visible emissions as determined by EPA Method 22, except for periods not to exceed a total of 5 minutes during any consecutive two (2) hours. [APC-S-2 II.B(10)]
L-3		The permittee shall operate the flare in accordance with 40 CFR 60.18. [APC-S-2 II.B(10)]
L-4		The permittee shall maintain a flare pilot flame at all times. The flare shall operate with a control efficiency of 98%. The permittee shall record anytime the facility is operated without a flame present and the corrective actions taken. [APC-S-2 II.B (10)]
L-5		The flare will be operated such that visible emissions will not exceed 5 minutes in any consecutive 2 hour period. [40 CFR 60.18(c)(1)]
L-6		The flare will combust gas with a net heating value greater than 200 Btu/scf as required for a nonassisted flare. [40 CFR 60.18(c)(3)]
L-7		The flare will comply with all applicable velocity requirements. [40 CFR 60.18(c)(4)]
L-8		The flare utilized will be a nonassisted flare. [40 CFR 60.18(c)(6)]
L-9		The flare will be monitored to ensure that it is operated and maintained in accordance with the design. [40 CFR 60.18(d)]
L-10		The facility flare will be operational at all times while product is present in Tanks S-501, S-502 and S-503. [40 CFR 60.18 (e)]

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#### **EQPT000000001 (AA-001) Low Pressure Flare (FL-701):**

# **Monitoring Requirements:**

Condition No.	Parameter	Condition
M-1		The permittee shall perform monthly visual emission observations using EPA Method 22. If smoking is detected, the permittee shall take corrective action. [APC-S-2 II.B(11)]

# **Record-Keeping Requirements:**

Condition No.	Condition
R-1	The permittee shall maintain a record and/or a log documenting all visual observations/test, the nature and cause of any visible emissions, any corrective action(s) taken to prevent or minimize the emissions, and the date and time when visible observations were conducted. [APC-S-2 II.B(11)]
R-2	The permittee shall keep records of all maintenance performed on the flare in order to operate in a manner consistent with good air pollution control practices to minimize emissions and shall make said records available upon request during an inspection visit by the MDEQ personnel. [APC-S-2 II.B(11)]

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#### **EQPT0000000002 (AA-002) 0.35 MMBTU/hr Heater Treater (V-103):**

# **Limitation Requirements:**

Condition No.	n Parameter	Condition
L-1	Particulate Matter	Particulate Matter: The permittee shall have particulate emissions from fossil fuel burning installations of less than 10 MMBTU/hr heat input that exceeds 0.6 lb/MMBTU. [APC-S-1 3.4.a(1)]
L-2	Opacity	Opacity: The permittee shall not have emissions of opacity greater than or equal to 40% as determined by EPA Reference Method 9, 40 CFR 60, Appendix A. [APC-S-1 4.1.a]
L-3		The permittee shall route the separated gas emissions to the flare (AA-001) or to a pipeline for product recovery. [APC-S-2 II.B(10)]

Condition No.	Condition
T-1	Such air emission equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants. [APC-S-2 II.B(10)]

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#### **EQPT000000006 (AA-006) 12,600 Gallon Produced Water Storage Tank (S-504):**

Condition No.	Condition
T-1	Such air emission equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants. [APC-S-2 II.B(10)]

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#### AREA000000001 (AA-007) Fugitive Emissions:

Condition No.	Condition
T-1	Such air emission equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants. [APC-S-2 II.B(10)]

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#### ACT0000000001 (AA-008) Crude Oil Loading (OilLL):

Condition	
No.	Condition
T-1	Such air emission equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants. [APC-S-2 II.B(10)]

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#### ACT0000000002 (AA-009) Produced Water Loading (PWLL):

Condition No.	Condition
T-1	Such air emission equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants. [APC-S-2 II.B(10)]

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## EQPT0000000007 (AA-010) Two Phase Separator:

# **Limitation Requirements:**

Conditio No.	n Parameter	Condition		
L-1		The permittee shall only operate emission point AA-010, the separator, with the separated gas routed to and controlled by the flare (AA-001). [APC-S-2 II.B(10)]		
Narra	Narrative Requirements:			

Condition	
No.	Condition
T-1	Such air emissions equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants. [APC-S-2 II.B(10)]

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#### **GRPT000000001 (Group 1) Oil Storage Tanks:**

# **Limitation Requirements:**

Condition No.	Parameter	Condition
L-1		The permittee shall route emissions to the flare (AA-001) or to a pipeline for product recovery. [APC-S-2 II.B(10)]
L-2		For Emission Points AA-003 and AA-004, the permittee is subject to New Source Performance Standard for Crude Oil and Natural Gas Production, Transmission, and Distribution, 40 CFR 60, Subpart OOOO and the General Provisions in Subpart A. The permittee shall comply with all applicable requirements by the published compliance date. [40 CFR 60.Subpart OOOO]

Condition No.	Condition
T-1	Such air emission equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants. [APC-S-2 II.B(10)]

## **GENERAL INFORMATION**

Australis TMS Inc, Joe Jackson 4H-2 Production Facility
Highway 24 and Lower Liberty Gloster Road
Liberty, MS
Amite County

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

ID	Alternate/Historic Name	User Group	Start Date	End Date
57079	Australis TMS, Inc.	Official Site Name	08/04/2017	
2800500028	Australis TMS, Inc., Joe Jackson 4H-2 Production Facility	Air-AIRS AFS	07/18/2012	
008000028 Encana Oil and Gas USA Inc, Joe Jackson 4H-2 Production Facility		Air-Construction	07/19/2012	
	Branch	Branches Group - Air	07/18/2017	
57079	Encana Oil and Gas (USA0, Inc.	Historic Site Name	02/16/2012	08/04/2017

Basin: South Independent Streams Basin