

Data Base Summary (Statement of Basis)
TV Permit

PSD	Size	Portable
Y	TV	N

Permit Writer: Melinda Owens
Permit No. (NSR) 0761M9
Operating Permit No. (TV) P018R2M1
IDEA ID No. 1191 - PRT20110001
AIRS ID No. 35-045-0184
SIC CODE: 1389: Oil and gas field services, nec
Facility Type: O&G-Compressor Station
Company: Williams Four Corners, LLC
Facility: Thompson Compressor Station
Type of Permit Action: Significant Modification
Application Date: June 27, 2011
Receive Date: June 30, 2011
Timeliness of TV Application: Yes (NSR Sig Rev 0761M9 application worked concurrently with TV)
Ruled Incomplete: NR
Ruled Complete: July 21, 2011
APP. sent to Field Office: NR
PSD APP. Sent to EPA: NR
Public Notice Date & Newspaper: August 10, 2011 in the *Farmington Daily Times*
Comments Due: September 9, 2011
Analysis Review Begins: December 19, 2011
Analysis Review Ends: January 18, 2011
Public Hearing: TBD
Proposed Permit to EPA Acknowledged: TBD
Permit Due: April 16, 2012
Permit Issued: TBD
PSD Permit to EPA: NR

Facility Location: This facility is located approximately 6 miles NW of Aztec in San Juan County, New Mexico.
UTM ZONE: 12
UTM Easting: 758,880 meters
UTM Northing: 4,080,220 meters
Elevation: 5,800 m feet
County: San Juan
In a Sensitive Area: Yes, San Juan County is a Sensitive Area.

Contact Name: Danell Zawaski
Phone: 505-634-4951
Fax: 505-632-4781

Contact Address: **Email:** danell.zawaski@williams.com
 188 County Road 4900
 Bloomfield, NM 87413

Consultant Name: Cirrus Consulting, LLC
Phone: 801-484-4412
Fax: 801-484-4192801-294-0454
Email: jnewby@cirrusllc.com
Consultant Address: 951 Diestel Rd
 Salt Lake City, UT 84105

Title V AFFECTED PROGRAM* NOTIFICATION:

Affected Program	Distance	Units	Date Letter Sent
Class I - Mesa Verde National Park	47.2	km	NR
Municipality - Jicarilla Apache Tribe	72.4	km	7/21/2011
Municipality - Navajo Nation	19.3	km	7/21/2011
Municipality - Southern Ute Tribe	19.3	km	7/21/2011
Municipality - Ute Mountain Reservation	12.9	km	7/21/2011
State - Colorado	19.3	km	7/21/2011

*As defined by 20.2.70.7.B: All States, local air pollution control programs, and Indian Tribes and Pueblos, that are within 50 miles (80.5 km) of the source.

PART II - FACILITY SPECIFICATIONS

Total Pollutant Emissions from Entire Facility (for information only, not an enforceable condition):

Pollutant	Emissions (tons per year)	Emission Type	Change in Emission since Permit P018R2
Nitrogen Dioxide	328.8	Allowable	+24.5
Carbon Monoxide	159.0	Allowable	+19.6
Volatile Organic Compounds (VOC)	156.4	Allowable	-5.9
Volatile Organic Compounds (VOC)	5.8	Potential	+3.9
Volatile Organic Compounds (VOC)	22.4	Allowable SSM & Malfunctions	+15.7
Total Suspended Particulates (TSP)	1.1	Potential	+1.1
Particulate Matter less than 10 microns (PM ₁₀)	1.1	Potential	+1.1
Particulate Matter less than 2.5 microns (PM _{2.5})	1.1	Potential	+1.1

VOC: Includes 121.6 tpy of flash gas emissions from Tank 3 and 12.

Total HAPS* and NM TAPS that exceed 1.0 ton per year (for information only, not an enforceable condition):

Pollutant	Emissions (tons per year)	Emission Type	Change in Emission since Permit P018R2
Acetaldehyde	1.0	Potential	+1.0
Formaldehyde	4.4	Potential	-0.3
Hexane	5.3	Potential	+0.3
Toluene; (Methyl benzene)	1.0	Potential	+1.0
Total HAP	12.5	Potential	+1.1

* HAP emissions are already included in VOC emissions

Note: The Total HAPS may not match the sum of the individual HAPS in this table as it will include values from HAPS that are below 1.0 tpy.

AIR POLLUTION CONTROL DEVICES: None

EQUIPMENT SPECIFICATIONS (Active/Alternative):

Unit No.	Unit Type	Manufacturer	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
1	Turbine	Solar Saturn	10-T1300	S428435	9/10/1996	9/10/1996	1300 hp / 1125 hp	1125 hp	Active	Solar Saturn Gas Turbine
2	Internal combustion engine	Waukesha	9390GL	76240	5/26/2004	5/26/2000	1864 hp / 1970 hp	1864 hp	Active	Waukesha 9390GL Reciprocating Engine
3 *	Internal combustion engine	White Superior	8GT825	x00130	1/1/1973	1/1/1971	1100 hp / 958 hp	958 hp	Active	White Superior 8GT825 Reciprocating Engine
9	Turbine	Solar Saturn	10-T1200	S401519	3/21/2006	3/21/2006	997 hp / 997 hp	997 hp	Active	Solar Saturn Gas Turbine
14 *	Turbine	Solar	40-4700S	TBD			5,700 hp / 3834 hp	5,700 hp / 3834 hp	Active	Solar Centaur Turbine
F-1	Fugitives	Not Applicable	Not Applicable						Active	Piping Component Fugitive Emissions
F-2	Fugitives	Not Applicable	Not Applicable						Active	Loading Loss Fugitive Emissions
T-3	Tank - Above Ground	Not Applicable	Not Applicable	Not Applicable	1/1/1985	1/1/1985	21000 gal / 21000 gal	21000 gal / 578340 gal/y	Active	Tank No.3, Condensate
T-12	Tank - Above Ground	Not Applicable	Not Applicable	Not Applicable	1/1/2004	1/1/2004	16800 gal / 16800 gal	16800 gal / 199527 gal/y	Active	Condensate Storage Tank

*Upon installation and start-up of Unit 14, Unit 3 shall be retired.

EQUIPMENT SPECIFICATIONS (Inactive/Retired/Removed): None

EMISSIONS: Pollutant Permitted (Allowable) Emissions per piece of equipment or Subject Item as represented by applicant.

Unit No.	NO _x (pph)	¹ NO _x (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)*	Flashing Emissions (tpy)
1	4.6	20.1	7.7	33.6	<	<	
2	6.2	27.0	10.9	47.7	4.1	18.0	
3 ³	52.0	227.6	2.3	10.0	<	3.4	
9	6.8	29.6	11.0	48.1	<	1.4	
14 ³	5.6	24.5	4.5	19.6	<	1.1	
T-3and T-12						*130.7	121.6
F-2						1.8	
SSM						12.4	
M-1						10.0	
TOTAL**		328.8		159.0		178.8	121.6

¹ Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO₂

² Pounds per hour and tons per year

³ Upon installation and start-up of Unit 14, Unit 3 shall be retired.

* This VOC total includes the VOC flashing from the far right column.

** Totals are for information, not enforceable conditions, and used to determine annual Operating Fees.

Note: Source is major for NO_x, CO and VOC and therefore subject to emission limits in accordance with 20.2.70.302.A.7.

Pollutant Permitted: Allowable SSM & Malfunction Units, Activities, and Emissions Limits

Unit No.	Description	VOC tpy
SSM from 1a, 2a, 3a, 9a, 14a	Turbine and engine compressors & associated piping blowdowns during routine and predictable Startup, Shutdown, and/or Maintenance (SSM)	12.4
M1	Venting ² of Gas due to Malfunctions.	10.0
	Total ¹	22.4

¹ Totals are for information only, not enforceable conditions.

² This authorization does not apply to VOC emissions from combustion sources

Pollutant **Unpermitted** (Potential) Emissions (Non-regulated, without permitted emission limits)

Unit No.	VOC (pph)	VOC (tpy)*	TSP (tpy)	PM ₁₀ (tpy)	PM _{2.5} (tpy)
F-1 (piping component fugitive emissions)	1.3	5.8			
14 (turbine)			1.1	1.1	1.1
Total		5.8	1.1	1.1	1.1

ALLOWABLE HAPS EMISSIONS FROM TEMPO, Table has the most common HAPS – it is not inclusive of all HAPS that might be entered in TEMPO. None

POTENTIAL HAPS EMISSIONS FROM TEMPO, Table has the most common HAPS – it is not inclusive of all HAPS that might be entered in TEMPO. All emissions are in tons/year

Emission Unit Number	Total HAPS (tpy)	Acetal Dehyde (tpy)	Benzene (tpy)	Formaldehyde (tpy)	Hexane (tpy)	Toluene (tpy)
2	3.2		<	3.0	<	<
3	0.7		<	<	<	<
14	1.5	<	<	<	<	<
T-3 and T-12	5.4		<		4.5	<
TOTAL*	12.5	1.0	0.5	4.4	5.3	1.0

* Totals are for information only and may not match the totals in the table “TOTAL HAPS and NM TAPS”