

Data Base Summary (Statement of Basis)
NSR SSM Permit

PSD	Size	Portable
Major, but never triggered PSD	TV	N

Permit Writer: Joseph Kimbrell
Permit No. (NSR) 0759M4
Operating Permit No. (TV) P236R1
IDEA ID No. 1189 - PRN20110001
AIRS ID No. 350450182
SIC CODE: 1389: Oil and gas field services, nec
Facility Type: O&G-Compressor Station
Company: Williams Four Corners LLC
Facility: Chaco Compressor Station
Type of Permit Action: Regular-Significant Revision
Application Date: August 8, 2011
Receive Date: August 9, 2011
Timeliness of TV Application: N/A
Ruled Incomplete: NR
Ruled Complete: August 11, 2011
APP. sent to Field Office: NR
PSD APP. Sent to EPA: NR
Public Notice Date&Newspaper: August 16, 2011, Farmington Daily News
Comments Due: September, 15, 2011
Analysis Review Begins: September, 16, 2011
Analysis Review Ends: October, 16, 2011
Public Hearing: NR
Proposed Permit to EPA Acknowledged: NR
Permit Due: November 9, 2011
Permit Issued: TBD
PSD Permit to EPA: NR

Facility Location: This facility is located approximately 1 mile S. of Bloomfield in San Juan County, New Mexico.
UTM ZONE: 13
UTM Easting: 233900 meters
UTM Northing: 4064700 meters
Elevation: 5571 ft feet
County: San Juan
In a Sensitive Area: Yes

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NSR AFFECTED PROGRAM NOTIFICATION:

Affected Program	Distance	Units	Date Letter Sent
Class I - Mesa Verde National Park	66.3	km	Not required
Class I - San Pedro Parks Wilderness	113.9	km	Not required
Class I - Weminuche Wilderness	88.7	km	Not required
Municipality - Jicarilla Apache Tribe	57.9	km	Not required
Municipality - Navajo Nation	16	km	8/11/11
Municipality - Southern Ute Tribe	33.7	km	8/11/11
Municipality - Ute Mountain Reservation	19.3	km	8/11/11
State - Colorado	33.7	km	8/11/11

As required by 20.2.72.206.A.(7): Mail a copy of the public notice at the same time it is sent for publication to the appropriate agency in the following locations if the source will locate within 31.06856 miles (50 kilometers) of the boundary of other states, Bernalillo County, or a Class I area.

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 759M3
Nitrogen Dioxide	115.9	Allowable	0
Carbon Monoxide	63.9	Allowable	0
Volatile Organic Compounds (VOC)	481.4	Allowable	
Volatile Organic Compounds (VOC)	29.3	Start-up, Shut-down, Maintenance/ Malfunction	+29.3
Flash gas emissions	220	Allowable	0
Particulate Matter (total suspended)	1.5	Allowable	0
Particulate Matter (10 microns or less)	1.5	Allowable	0
Particulate Matter (2.5 microns or less)	1.5	Allowable	0

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 759M3
Acetaldehyde; (Ethyl aldehyde)	1	Potential	0
Benzene	1.8	Potential	0
Formaldehyde	1	Potential	0
Hexane	17	Potential	0
Toluene; (Methyl benzene)	1.7	Potential	0
Total HAP	22.9	Potential	0

* 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	1001	S401983	6/8/1971	6/8/1971	1100 hp / 894 hp	1100 hp / 894 hp	Active	Solar Saturn Turbine 1001
2	Turbine	Solar Saturn	1001	S401984	6/8/1971	6/8/1971	1100 hp / 894 hp	1100 hp / 894 hp	Active	Solar Saturn Turbine 1001
3	Turbine	Solar Saturn	1200	S428315	7/19/1973	7/19/1973	1200 hp / 976 hp	1200 hp / 976 hp	Active	Solar Saturn Turbine 1200
4	Turbine	Solar Centaur	3830	S3020212	5/10/1974	1/1/1994	3830 hp / 3115 hp	3830 hp / 3115 hp	Active	Solar Centaur Turbine 3830
L-1	Transfer	not applicable	not applicable	not applicable	1/1/1995	1/1/1995	/	/	Active	Truck Loading
T-4	Tank - Above Ground	Giant	not applicable	25903	5/19/1995	5/19/1995	500 bbl / 21000 gal	21000 gal / 504000 gal/y	Active	Condensate Tank
T-5	Tank - Above Ground	Giant	not applicable	7794	1/8/2001	1/8/2001	450 bbl / 18900 gal	18900 gal / 504000 gal/y	Active	Condensate Tank
SSM (1a-4a)	Compressors	Solar							Active	

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)*	SO ₂ (pph)	SO ₂ (tpy)	TSP (pph)	TSP (tpy)	PM ₁₀ (pph)	PM ₁₀ (tpy)	PM _{2.5} (pph)	PM _{2.5} (tpy)	VOC flashing (tpy)
1	3.3	14.3	3.5	15.1		<									
2	3.3	14.3	3.5	15.1		<									
3	3.3	14.3	3.5	15.1		<									
4	16.7	73.0	4.2	18.6	0.5	2.3			0.3	1.5	0.3	1.5	0.3	1.5	
L-1					47.0	6.3									
T-4						236.4									228.1
T-5						236.4									228.1
SSM (1a-4a)						19.3									
M1						10.0									
TOTAL**		115.9		63.9		510.7				1.5		1.5		1.5	456.2

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

*This VOC total includes the VOC flashing from the far right column. Pounds per hour and tons per year

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

< Emissions are less than 1.0 pph or tpy and emission limit was not established.

Title V Note 1: Source is major for NO_x and VOC and therefore subject to emission limits in accordance with 20.2.70.302.A.7. CO emissions were established by NSR Permit 0759.

Note 2: Emissions are less than 1.0 pph or tpy and emission limit was not established.

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

Unit No.	NO _x (pph)	NO _x (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)*	SO ₂ (pph)	SO ₂ (tpy)	TSP (pph)	TSP (tpy)	PM ₁₀ (pph)	PM ₁₀ (tpy)	PM _{2.5} (pph)	PM _{2.5} (tpy)	VOC flashi ng (tpy)	H ₂ S (pph)	H ₂ S (tpy)
Unit T-4															228.1		
Unit T-5															228.1		

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

ALLOWABLE HAPS EMISSIONS FROM 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)	Acetaldehyde (tpy)	Formaldehyde (tpy)	Hexane (tpy)	Toluene (tpy)
4	1.23				
T-4	9.7			7.9	
T-5	9.7			7.9	
TOTAL*	22.9	1.0	1.0	17.0	1.7

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

Table A: Allowable SSM and Malfunction Units, Activities, and Emissions Limits

Unit No.	Description	VOC tpy
SSM from Units 01a-04a	Compressor & Associated Piping Blowdowns	19.3
M1	Venting ² of Gas due to Malfunctions.	10.0
	Total ¹	29.3

1 Totals are for information only, not enforceable conditions.

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

“Regardless of the permitted SSM and malfunction emissions, the permittee is still required to minimize and/or mitigate emissions during SSM and malfunction events regardless if the resulting emissions would be below the permitted limits (20.2.7.14.A, 20.2.7.109, 20.2.72.203.A(5), and 20.2.70.300.D(5)(g) NMAC). The SSM and malfunction emission limits do not supersede these requirements.”