

Williams Ohio Valley
Midstream LLC
Caveney Station
051-00167
R13-3085A
Caroline Griffith



Williams Ohio Valley Midstream LLC
Park Place Corporate Center 2
2000 Commerce Drive
Pittsburgh, PA 15275
(412) 787-7300
(412) 787-6002 fax

May 20, 2015

Beverly McKeone
New Source Review Program Manager
Division of Air Quality
West Virginia Department of Environmental Protection
601 57th Street SE
Charleston, WV 25304-2345

**Subject: Application for Class II Administrative Permit Update
Williams Ohio Valley Midstream LLC
Caveney Compressor Station
Marshall County, West Virginia**

Dear Ms. McKeone:

Williams Ohio Valley Midstream LLC (OVM) is submitting an Application for Class II Administrative Update to Permit R13-3085 for the Caveney Compressor Station located near Moundsville in Marshall County, West Virginia.

This Application for Class II Administrative Update has been prepared and submitted to update the number of piping components (e.g., valves, connectors, flanges, etc.) at the site. Condition 4.1.11 of Permit R13-3085 states "the permittee shall not exceed the number and type of components (valves, pump seals, connectors, etc.) in gas/vapor or light liquid (as applicable) listed in Attachment N of Permit Application R13-3085." A count of pipeline components at the station was recently completed, and because the number of components differ from those represented in the permit application, an application for Class II permit amendment is being submitted.

Updated process piping fugitive emission estimates are provided along with facility-wide emission summaries demonstrating the facility remains a minor source. Additionally, it is requested Condition 4.1.11 is removed from the permit as other recently issued permits for similar Williams OVM facilities do not specifically limit the number and type of piping components at the site.

Beverly McKeone
WVDEP – Division of Air Quality
May 20, 2015
Page 2 of 2

If you have any questions concerning this submittal or need additional information, please contact me at (412) 787-4259 or danell.zawaski@williams.com.

Sincerely,

A handwritten signature in black ink that reads "Danell Zawaski". The signature is written in a cursive style with a large, prominent 'D' at the beginning.

R. Danell Zawaski, PE
Environmental Specialist

Enclosures:

Application for NSR Permit Modification w/ Attachment P
Check for Application Fee (\$300)

**APPLICATION FOR 45CSR13
CLASS II ADMINISTRATIVE PERMIT UPDATE**

For the:

**Williams Ohio Valley Midstream LLC
Caveney Compressor Station
Marshall County, West Virginia**

Submitted to:



**WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY**

Submitted by:



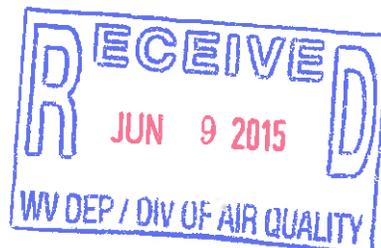
**Williams Ohio Valley Midstream LLC
Park Place Corporate Center 2
2000 Commerce Drive
Pittsburgh, PA 15275**

Prepared by:



**EcoLogic Environmental Consultants, LLC
864 Windsor Court
Santa Barbara, CA 93111**

May 2015



**APPLICATION FOR 45CSR13
CLASS II ADMINISTRATIVE PERMIT UPDATE**

**Williams Ohio Valley Midstream LLC
Caveney Compressor Station
Marshall County, West Virginia**

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APPLICATION FOR NSR PERMIT (CLASS II ADMINISTRATIVE UPDATE)

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APPLICATION FOR 45CSR13 CLASS II ADMINISTRATIVE PERMIT UPDATE

- Section I. General
- Section II. Additional Attachments and Supporting Documents
- Section III. Certification of Information



WEST VIRGINIA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street, SE
Charleston, WV 25304
(304) 926-0475
www.dep.wv.gov/dag

**APPLICATION FOR NSR PERMIT
AND
TITLE V PERMIT REVISION
(OPTIONAL)**

PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNOWN):
 CONSTRUCTION MODIFICATION RELOCATION
 CLASS I ADMINISTRATIVE UPDATE TEMPORARY
 CLASS II ADMINISTRATIVE UPDATE AFTER-THE-FACT

PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY):
 ADMINISTRATIVE AMENDMENT MINOR MODIFICATION
 SIGNIFICANT MODIFICATION
 IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant (as registered with the WV Secretary of State's Office): WILLIAMS OHIO VALLEY MIDSTREAM LLC		2. Federal Employer ID No. (FEIN): 27-0856707	
3. Name of facility (if different from above): CAVENEY COMPRESSOR STATION		4. The applicant is the: <input type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input checked="" type="checkbox"/> BOTH	
5A. Applicant's mailing address: PARK PLACE CORPORATE CENTER 2 2000 COMMERCE DRIVE PITTSBURGH, PA 15275		5B. Facility's present physical address: OFF WAYMANS RIDGE ROAD APPROXIMATELY 3 MILES SE OF MOUNDSVILLE, WV	
6. West Virginia Business Registration. Is the applicant a resident of the State of West Virginia? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO - If YES, provide a copy of the Certificate of Incorporation/Organization/Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A . - If NO, provide a copy of the Certificate of Authority/Authority of L.L.C./Registration (one page) including any name change amendments or other Business Certificate as Attachment A .			
7. If applicant is a subsidiary corporation, please provide the name of parent corporation: THE WILLIAMS COMPANIES, INC			
8. Does the applicant own, lease, have an option to buy or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - If YES, please explain: APPLICANT OWNS THE PROPERTY - If NO, you are not eligible for a permit for this source.			
9. Type of plant or facility (stationary source) to be constructed, modified, relocated, administratively updated or temporarily permitted (e.g., coal preparation plant, primary crusher, etc.): NATURAL GAS PRODUCTION FACILITY		10. North American Industry Classification System (NAICS) code for the facility: 213112 - SUPPORT ACTIVITIES FOR OIL AND GAS OPERATIONS	
11A. DAQ Plant ID No. (for existing facilities only): 051-00167		11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only): R13-3085	
All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.			

<p>12A.</p> <ul style="list-style-type: none"> For Modifications, Administrative Updates or Temporary permits at an existing facility, please provide directions to the <i>present location</i> of the facility from the nearest state road; For Construction or Relocation permits, please provide directions to the <i>proposed new site location</i> from the nearest state road. Include a MAP as Attachment B. <p>FROM MOUNDSVILLE, HEAD EAST ON 5TH STREET TOWARD JEFFERSON AVE FOR 299 FEET, TAKE THE 2ND LEFT ONTO BAKER AVE AFTER 292 FEET, TAKE THE 2ND RIGHT ONTO 4TH STREET AFTER 1.4 MILES, CONTINUE ONTO MIDDLE GRAVE CREEK RD FOR 1.3 MILES, TURN LEFT ONTO CAMPBELL HILL RD AND TRAVEL 2.9 MILES, TURN RIGHT ONTO MIDDLE GRAVE CREEK RD/WAYMANS RIDGE RD AND TRAVEL 0.6 MILES, TURN RIGHT TO STAY ON MIDDLE GRAVE CREEK RD/WAYMANS RIDGE RD FOR ANOTHER 0.6 MILES, TURN LEFT ONTO UNKNOWN ROAD AND TRAVEL 0.3 MILES TO FACILITY.</p>		
12.B. New site address (if applicable): NA	12C. Nearest city or town: MOUNDSVILLE	12D. County: MARSHALL
12.E. UTM Northing (KM): 4,415.794	12F. UTM Easting (KM): 527.249	12G. UTM Zone: 17
<p>13. Briefly describe the proposed change(s) at the facility: REVISE PERMIT TO UPDATE PROCESS PIPING FUGITIVE EMISSIONS. THERE ARE NO OTHER CHANGES TO THE EQUIPMENT OR EMISSIONS AT THE SITE.</p>		
<p>14A. Provide the date of anticipated installation or change: NA</p> <ul style="list-style-type: none"> If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: NA 		<p>14B. Date of anticipated Start-Up if a permit is granted: NA</p>
<p>14C. Provide a Schedule of the planned Installation of/Change to and Start-Up of each of the units proposed in this permit application as Attachment C (if more than one unit is involved).</p>		
<p>15. Provide maximum projected Operating Schedule of activity/activities outlined in this application: Hours Per Day: 24 Days Per Week: 7 Weeks Per Year: 52</p>		
<p>16. Is demolition or physical renovation at an existing facility involved? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>		
<p>17. Risk Management Plans. If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your Risk Management Plan (RMP) to U. S. EPA Region III.</p>		
<p>18. Regulatory Discussion. List all Federal and State air pollution control regulations that you believe are applicable to the proposed process (<i>if known</i>). A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance (<i>if known</i>). Provide this information as Attachment D.</p>		

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate application fee (per 45CSR22 and 45CSR13).
20. Include a Table of Contents as the first page of your application package.
21. Provide a Plot Plan , e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as Attachment E (Refer to Plot Plan Guidance). <ul style="list-style-type: none"> Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).
22. Provide a Detailed Process Flow Diagram(s) showing each proposed or modified emissions unit, emission point and control device as Attachment F .

23. Provide a **Process Description as Attachment G.**

– Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H.**

– For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I.**

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J.**

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K.**

28. Check all applicable **Emissions Unit Data Sheets** listed below:

- | | | |
|--|--|--|
| <input type="checkbox"/> Bulk Liquid Transfer Operations | <input type="checkbox"/> Haul Road Emissions | <input type="checkbox"/> Quarry |
| <input type="checkbox"/> Chemical Processes | <input type="checkbox"/> Hot Mix Asphalt Plant | <input type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities |
| <input type="checkbox"/> Concrete Batch Plant | <input type="checkbox"/> Incinerator | <input type="checkbox"/> Storage Tanks |
| <input type="checkbox"/> Grey Iron and Steel Foundry | <input type="checkbox"/> Indirect Heat Exchanger | |
| <input type="checkbox"/> General Emission Unit, specify: | | |

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L.**

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

- | | | |
|--|---|--|
| <input type="checkbox"/> Absorption Systems | <input type="checkbox"/> Baghouse | <input type="checkbox"/> Flare |
| <input type="checkbox"/> Adsorption Systems | <input type="checkbox"/> Condenser | <input type="checkbox"/> Mechanical Collector |
| <input type="checkbox"/> Afterburner | <input type="checkbox"/> Electrostatic Precipitator | <input type="checkbox"/> Wet Collecting System |
| <input type="checkbox"/> Other Collectors, specify : | | |

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M.**

30. Provide all **Supporting Emissions Calculations** as **Attachment N**, or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O.**

> Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and **Example Legal Advertisement** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

YES NO

> If **YES**, identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "**Precautionary Notice – Claims of Confidentiality**" guidance found in the **General Instructions** as **Attachment Q.**

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

- | | |
|--|---|
| <input type="checkbox"/> Authority of Corporation or Other Business Entity | <input type="checkbox"/> Authority of Partnership |
| <input type="checkbox"/> Authority of Governmental Agency | <input type="checkbox"/> Authority of Limited Partnership |

Submit completed and signed **Authority Form** as **Attachment R.**

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

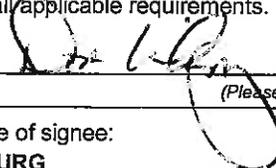
35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned **Responsible Official** / **Authorized Representative**, hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE 
(Please use blue ink)

DATE: 5/25/2015
(Please use blue ink)

35B. Printed name of signee:
DON WICBURG

35C. Title:
VICE PRESIDENT AND GENERAL MANAGER

35D. E-mail:
DON.WICBURG@WILLIAMS.COM

36E. Phone:
(304) 843-3158

36F. FAX:
(304) 843-3131

36A. Printed name of contact person (if different from above):
R. DANELL ZAWASKI, PE

36B. Title:
ENVIRONMENTAL SPECIALIST

36C. E-mail:
DANELL.ZAWASKI@WILLIAMS.COM

36D. Phone:
(412) 787-4259

36E. FAX:
(412) 787-6002

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- | | |
|---|---|
| <input type="checkbox"/> Attachment A: Business Certificate | <input type="checkbox"/> Attachment K: Fugitive Emissions Data Summary Sheet |
| <input type="checkbox"/> Attachment B: Map(s) | <input type="checkbox"/> Attachment L: Emissions Unit Data Sheet(s) |
| <input type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s) |
| <input type="checkbox"/> Attachment D: Regulatory Discussion | <input type="checkbox"/> Attachment N: Supporting Emissions Calculations |
| <input type="checkbox"/> Attachment E: Plot Plan | <input type="checkbox"/> Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans |
| <input type="checkbox"/> Attachment F: Detailed Process Flow Diagram(s) | <input checked="" type="checkbox"/> Attachment P: Public Notice |
| <input type="checkbox"/> Attachment G: Process Description | <input type="checkbox"/> Attachment Q: Business Confidential Claims |
| <input type="checkbox"/> Attachment H: Material Safety Data Sheets (MSDS) | <input type="checkbox"/> Attachment R: Authority Forms |
| <input type="checkbox"/> Attachment I: Emission Units Table | <input type="checkbox"/> Attachment S: Title V Permit Revision Information |
| <input type="checkbox"/> Attachment J: Emission Points Data Summary Sheet | <input checked="" type="checkbox"/> Application Fee |

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- Forward 1 copy of the application to the Title V Permitting Group and:
- For Title V Administrative Amendments:
 - NSR permit writer should notify Title V permit writer of draft permit,
- For Title V Minor Modifications:
 - Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,
 - NSR permit writer should notify Title V permit writer of draft permit.
- For Title V Significant Modifications processed in parallel with NSR Permit revision:
 - NSR permit writer should notify a Title V permit writer of draft permit,
 - Public notice should reference both 45CSR13 and Title V permits,
 - EPA has 45 day review period of a draft permit.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

Emissions Information

Williams Ohio Valley Midstream LLC (OVVM)
CAVENY COMPRESSOR STATION
 Application for Class II Administrative Permit Update

Controlled Emissions

Controlled Potential to Emit (PTE) Summary - Criteria Pollutants

Unit ID	Point ID	Control ID	Description	NOx	CO	VOC	SOx	PM10/2.5
				lb/hr	tpy	lb/hr	tpy	lb/hr
CE-01	1E	na	Caterpillar Engine	7.71	33.76	0.12	0.55	0.02
RBV-1	2E	na	Dehydrator Reboiler	0.02	0.10	0.001	0.001	0.002
RSV-1	3E	na	Dehydrator Still Vent/Flash Tank	---	---	13.27	58.13	---
T01	4E	na	Produced Water Tank	---	---	0.02	0.21	---
TLO	5E	na	Truck Loadout	---	---	---	0.25	---
SSM	6E	na	Startup/Shutdown/Maintenance	---	---	---	2.83	---
FUG	7E	na	Process Piping Fugitives	---	---	2.46	10.77	---

TOTAL PTE:
 WV-DEP Permit Threshold:
 Title V Permit Threshold:

7.73	33.85	0.47	2.07	15.88	72.74	0.001	0.004	0.03
6 lb/hr	AND 10 tpy	6 lb/hr						
---	100	---	100	---	100	---	100	---

Controlled Potential to Emit (PTE) Summary - Hazardous Air Pollutants (HAPs)

Unit ID	HCHO (HAP)	n-Hexane	Benzene	Toluene	Ethylbenzene	Xylenes	Total HAP
	lb/hr	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
CE-01	0.07	---	0.002	0.001	0.00003	0.0002	0.08
RBV-1	---	0.0004	---	---	---	---	0.0004
RSV-1	---	0.22	0.14	0.62	0.14	1.30	2.42
T01	---	---	0.002	---	---	---	0.006
TLO	---	---	---	---	---	---	---
SSM	---	---	---	0.008	0.008	---	0.03
FUG	---	0.15	0.05	0.05	0.05	0.05	0.34

PTE:	0.07	0.36	1.67	0.67	0.83	1.35	2.85
WV-DEP:	2 lb/hr	OR 0.5 tpy	2 lb/hr	OR 5 tpy	2 lb/hr	OR 5 tpy	2 lb/hr
Title V:	---	10	---	10	---	10	---

- Notes:
- 1 - Emissions are based on operation at 100% of rated load for 8,760 hrs/yr.
 - 2 - VOC is volatile organic compounds, as defined by EPA, and includes HCHO (formaldehyde).
 - 3 - PM10/2.5 is filterable and condensable particulate matter, including PM10 and PM2.5.
 - 4 - HCHO is formaldehyde; Total HAP includes HCHO, n-hexane, BTEX (benzene, toluene, ethylbenzene, xylene), acetaldehyde, acrolein, and methanol.

Piping and Equipment Fugitives - Gas & Water/Oil

Unit ID (Point ID)	Description	Component (Unit) Type (Gas)	Unit Count	THC Factor lb/hr/Unit	LDAR Control Credit	Hydrocarbons (THC) lb/hr tpy	VOC lb/hr tpy	n-Hexane 0.85 Wgt% lb/hr tpy	BTEX, TMP-ea 0.34 Wgt% lb/hr tpy	Total HAP 1.50 Wgt% lb/hr tpy	CO2 0.58 Wgt% lb/hr tpy	CH4 100.00 Wgt% lb/hr tpy	CO2e GWP = 25 lb/hr tpy	
FUG-G (7E)	Process Piping Fugitives (Gas)	Valves	242	0.00992	0%	2.40	10.49	0.02	8.1E-03	0.04	0.01	2.40	60	
		Pump Seals	0	---	---	---	---	---	---	---	---	---	---	262
		Other	72	0.01940	0%	1.40	6.12	0.42	4.7E-03	0.02	0.02	8.1E-03	1.40	35
		Connectors	1,176	0.00044	0%	0.52	2.27	0.16	4.4E-03	0.02	7.8E-03	3.0E-03	0.52	13
		Flanges	200	0.00086	0%	0.17	0.75	0.05	1.5E-03	5.9E-04	2.6E-03	9.9E-04	0.17	4
		Open-ended	29	0.00441	0%	0.13	0.55	0.04	1.1E-03	4.3E-04	1.9E-03	7.3E-04	0.13	3
				Pre-Controlled:		4.61	20.18	1.38	6.05	0.07	0.03	4.61	115	
				Controlled:		4.61	20.18	1.38	6.05	0.07	0.03	4.61	505	

Unit ID (Point ID)	Description	Component (Unit) Type (Light Liquid)	Unit Count	THC Factor lb/hr/Unit	LDAR Control Credit	Hydrocarbons (THC) lb/hr tpy	VOC lb/hr tpy	n-Hexane 10.00 Wgt% lb/hr tpy	BTEX, TMP-ea 3.00 Wgt% lb/hr tpy	Total HAP 25.00 Wgt% lb/hr tpy	CO2 --- Wgt% lb/hr tpy	CH4 --- Wgt% lb/hr tpy	CO2e GWP = 25 lb/hr tpy
FUG-W (7E)	Process Piping Fugitives (Light Liquid)	Valves	59	0.00551	0%	0.32	1.41	0.03	9.7E-03	0.04	---	---	---
		Pump Seals	6	0.02865	0%	0.17	0.75	0.02	0.01	0.02	0.04	---	---
		Other	24	0.01653	0%	0.40	1.74	0.40	0.01	0.05	0.10	---	---
		Connectors	366	0.00046	0%	0.17	0.74	0.17	5.1E-03	0.02	0.04	---	---
		Flanges	26	0.00024	0%	6.2E-03	0.03	6.2E-03	1.9E-04	8.1E-04	1.5E-03	---	---
		Open-ended	3	0.00309	0%	0.01	0.04	0.01	9.3E-04	4.1E-03	2.3E-03	---	---
				Pre-Controlled:		1.08	4.71	0.11	0.03	0.14	---	---	
				Controlled:		1.08	4.71	0.11	0.03	0.14	---	---	

TOTAL PRE-CONTROLLED FUGITIVE EMISSIONS:

TOTAL CONTROLLED FUGITIVE EMISSIONS:

Notes: 1 - Assumed 8,760 hours per year of fugitive emissions.

2 - Gas and Light Liquid emissions calculated using EPA Protocol for Equipment Leak Emission Estimates, EPA-453/R-95-017, Nov 1995.

3 - Components in Gas Service are based on field verification plus a

4 - Components in Light Liquid Service are based on field verification plus a

5 - "Other" components include compressor seals, relief valves, diaphragms, drains, meters, etc.

6 - To be conservative, the following gas characteristics were assumed:

50%	margin
50%	margin

O&G PROD (AVE)	Gas		Light Liquid	
	kg/hr	lb/hr	kg/hr	lb/hr
Valves	4.5E-03	0.00992	2.5E-03	0.00551
Pump Seals	na	na	1.3E-02	0.02865
Others	8.8E-03	0.01940	7.5E-03	0.01653
Connectors	2.0E-04	0.00044	2.1E-04	0.00046
Flanges	3.9E-04	0.00086	1.1E-04	0.00024
Open-Ended Lines	2.0E-03	0.00441	1.4E-03	0.00309

Pollutant	Gas		Light Liquid	
	Analysis	Estimated	Analysis	Estimated
Carbon Dioxide	0.37 Wgt%	0.58 Wgt%	---	---
Methane	50.92 Wgt%	100.00 Wgt%	---	---
VOC	25.39 Wgt%	30.00 Wgt%	100.00 Wgt%	---
n-Hexane	0.39 Wgt%	0.85 Wgt%	10.00 Wgt%	---
BTEX, TMP-ea	0.03 Wgt%	0.34 Wgt%	3.00 Wgt%	---
Total HAP	0.46 Wgt%	1.50 Wgt%	25.00 Wgt%	---

ATTACHMENT P

Public Notice

"32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and Example Legal Advertisement for details). Please submit the **Affidavit of Publication** as Attachment P immediately upon receipt."

- Legal Advertisement (as shown) will be placed in a newspaper of general circulation in the area where the source is located (See 45CSR§13-8.3 through 45CSR§13-8.5).
- An Affidavit of Publication shall be submitted immediately upon receipt.

**ATTACHMENT P
Public Notice**

**Williams Ohio Valley Midstream LLC (OVM)
CAVENEY COMPRESSOR STATION
Application for Class II Administrative Permit Update**

**AIR QUALITY PUBLIC NOTICE
Notice of Application**

Notice is given that Williams Ohio Valley Midstream LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Class II Administrative Permit Update for an existing natural gas compressor station off State Route 250 approximately 3 miles SE of Moundsville in Marshall County, WV. The latitude and longitude coordinates are 39.8918 and - 80.6813 degrees.

The applicant estimates the increase/(decrease) in the potential to discharge the following regulated air pollutants will be:

0.00 tons of nitrogen oxides per year
0.00 tons of carbon monoxide per year
6.01 tons of volatile organic compounds per year
0.00 tons of sulfur dioxide per year
0.00 tons of particulate matter per year
0.00 tons of formaldehyde per year
0.20 tons of benzene per year
0.20 tons of ethylbenzene per year
0.20 tons of toluene per year
0.16 tons of xylenes per year
1.24 tons of total hazardous air pollutants per year
433 tons of carbon dioxide equivalent per year

The facility is currently operating and written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1227, during normal business hours.

Dated this the 19th day of May 2015.

By: Mr. Don Wicburg, Vice President and General Manager
Williams Ohio Valley Midstream LLC
Park Place Corporate Center 2
2000 Commerce Drive
Pittsburgh, PA 15275

APPLICATION FEE

NSR Permit Modification

Include a check payable to WVDEP – Division of Air Quality.

Any permittee other than a small business as defined in section 507(c) of the federal Clean Air Act which requests a Class II administrative update to a valid existing permit pursuant to this section shall submit a permit application fee of three hundred dollars (**\$300**).

Additional charges may apply, depending on the nature of the application as outlined in Section 3.4.b. of Regulation 22, and shown below:

- NSPS Requirements:	\$1,000	NA
- NESHAP Requirements:	\$2,500	NA
- New Major Source:	\$10,000	NA
- Major Modification:	\$5,000	NA

Total application fee is **\$300**



WILLIAMS FIELD SERVICES GROUP, INC
 PO BOX 21218
 TULSA, OK 74121-1218

COMPANY NUMBER: 4000
 CHECK NUMBER: 4000110100

PAY DATE	SUPPLIER NO.	SUPPLIER NAME	CHECK TOTAL
03-JUN-15	401733	STATE OF WEST VIRGINIA	300.00

Invoice Date	Invoice Or Credit Memo / Invoice Description	Gross	Discount	Net
01-JUN-15	01-JUN-2015 / AIR PERMIT APPLICATION FEE FOR CAVE	300.00	0.00	300.00
Page Totals			0.00	300.00

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 Company Number: 4000

JPMorgan Chase Bank, N.A. 70-2322/719
 Chicago, IL

Check Number: 4000110100
 Check Date: 03-JUN-15

Three Hundred Dollars And Zero Cents

Pay To The Order Of:
 STATE OF WEST VIRGINIA
 WV DEP - DIVISION OF AIR QUALITY
 601 57TH ST SE
 CHARLESTON, WV 25304 United States

PAY (USD) \$300.00

Donald R Chappel
 Authorized Signature

⑈4000110100⑈ ⑆071923226⑆ 009401167⑈

From: (412) 787-4197
 Danell Zawaski
 WILLIAMS
 2000 Commerce Drive
 Park Place 2
 Pittsburgh, PA 15275

Origin ID: OLA



Ship Date: 04JUN15
 ActWgt: 0.5 LB
 CAD: 104289589/NET3610

Delivery Address Bar Code



SHIP TO: (294) 926-0499 X 1260 BILL SENDER

Beverly Mckeone
 WV Div of Air Quality - Permitting
 601 57th Street, SE

Charleston, WV 25304

Ref # 600000820060034.6228.6325
 Invoice #
 PO #
 Dept #

TUE - 09 JUN AA
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