



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF AIR QUALITY

## AIR POLLUTION CONTROL ACT COMPLIANCE REVIEW FORM

Fully and accurately provide the following information, as specified. Attach additional sheets as necessary.

### Type of Compliance Review Form Submittal (check all that apply)

☒ Original Filing Date of Last Compliance Review Form Filing: \_\_\_\_\_  
☐ Amended Filing \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

### Type of Submittal

☒ New Plan Approval ☒ New Operating Permit ☐ Renewal of Operating Permit  
☐ Extension of Plan Approval ☐ Change of Ownership ☐ Periodic Submission (@ 6 mos)  
☐ Other: \_\_\_\_\_

### SECTION A. GENERAL APPLICATION INFORMATION

Name of Applicant/Permittee/("applicant") (non-corporations-attach documentation of legal name)

Laurel Mountain Midstream, LLC

Address Westpointe Center Three, 1605 Coraopolis Heights Rd

Moon Township, PA 15108

Telephone 412-865-2141 Taxpayer ID# 26-4578063

Permit, Plan Approval or Application ID# GP-5

Identify the form of management under which the applicant conducts its business (check appropriate box)

☐ Individual ☐ Syndicate ☐ Government Agency  
☐ Municipality ☐ Municipal Authority ☐ Joint Venture  
☐ Proprietorship ☐ Fictitious Name ☐ Association  
☐ Public Corporation ☐ Partnership ☒ Other Type of Business, specify below:  
☐ Private Corporation ☐ Limited Partnership Limited Liability Company

Describe below the type(s) of business activities performed.

Natural gas gathering, dehydration and compression.

### SECTION B. GENERAL INFORMATION REGARDING "APPLICANT"

If applicant is a corporation or a division or other unit of a corporation, provide the names, principal places of business, state of incorporation, and taxpayer ID numbers of all domestic and foreign parent corporations (including the ultimate parent corporation), and all domestic and foreign subsidiary corporations of the ultimate parent corporation with operations in Pennsylvania. Please include all corporate divisions or units, (whether incorporated or unincorporated) and privately held corporations. (A diagram of corporate relationships may be provided to illustrate corporate relationships.) Attach additional sheets as necessary.

Unit Name	Principal Places of Business	State of Incorporation	Taxpayer ID	Relationship to Applicant
Laurel Mountain Midstream LLC	Oklahoma	DE	26-4578063	Parent
See attached Organizational Chart				

**SECTION C. SPECIFIC INFORMATION REGARDING APPLICANT AND ITS "RELATED PARTIES"**

**Pennsylvania Facilities.** List the name and location (mailing address, municipality, county), telephone number, and relationship to applicant (parent, subsidiary or general partner) of applicant and all Related Parties' places of business, and facilities in Pennsylvania. Attach additional sheets as necessary.

Unit Name	Street Address	County and Municipality	Telephone No.	Relationship to Applicant
Laurel Mountain Midstream Operating LLC - See Attached				Applicant
Laurel Mountain Midstream Ohio, LLC	1521 Locust Street, Philadelphia, PA 19102			Affiliate

**Provide the names and business addresses of all general partners of the applicant and parent and subsidiary corporations, if any.**

Name	Business Address
Williams Laurel Mountain, LLC	One Williams Center Tulsa, Oklahoma 74172
APL Laurel Mountain, LLC	Westpointe Center Three 1605 Coraopolis Heights Rd Moon Township, PA 15108

**List the names and business address of persons with overall management responsibility for the process being permitted (i.e. plant manager).**

Name	Business Address
Jay Irwin	Westpointe Center Three, 1605 Coraopolis Heights Rd., Moon Township, PA 15108

**Plan Approvals or Operating Permits.** List all plan approvals or operating permits issued by the Department or an approved local air pollution control agency under the APCA to the applicant or related parties that are currently in effect or have been in effect at any time 5 years prior to the date on which this form is notarized. This list shall include the plan approval and operating permit numbers, locations, issuance and expiration dates. Attach additional sheets as necessary.

Air Contamination Source	Plan Approval/ Operating Permit#	Location	Issuance Date	Expiration Date
See Attachment				



**Compliance Background.** (Note: Copies of specific documents, if applicable, must be made available to the Department upon its request.) List all documented conduct of violations or enforcement actions identified by the Department pursuant to the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. Attach additional sheets as necessary. See the definition of "documented conduct" for further clarification. Unless specifically directed by the Department, deviations which have been previously reported to the Department in writing, relating to monitoring and reporting, need not be reported.

Date	Location	Plan Approval/ Operating Permit#	Nature of Documented Conduct	Type of Department Action	Status: Litigation Existing /Continuing or Corrected/Date	Dollar Amount Penalty
06/28/10	Herminie Compressor Station	GP5-65-00979C	Notice of Violation		Continuing	\$0
02/25/11	Shamrock Compressor Station	GP5-26-00588A	Cease Construction Order		Continuing	\$na
03/07/11	Robin Hill Gas Plant	GP5-63-00941B	Notice of Violation		Continuing	\$na
						\$
						\$


List all incidents of deviations of the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. This list must include items both currently known and unknown to the Department. Attach additional sheets as necessary. See the definition of "deviations" for further clarification.

Date	Location	Plan Approval/ Operating Permit#	Nature of Deviation	Incident Status: Litigation Existing/Continuing Or Corrected/Date
na				

**CONTINUING OBLIGATION.** Applicant is under a continuing obligation to update this form using the Compliance Review Supplemental Form if any additional deviations occur between the date of submission and Department action on the application.

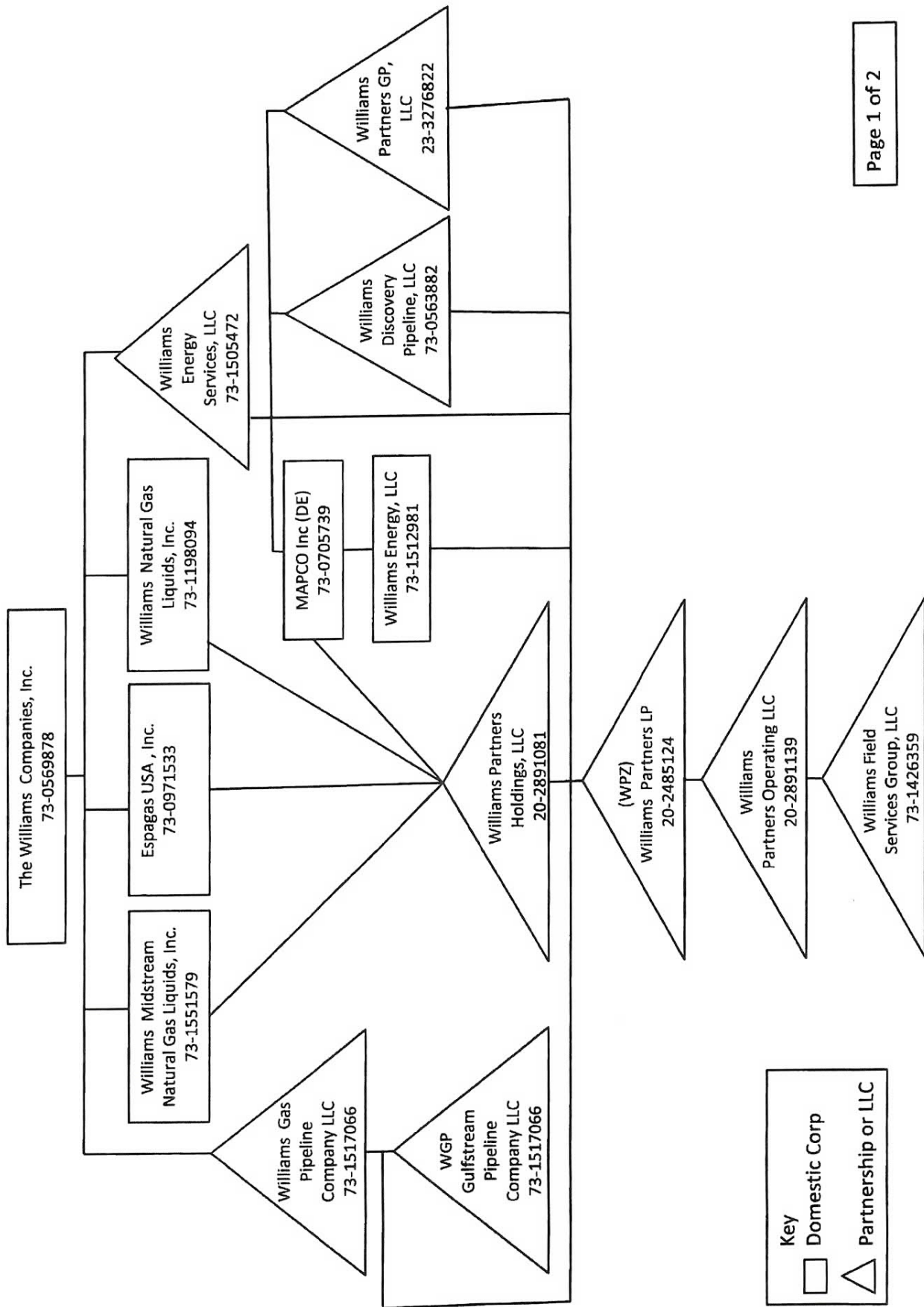
#### VERIFICATION STATEMENT

Subject to the penalties of Title 18 Pa.C.S. Section 4904 and 35 P.S. Section 4009(b)(2), I verify under penalty of law that I am authorized to make this verification on behalf of the Applicant/Permittee. I further verify that the information contained in this Compliance Review Form is true and complete to the best of my belief formed after reasonable inquiry. I further verify that reasonable procedures are in place to ensure that "documented conduct" and "deviations" as defined in 25 Pa Code Section 121.1 are identified and included in the information set forth in this Compliance Review Form.

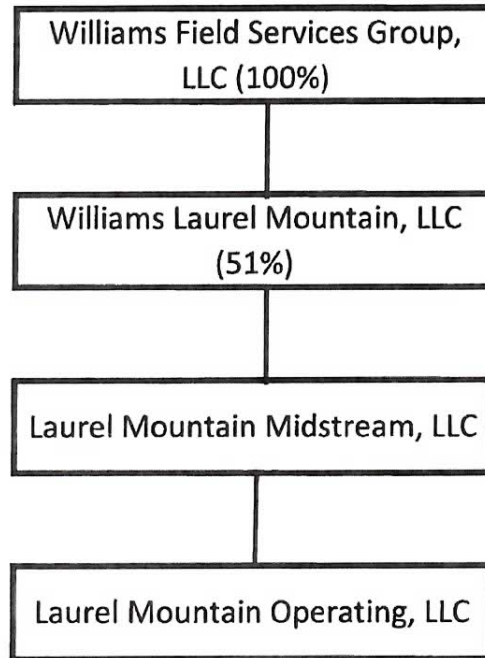

9-7-11

Signature	Date
Jay Irwin	
Name (Print or Type)	
Operations and Technical Services Manager	
Title	

# Ownership Chart for Williams Field Services Group, LLC



## Ownership Chart for Laurel Mountain Midstream, LLC





**TABLE OF SPECIFIC INFORMATION  
REGARDING APPLICANT AND "RELATED PARTIES"**

**LAUREL MOUNTAIN MIDSTREAM OPERATING, LLC**

<b>Unit Name and Type</b>	<b>Street Address</b>	<b>County and Municipality</b>	<b>Relation</b>	<b>Permit #</b>	<b>Issue Expire</b>
Brown Compressor Station	232 Falls Hollow Rd Greensboro, PA 15338	Greene Greene	Subsidiary	GP5-30-00170C	08/11/10 08/11/15
Cantaral Compressor Station	Browns Creek Rd Waynsboro, PA 15370	Greene Franklin	Subsidiary	GP5-30-00196	12/16/10 12/16/15
Ceylon Compressor Station	273 Ullery Rd Carmichaels, PA 15320	Greene Cumberland	Subsidiary	GP5-30-00169B	03/01/10 03/01/15
Clyde Compressor Station	960 Bethel Cemetary Rd New Florence, PA 15944	Indiana West Wheatfield	Subsidiary	GP5-32-00399A	03/01/10 03/01/15
Davis Compressor Station	493 Sharpnack Rd. Jefferson, PA 15344	Greene Jefferson	Subsidiary	GP5-30-00175B	03/01/10 03/01/15
Dunbar Compressor Station	538 Monarch Rd Dunbar, PA 15431	Fayette Dunbar	Subsidiary	GP5-26-00584A	02/05/10 02/05/14
Herminie Compressor Station	348 Apple Mills Rd West Newton, PA 15089	Westmoreland West Newton	Subsidiary	GP5-65-00979C	03/01/10 03/01/15
Howser Compressor Station	255 Morris Hollow Rd Vanderbilt, PA 15486	Fayette Franklin	Subsidiary	GP5-26-00577A	03/01/10 03/01/15
Hurt Compressor Station	Rd 2 North Wilmington Mercer, PA	Mercer Jackson	Subsidiary	GP5-43-300A	01/08/10 01/08/15
Jackson Center Compressor Station	189 Hosack Rd Jackson Center, PA 16133	Mercer Jackson	Subsidiary	GP5-43-301A	01/07/10 01/07/15
Joseph Compressor Station	420 Vanderbilt Rd Connellsville, PA 15425	Fayette Dunbar	Subsidiary	GP5-26-00555B	03/01/10 03/01/15
Lake Wilhelm Compressor Station	223 Grange Rd Deer Creek, PA 16130	Mercer Deer Creek	Subsidiary	GP5-43-331B	01/14/10 12/31/14
Prah Compressor Station	160 Windy Hill Rd McClellandtown, PA 15458	Fayette German	Subsidiary	GP5-26-00546A	02/12/10 02/12/14
Pritts Compressor Station	534 Dawson Scottdale Rd Dawson, PA 15428	Fayette Lower Tyrone	Subsidiary	GP5-26-00578A	03/01/10 03/01/15
Robin Hill Gas Plant	1400 Bigger Rd Bulger, PA 15019	Washington Robinson	Subsidiary	GP5-63-00941B	05/25/11 05/25/16
Salem Compressor Station	171 Tucker Rd New Alexandria, PA 15670	Westmoreland Salem	Subsidiary	GP5-01000A	09/22/09 09/22/14
Shamrock Compressor Station	943 New Salem Rd New Salem, PA 15468	Fayette German	Subsidiary	GP5-26-00588	06/28/10 06/28/15
Springhill Compressor Station	585 Hope Hollow Point Marion, PA 15474	Fayette Springhill	Subsidiary	GP5-63-00587A	12/09/09 12/09/14
Stewart Gas Plant	70 Caldwell Rd Hickory, PA 15340	Washington Mt. Pleasant	Subsidiary	GP5-63-00945B	08/25/09 08/25/14
Townville Compressor Station	14499 Maplewood Rd Randolph, PA 16327	Crawford Randolph	Subsidiary	GP5-20-297A	01/12/10 01/12/15
Union City Compressor Station	17451 Route 8 Union City, PA 16438	Erie Pine Valley	Subsidiary	GP5-25-1014A	02/25/10 02/28/15

**LAUREL MOUNTAIN MIDSTREAM, LLC**  
**Springhill Compressor Station**  
**General Permit BAQ-GPA/GP-5 Permit Application**

**Controlled Emissions**

Potential to Emit (PTE) Summary

Unit	Description	NOx lb/hr tpy	CO lb/hr tpy	VOC lb/hr tpy	SO2 lb/hr tpy	Tot PM lb/hr tpy	HCHO (HAP) lb/hr tpy	Total HAP lb/hr tpy
Engine 2 - 1,340 bhp	Caterpillar G3516 LE	5.91 25.88	5.58 24.46	1.65 7.25 ✓	0.01 0.03	0.11 0.49	0.74 3.23	0.93 4.09
Engine 3 - 1,340 bhp	Caterpillar G3516 LE (w/OxCat)	5.91 25.88	0.55 2.39	0.46 2.02 ✓	0.01 0.03	0.11 0.49	0.08 0.34	0.14 0.59
Facility Wide SSM	Startup/Shutdown/Maintenance	---	---	5.00	---	---	---	---
Dehydrator 1 (25 MMscfd)	Regenerator Vent	---	---	2.12 9.30 ✓	---	---	---	0.75
	Reboiler (0.25 MMBtu/hr)	0.02 0.11	0.02 0.09	0.001 0.006	neg neg	neg neg	neg neg	0.27 1.18
Process Fugitives	Process Piping Fugitives	---	---	0.14 0.63 ✓	---	---	---	0.0005 0.002
Storage Tanks	Condensate/Produced Water	---	---	0.10 0.42 ✓	---	---	---	0.04 0.16
Truck Load-out	Condensate/Produced Water	---	---	0.29	---	---	---	0.002 0.01
		---	---	---	---	---	---	0.01
TOTAL PTE:		11.84 51.86	6.15 26.94	4.48 24.91	0.01 0.06	0.22 0.98	0.82 3.57	1.38 6.80
NSR Threshold (tpy):		100	100	50	100	100	10	25
Shading Indicates Controls are Applied to Establish FEL								

- Notes:
- 1 - Compressor engine emissions are based on rated capacity and operating for 8,760 hours per year.
  - 2 - Total PM is Filterable and Condensable Particulate Matter, including PM10 and PM2.5
  - 3 - HCHO is Formaldehyde; Total HAP includes HCHO, Acetaldehyde, Acrolein, BTEX (Benzene, Toluene, Ethylbenzene, Xylene), Methanol, and n-Hexane.

**LAUREL MOUNTAIN MIDSTREAM, LLC**  
**Springhill Compressor Station**  
**General Permit BAQ-GPA/GP-5 Permit Application**

**Uncontrolled Emissions**

Uncontrolled Emissions Summary

Unit	Description	NOx lb/hr tpy	CO lb/hr tpy	VOC lb/hr tpy	SO2 lb/hr tpy	Tot PM lb/hr tpy	HCHO (HAP) lb/hr tpy	Total HAP lb/hr tpy
Engine 2 - 1,340 bhp	Caterpillar G3516 LE	5.91 25.88	5.58 24.46	1.65 7.25	0.01 0.03	0.11 0.49	0.74 3.23	0.93 4.09
Engine 3 - 1,340 bhp	Caterpillar G3516 LE (w/OxCat)	5.91 25.88	5.47 23.94	1.54 6.73	0.01 0.03	0.11 0.49	0.77 3.36	0.96 4.22
Facility Wide SSM	Startup/Shutdown/Maintenance			5.00				0.75
Dehydrator 1 (25 MMscfd)	Regenerator Vent			2.12 9.30				0.27 1.18
Process Fugitives	Reboiler (0.25 MMBtu/hr)	0.02 0.11	0.02 0.09	0.00 0.01	neg neg	neg neg	neg neg	0.00 0.00
Storage Tanks	Process Piping Fugitives			0.14 0.63				
Truck Load-out	Condensate/Produced Water			0.10 0.42				0.00 0.01
	Condensate/Produced Water			0.29				0.01

Shading Indicates Controls are Applied to Establish FEL

TOTAL PTE:

NSR THRESHOLD:

11.84 51.86 11.07 48.48 2.37 29.62 0.00 0.06 0.98 1.51 6.60 0.27 10.27

100 100 50 100 100 10 25

Notes: 1 - Compressor engine emissions are based on rated capacity and operating for 8,760 hours per year.

2 - Total PM is Filterable and Condensable Particulate Matter; including PM10 and PM2.5

3 - HCHO is Formaldehyde; Total HAP includes HCHO, Acetaldehyde, Acrolein, BTEX (Benzene, Toluene, Ethylbenzene, Xylene), Methanol, and n-Hexane.



LAUREL MOUNTAIN MIDSTREAM, LLC  
Springhill Compressor Station  
General Permit BAQ-GPA/GP-5 Permit Application  
**Greenhouse Gas (GHG) Emissions**

Greenhouse Gas (GHG) Emissions Summary

Unit	Description	Heat Input MMBtu/hr (HHV)	kg/MMBtu: GWP: 1 CO2 tpy	53.02 CO2e tpy	kg/MMBtu: GWP: 21 CH4 tpy	1.00E-03 CO2e tpy	kg/MMBtu: GWP: 310 N2O tpy	1.00E-04 CO2e tpy	TOTAL CO2e tpy
Engine 2 - 1,340 bhp	Caterpillar G3516 LE	11.24	6,353	6,353	34	709	0.011	3.4	7,066
Engine 3 - 1,340 bhp	Caterpillar G3516 LE (w/OxCat)	11.24	6,082	6,082	29	606	0.011	3.4	6,691
Facility Wide SSM	Startup/Shutdown/Maintenance	----	----	----	211	4,428	----	----	4,428
	Regenerator Vent	----	----	----	400	8,400	----	----	8,400
Dehydrator 1 (25 MMscfd)	Reboiler (0.25 MMBtu/hr)	0.28	142	142	0.003	0.06	0.0003	0.08	142
Process Fugitives	Process Piping Fugitives	----	----	----	31.72	666	----	----	666
TOTAL GHG EMISSIONS:									
			12,577	12,577	705	14,810	0.022	7	27,393
GHG MAJOR SOURCE THRESHOLD (CO2e):									
100,000									

- Notes:
- 1 - Engine CO2 and CH4 emissions are based on vendor specifications.
  - 2 - SSM CH4 emissions are based on vendor specifications and operational experience.
  - 3 - Dehydrator Regenerator emissions are uncontrolled.
  - 4 - Process Piping CH4 emissions are based on EPA Fugitive Emission Factors for Oil and Gas Production Operations.
  - 5 - All other GHG emissions are based on default values in 40CFR98, Subpart C, Table C-1.
  - 6 - High Heat Value (HHV) = Nominal Heat Input Rating/0.90 for external combustion sources (i.e., boilers and flare).

**ATTACHMENT C**  
**EMISSION CALCULATIONS**

- Potential To Emit (PTE) Summary
- Uncontrolled Emissions Summary
- Greenhouse Gas Emissions Summary
- Engine Combustion Emission Calculations
- Startup/Shutdown/Maintenance (SSM) Emission Calculations
- Dehydrator Emission Calculations
- Piping Fugitive (Gas/Vapor) Emission Calculations
- Storage Tank (Liquid) Emission Calculations
- Truck Loading (Liquid) Emission Calculations

**LAUREL MOUNTAIN MIDSTREAM, LLC**  
**Springhill Compressor Station**  
**General Permit BAQ-GPA/GP-5 Permit Application**

**Engine Emissions**

Engine Combustion PTE Calculations

Unit	Description	Pollutant	Reference	Uncontrolled		Eff. (%)	Controlled	
				g/bhp-hr	lb/hr	%	g/bhp-hr	lb/hr
Engine 2	Caterpillar (CAT) G3516LE (4SLB)  Mfr Date: 04/07/06 1,340 bhp 10.11 MMBtu/hr (HHV) 8,760 hr/yr	NOX	Vendor Specs	2.00	5.91	0.0%	2.00	5.91
		CO	Vendor Specs	1.89	5.58	0.0%	1.89	5.58
		NMNEHC	Vendor Specs	0.31	0.92	0.0%	0.31	0.92
		VOC	Vendor Specs	0.56	1.65	0.0%	0.56	1.65
		SO2	AP-42 Table 3.2-2	0.002	0.01	0.0%	0.00	0.01
		PM-Total	AP-42 Table 3.2-2	0.04	0.11	0.0%	0.04	0.11
		HCHO	Vendor Specs	0.25	0.74	0.0%	0.25	0.74
		HAP-Total	Sum	0.32	0.93	--	0.32	0.93
		CO2	Vendor Specs	491	1,451	0.0%	491	1,451
		CH4	Vendor Specs	2.61	7.7	0.0%	2.61	7.7
Engine 3 (w/OxCat)	Caterpillar (CAT) G3516LE (4SLB)  Mfr Date: 1/31/2006 1,340 bhp 10.11 MMBtu/hr (HHV) 8,760 hr/yr	NOx	Vendor Specs	2.00	5.91	0.0%	2.00	5.91
		CO	Vendor Specs	1.85	5.47	90.0%	0.19	0.55
		NMNEHC	Vendor Specs	0.26	0.77	50.0%	0.13	0.38
		VOC	Vendor Specs	0.52	1.54	70.0%	0.16	0.46
		SO2	AP-42 Table 3.2-2	0.00	0.01	0.0%	0.00	0.01
		PM-Total	AP-42 Table 3.3-2	0.04	0.11	0.0%	0.04	0.11
		HCHO	Vendor Specs	0.26	0.77	90.0%	0.03	0.08
		HAP-Total	Sum	0.33	0.96	--	0.05	0.14
		CO2	Vendor Specs	470	1,388	0.0%	470	1,388
		CH4	Vendor Specs	2.23	6.6	0.0%	2.23	6.6

- Notes:
- 1 - All compressor engines are assumed to operate at 100% of rated load for 8,760 hrs/yr.
  - 2 - As per CAT Engine Specifications, NMNEHC (non-methane/non-ethane hydrocarbons) do not include HCHO. VOC is the sum of NMNEHC and HCHO.
  - 3 - HCHO is Formaldehyde; Total HAPs include HCHO, Acetaldehyde, Acrolein, BTEX (Benzene, Toluene, Ethylbenzene, Xylene), Methanol, and n-Hexane.
  - 4 - The control efficiency (CE) for each HAP is assumed to be the same as the CE for VOC, except for HCHO where the vendor provides specific data.
  - 5 - Total PM is Filterable and Condensable Particulate Matter, including PM10 and PM2.5