

GP5-26-00587B

ASPL /
HISTORY /
Fee /

Auth # 894174
Site # 720794
CInt # 274129
APS # 759362
PF # 719219
SF #

707379



Laurel Mountain Midstream, LLC
Westpointe Center Three
1605 Coraopolis Heights Rd.
Moon Township, PA 15108
(412) 865-2174
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September 6, 2011

Mark Gorog
New Source Review Program Manager
Air Quality Program
Southwest Regional Office
Pennsylvania Department of Environmental Protection
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222



**Subject: Application for General Plan Approval and General Operating Permit for Natural Gas Production Facilities (BAQ-GPA/GP-5); Springhill Compressor Station
Laurel Mountain Midstream Operating, LLC**

Dear Mr. Gorog:

On behalf of Laurel Mountain Midstream, LLC (LMM), Williams Midstream Field Services (Williams) is submitting an application for a General Plan Approval and General Operating Permit for the existing Springhill Compressor Station, near Springhill Township, Fayette County, Pennsylvania. The application is being submitted to establish self-imposed, federally enforceable emission limitations for the facility and equipment to allow the Springhill Compressor Station to remain a minor source of emissions. No physical changes are being made at the facility with this permit application.

The existing equipment and operations are in full conformance with the GP-5 permit requirements. With the requested federally enforceable limitations (FEL), the facility qualifies as a synthetic minor source under New Source review (NSR), Prevention of Significant Deterioration (PSD), and Title V Operating Permits.

The facility is also an area source for HAPs under the National Emission Standards for Hazardous Air Pollutants (NESHAP) and a minor source of Carbon Dioxide equivalent (CO₂e) under the Greenhouse Gas (GHG) regulations.

LMM is providing self-imposed elective emission restrictions for the Springhill Compressor Station. As identified in the attached BAQ-GPA/GP-5 permit application, LMM requests the following federally enforceable emission restrictions for the reciprocating engines and other equipment at the facility:

Federally Enforceable Emission Restrictions - Engines

Unit	Description	Pollutant	Emission Rates		
			g/bhp-hr	lb/hr	tpy
Engine 2	Caterpillar (CAT) G3516LE (4SLB)	NOX	2.00	5.91	25.88
		CO	1.89	5.58	24.46
		VOC	0.56	1.65	7.25
		HCHO	0.25	0.74	3.23
Engine 3 (w/OxCat)	Caterpillar (CAT) G3516LE (4SLB)	NOx	2.00	5.91	25.88
		CO	0.19	0.55	2.39
		VOC	0.16	0.46	2.02
		HCHO	0.03	0.08	0.34

Federally Enforceable Emission Restrictions – All Equipment

Unit	Description	NOx		CO		VOC		HCHO (HAP)	
		lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
Engine 2 - 1,340 bhp	Caterpillar G3516 LE	5.91	25.88	5.58	24.46	1.65	7.25	0.74	3.23
Engine 3 - 1,340 bhp	Caterpillar G3516 LE (w/OxCat)	5.91	25.88	0.55	2.39	0.46	2.02	0.08	0.34
Facility Wide SSM	Startup/Shutdown/Maintenance	---	---	---	---	---	5.00	---	---
Dehydrator 1 (25 MMscfd)	Regenerator Vent	---	---	---	---	2.12	9.30	---	---
	Reboiler (0.25 MMBtu/hr)	0.02	0.11	0.02	0.09	0.001	0.006	neg	neg
Process Fugitives	Process Piping Fugitives	---	---	---	---	0.14	0.63	---	---
Storage Tanks	Condensate/Produced Water	---	---	---	---	0.10	0.42	---	---
Truck Load-out	Condensate/Produced Water	---	---	---	---	---	0.29	---	---

TOTAL PTE: **11.84 51.86 6.15 26.94 4.48 24.91 0.82 3.57**

51.86

51.86


36.97

Further discussion regarding the specific equipment, federally enforceable emission limitations, applicability of federal regulations, a process flow diagram, and a location map, are in Attachment A. The General Permit Application Forms are in Attachment B; Emission Calculations are in Attachment C, and various Supporting Documents are in Attachment D.

Mark Gorog
Southwest Regional Office - PADEP
September 6, 2011
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If you have any questions concerning this submittal or need additional information, please contact me at (412) 865-2174 (office) or (307) 871-2347 (cell).

Sincerely,



Dick Baker
Senior Environmental Specialist

Attachment A – Permit Application Supplement
Attachment B – Permit Application Forms
Attachment C – Emission Calculations
Attachment D – Supporting Documents