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G70-D GENERAL PERMIT ENGINEERING EVALUATION

PREVENTION AND CONTROL OF AIR POLLUTION IN REGARD TO THE CONSTRUCTION, MODIFICATION, RELOCATION, ADMINISTRATIVE UPDATE AND OPERATION OF NATURAL GAS PRODUCTION FACILITIES LOCATED AT THE WELL SITE

APPLICATION NO.: G70-D**231**	FACILITY ID: **069-00130**

- ☐ CONSTRUCTION
- ☒ MODIFICATION
- ☐ RELOCATION
- ☐ CLASS I ADMINISTRATIVE UPDATE
- ☐ CLASS II ADMINISTRATIVE UPDATE

BACKGROUND INFORMATION

Name of Applicant (as registered with the WV Secretary of State's Office): SWN Production Company, LLC

Federal Employer ID No. (FEIN): 26-4388727

Applicant's Mailing Address: 10000 Energy Drive
City: Spring State: TX ZIP Code: 77389

Facility Name: Shawn Couch Pad

Operating Site Physical Address: 665 Harvey Road
If none available, list road, city or town and zip of facility.
City: West Liberty Zip Code: 26074 County: Ohio

Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
Latitude: 40.14876
Longitude: -80.58387

SIC Code: 1311 NAICS Code: 211111	Date Application Received: December 19, 2016
Fee Amount: $1,500	Date Fee Received: December 23, 2016
Applicant Ad Date: December 22, 2016	Newspaper: *Intelligencer*
Date Application Complete: February 21, 2017	Due Date of Final Action: April 7, 2017

Engineer Assigned: David Keatley

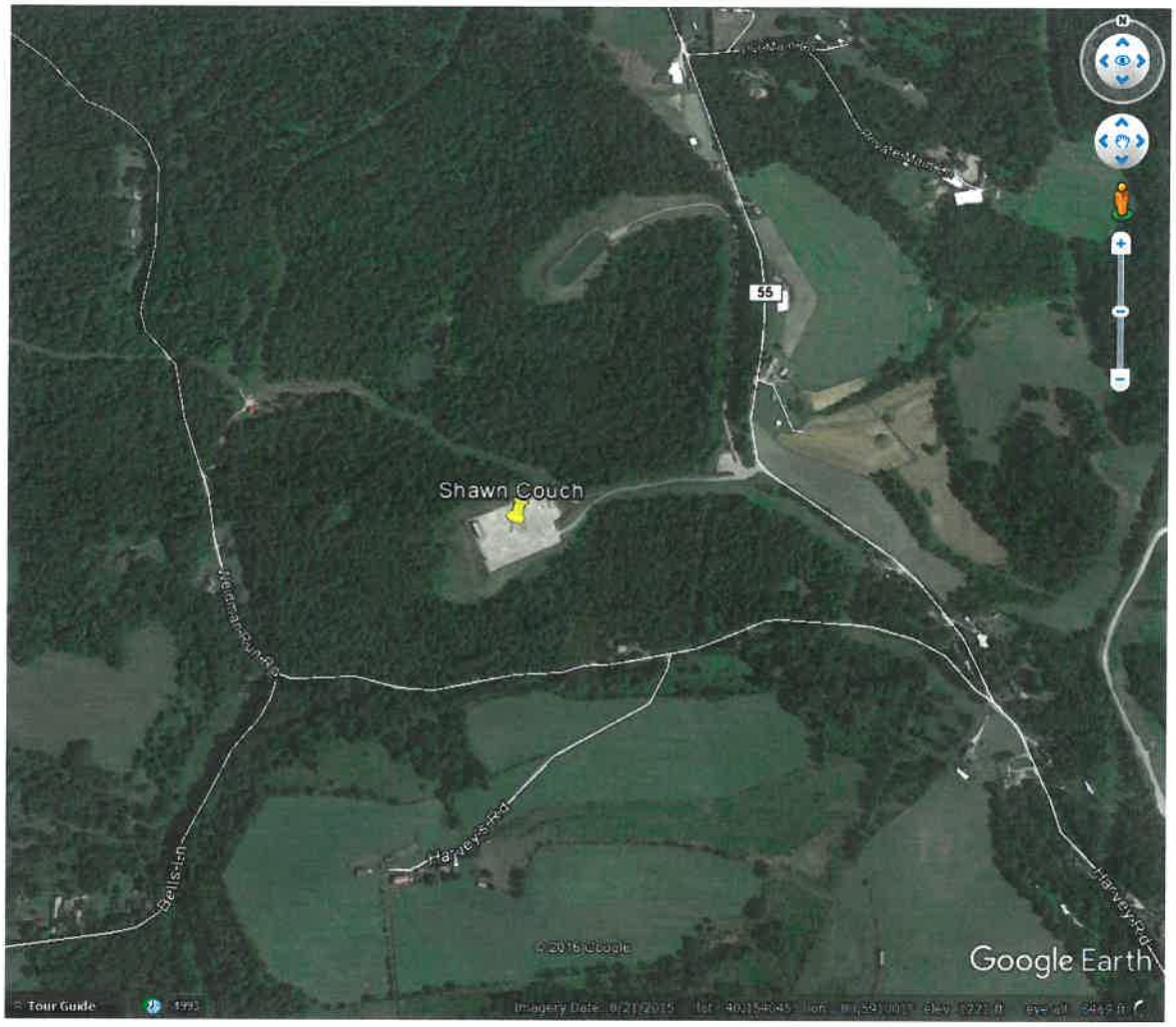
Description of Permitting Action: Installation and operation of: two (2) 145-bhp compressor engines, three (3) 1.0-mmBtu/hr GPU burners, two (2) 1.5-mmBtu/hr stabilizer heaters, two (2) 400-bbl produced water tanks, two (2) 400-bbl condensate tanks, and increases in produced water and condensate throughput. Removal of two (2) 0.5-mmBtu/hr heater treaters.

PROCESS DESCRIPTION

Raw natural gas from five (5) natural gas wells is heated by five (5) 1.0-mmBtu/hr gas production unit (GPU) burners to promote phase separation. The gas from the GPU exits the facility via pipeline. Produced water from the GPUs goes to four (4) 400-bbl produced water tanks. Condensate from the GPUs goes to two (2) 1.5-mmBtu/hr stabilizer heaters. The gas from the stabilizer heaters is compressed by two (2) four-stroke rich-burn Caterpillar G3306B TA 204-bhp flash gas compressors and exits the facility via pipeline. The compressors are powered by two (2) 145-bhp Caterpillar G3306B TA natural gas fired engines equipped non-selective catalysts. The produced water from the stabilizer heaters goes to the produced water tanks. The condensate from the stabilizer heaters goes to eight (8) 400-bbl condensate tanks. The working, breathing, flashing, and captured loading losses are controlled by one (1) MRW Technologies 30-mmBtu/hr combustor.

SITE INSPECTION

Site Inspection Date: August 30, 2012
Site Inspection Conducted By: Steven J. Sobutka
Results of Site Inspection: The site is very remote farm land. The closest residence is well over 1,000 ft. on Harvey Road. The well site sits below grade of Harvey.
Did Applicant meet Siting Requirements? Yes
If applicable, was siting criteria waiver submitted? Not Applicable
Directions to Facility: From I 70 take exit 5 (Triadelphia/Elm Grove) and turn right onto US 40. Travel east on Rt. 40 for approximately 7.8 miles to the intersection of US 40 and CR 45. Turn left onto CR 45 and travel 0.87 miles, turn left to stay on CR 45. Turn right onto CR 37 (Greggsville Clinton and Potomac Rd.). After travelling approximately 1.88 miles from where CR turned left, turn right onto CR 7/3 (Weidman Run Road). Bear right after traveling approximately 0.32 miles onto CR 55 (West Liberty-Harvey Road). Well pad access will be on the left 0.32 miles after turning onto CR 55.



ESTIMATE OF EMISSIONS BY REVIEWING ENGINEER

The following table indicates which methodology was used in the emissions determination:

Emission Unit ID#	Process Equipment	Calculation Methodology (e.g. ProMax, GlyCalc, mfg. data, AP-42, etc.)
EU-ENG1 and EU-ENG2	Caterpillar G3306 Engine	EPA AP-42 and manufacturer data
EU-GPU1 through EU-GPU5	GPU Burners	EPA AP-42 emission factors
EU-SH1 and EU-SH2	Stabilizer Heaters	EPA AP-42 emission factors
EU-TANKS-COND	Condensate Tanks	ProMax
EU-TANKS-PW	Produced Water Tanks	ProMax
EU-LOAD-PW	Produced Water Truck Loading	EPA AP-42 equation
EU-LOAD-COND	Condensate Truck Loading	EPA AP-42 equation
APC-COMB	Vapor Combustor	EPA AP-42 emission factors

The total facility PTE for the facility (excluding fugitive emissions) is shown in the following table:

Pollutant	Facility Wide PTE (tons/year)
Nitrogen Oxides	25.97
Carbon Monoxide	47.33
Volatile Organic Compounds	62.76
Particulate Matter	0.98
Particulate Matter-10/2.5	0.98
Sulfur Dioxide	0.03
Formaldehyde	0.90
Benzene	0.08
Toluene	0.29
Ethylbenzene	0.33
Xylenes	1.05
Hexane	4.21
Total HAPs	7.00
Carbon Dioxide Equivalent	21,696

The following table lists the estimated maximum controlled PTE:

Emission Point ID	Emission Source	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)
EP-ENG1 and EP-ENG2	Flash Gas Compressor Engine Caterpillar 3306B TA	Nitrogen Oxides	0.45	1.96
		Carbon Monoxide	0.90	3.92
		Volatile Organic Compounds	0.20	0.88
		Total Particulate Matter	0.02	0.08
		PM_{10}	0.02	0.08
		Formaldehyde	0.10	0.45
		CO_2e	246	1,076
EP-GPU1 Through EP-GPU5	GPU Burners 1.0 mmBtu/hr (Emissions from Each)	Nitrogen Oxides	0.11	0.48
		Carbon Monoxide	0.09	0.39
		Volatile Organic Compounds	0.01	0.03
		Total Particulate Matter	0.01	0.04
		PM_{10}	0.01	0.04
		CO_2e	118	513
EP-SH1 and EP-SH2	Stabilizer Heaters 1.5 MMBTU/hr (Emissions from Each)	Nitrogen Oxides	0.17	0.74
		Carbon Monoxide	0.14	0.61
		Volatile Organic Compounds	0.01	0.04
		Total Particulate Matter	0.01	0.06
		PM_{10}	0.01	0.06
		CO_2e	176	770
EP-LOAD-COND	Condensate Truck Loading 30,638,538 gallons/year	Volatile Organic Compounds	4.61	20.20
		Benzene	<0.01	0.02
		n-Hexane	0.31	1.38
		Toluene	0.02	0.09
		Ethylbenzene	0.03	0.11
		Xylenes	0.08	0.35
		CO_2e	1	5

EP-LOAD-PW	Produced Water Truck Loading 38,246,817 gallons/year	Volatile Organic Compounds	0.09	0.40
		n-Hexane	0.01	0.03
		CO_2e	2	6
APC-COMB	Vapor Combustor 30 MMBTU/hr (Controlling condensate tanks, produced water tanks, and truck loading)	Nitrogen Oxides	4.15	18.18
		Carbon Monoxide	8.27	36.24
		Volatile Organic Compounds	9.17	40.18
		Total Particulate Matter	0.09	0.38
		PM_{10}	0.09	0.38
		Benzene	<0.01	0.01
		n-Hexane	0.13	0.57
		Ethylbenzene	0.01	0.04
		Toluene	0.01	0.04
		Xylenes	0.03	0.13
		CO_2e	4,954	21,696

REGULATORY APPLICABILITY

45CSR2 (Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers)

The purpose of 45CSR2 (Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers) is to establish emission limitations for smoke and particulate matter which are discharged from fuel burning units.

45CSR2 states that any fuel burning unit that has a heat input under ten (10) MMBTU/hr is exempt from Sections 4 (weight emission standard), 5 (control of fugitive particulate matter), 6 (registration), 8 (testing, monitoring, recordkeeping, reporting) and 9 (startups, shutdowns, malfunctions). However, failure to attain acceptable air quality in parts of some urban areas may require the mandatory control of these sources at a later date. If the individual heat input of all of the proposed fuel burning units are below 10 MMBTU/hr, these units are exempt from the aforementioned sections of 45CSR2. However, the registrant would be subject to the opacity requirements in 45CSR2, which is 10% opacity based on a six minute block average. Fuel burning units greater than 10 MMBTU/hr are ineligible for registration under General Permit G70-D

Emission Unit ID#	Emission Unit Description	Maximum Design Heat Input (MDHI) (MMBTU/hr)
EU-GPU1 through EU-GPU5	GPU Burners	1.0
EU-SH1 and EU-SH2	Stabilizer Heaters	1.5

45CSR6 (To Prevent and Control Air Pollution from the Combustion of Refuse)

45CSR6 prohibits open burning, establishes emission limitations for particulate matter, and establishes opacity requirements. Sources subject to 45CSR6 include completion combustion devices, enclosed combustion devices, and flares.

The facility-wide requirements of the general permit include the open burning limitations §§45-6-3.1 and 3.2.

All completion combustion devices, enclosed combustion devices, and flares are subject to the particulate matter weight emission standard set forth in §45-6-4.1; the opacity requirements in §§45-6-4-3 and 4-4; the visible emission standard in §45-6-4.5; the odor standard in §45-6-4.6; and, the testing standard in §§45-6-7.1 and 7.2.

Enclosed combustion control devices and flares that are used to comply with emission standards of NSPS, Subpart OOOO are subject to design, operational, performance, recordkeeping and reporting requirements of the NSPS regulation that meet or exceed the requirements of 45CSR6.

Emission Unit ID#	Maximum Design Heat Input (MDHI) (MMBTU/hr)	Subject to Weight Emission Standard?	Control Efficiency Claimed by Registrant	Provide Justification how 45CSR6 is met.
APC-COMB	Vapor Combustor	☒ Yes ☐ No	98%	The estimated total particulate matter emissions from the combustor is 0.09 lb/hr is less than the maximum allowable particulate emissions of 1.21 lb/hr.

45CSR10 (To Prevent and Control Air Pollution from the Emission of Sulfur Oxides)

45CSR10 establishes emission limitations for SO_2 emissions which are discharged from stacks of fuel burning units. A "fuel burning unit" means and includes any furnace, boiler apparatus, device, mechanism, stack or structure used in the process of burning fuel or other combustible material for the primary purpose of producing heat or power by indirect heat transfer. Sources that meet the definition of "Fuel Burning Units" per 45CSR10-2.8 include GPUs, in-line heaters, heater treaters, and glycol dehydration unit reboilers.

Fuel burning units less than 10 MMBtu/hr are exempt. The sulfur dioxide emission standard set forth in 45CSR10 is generally less stringent than the potential emissions from a fuel burning unit for natural gas. The SO_2 emissions from a fuel burning unit will be listed in the G70-D permit registration at the discretion of the permit engineer on a case-by-case basis. Issues such as non-attainment designation, fuel use, and amount of sulfur dioxide emissions will be factors used in this determination. Fuel burning units greater than 10 MMBTU/hr are ineligible for registration under General Permit G70-D

Fuel burning units burning natural gas are exempt from Section 8 (Monitoring, Recording and Reporting) as well as interpretive rule 10A. The G70-D eligibility requirements exclude from eligibility any fuel burning unit that does not use natural gas as the fuel; therefore, there are no permit conditions for 45CSR10.

Emission Unit ID#	Emission Unit Description	Maximum Design Heat Input (MDHI) (MMBTU/hr)
EU-GPU1 through EU-GPU5	GPU Burners	1.0
EU-SH1 and EU-SH2	Stabilizer Heaters	1.5

45CSR13 (Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Administrative Updates, Temporary Permits, General Permits, and Procedures for Evaluation)

45CSR13 applies to this source due to the fact that the applicant is defined as a "stationary source" under 45CSR13 Section 2.24.b. *Stationary source* means, for the purpose of this rule, any building, structure, facility, installation, or emission unit or combination thereof, excluding any emission unit which meets or falls below the criteria delineated in Table 45-13B which: (a) is subject to any substantive requirement of an emission control rule promulgated by the Secretary; (b) discharges or has the potential to discharge more than six (6) pounds per hour and ten (10) tons per year, or has the potential to discharge more than 144 pounds per calendar day, of any regulated air pollutant; (c) discharges or has the potential to discharge more than two (2) pounds per hour or five (5) tons per year of hazardous air pollutants considered on an aggregated basis; (d) discharges or has the potential to discharge any air pollutant(s) listed in Table 45-13A in the amounts shown in Table 45-13A or greater; or, (e) an owner or operator voluntarily chooses to be subject to a construction or modification permit pursuant to this rule, even though not otherwise required to do so. 45CSR13 has an original effective date of June 1, 1974.

The applicant meets the definition of a stationary source because (check all that apply):

- ☒ Subject to a substantive requirement of an emission control rule promulgated by the Secretary.
- ☒ Discharges or has the potential to discharge more than six (6) pounds per hour and ten (10) tons per year, or has the potential to discharge more than 144 pounds per calendar day, of any regulated air pollutant.
- ☒ Discharges or has the potential to discharge more than two (2) pounds per hour or five (5) tons per year of hazardous air pollutants considered on an aggregated basis.
- ☒ Discharges or has the potential to discharge any air pollutant(s) listed in Table 45-13A in the amounts shown in Table 45-13A or greater.
- ☐ Voluntarily chooses to be subject to a construction or modification permit pursuant to this rule, even though not otherwise required to do so.

General Permit G70-D Registration satisfies the construction, modification, relocation and operating permit requirements of 45CSR13. General Permit G70-D sets forth reasonable conditions that enable eligible registrants to establish enforceable permit limits.

Section 5 of 45CSR13 provides the permit application and reporting requirements for construction of and modifications to stationary sources. No person shall cause, suffer, allow or permit the construction, modification, relocation and operation of any stationary source to be commenced without notifying the Secretary of such intent and obtaining a permit to construct, modify, relocate and operate the stationary source as required in the rule or any other applicable rule promulgated by the Secretary.

If applicable, the applicant meets the following (check all that apply):

☐ Construction
☒ Modification
☐ Class I Administrative Update (45CSR13 Section 4.2.a)
☐ Class II Administrative Update (45CSR13 Section 4.2.b)

45CSR16 (Standards of Performance for New Stationary Sources Pursuant to 40 CFR Part 60)

45CSR16 applies to all registrants that are subject to any of the NSPS requirements described in more detail in the Federal Regulations section. Applicable requirements of NSPS, Subparts IIII, JJJJ and OOOO are included in General Permit G70-D.

The applicant is subject to:
☐ 40CFR60 Subpart IIII
☒ 40CFR60 Subpart JJJJ
☒ 40CFR60 Subpart OOOO
☒ 40CFR60 Subpart OOOOa

45CSR22 (Air Quality Management Fee Program)

45CSR22 is the program to collect fees for certificates to operate and for permits to construct or modify sources of air pollution. 45CSR22 applies to all registrants. The general permit fee of $500 is defined in 45CSR13. In addition to the application fee, all applicants subject to NSPS requirements or NESHAP requirements shall pay additional fees of $1,000 and $2,500, respectively.

Registrants are also required to obtain and have in effect a valid certificate to operate in accordance with 45CSR22 §4.1. The fee group for General Permit G70-D is 9M (all other sources) with an annual operating fee of $200.

40CFR60 Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines)

Subpart JJJJ sets forth nitrogen oxides (NOx), carbon monoxide (CO), and volatile organic compound (VOC) emission limits, fuel requirements, installation requirements, and monitoring requirements based on the year of installation of the subject internal combustion engine. The provisions for stationary spark ignition (SI) internal combustion engines for owners or operators of this Subpart have been included in General Permit G70-D, Section 13.

Emission Unit ID#	Engine Description (Make, Model)	Engine Size (HP)	Date of Manufacture	Provide Justification how 40CFR60 Subpart JJJJ is met.
EU-ENG1	Caterpillar 3306B	203	May 9, 2014	☒ Met Emission Standard ☐ Certified Engine
EU-ENG2	Caterpillar 3306B	203	October 11, 2012	☒ Met Emission Standard ☐ Certified Engine

40CFR60, Subpart OOOO (Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced after August 23, 2011, and on or before September 18, 2015)

EPA published its New Source Performance Standards (NSPS) and air toxics rules for the oil and gas sector on August 16, 2012. EPA published amendments to the Subpart on September 23, 2013 and June 3, 2016.

40CFR60 Subpart OOOO establishes emission standards and compliance schedules for the control of volatile organic compounds (VOC) and sulfur dioxide (SO_2) emissions from affected facilities that commence construction, modification or reconstruction after August 23, 2011 and on or before September 18, 2015. The affected sources which commence construction, modification or reconstruction after August 23, 2011 and on or before September 18, 2015 are subject to the applicable provisions of this Subpart as described below:

Gas well affected facilities are included in General Permit G70-D in Section 5.0.
Are there any applicable gas well affected facilities? ☒ Yes ☐ No
If Yes, list.

API Number	Date of Flowback	Date of Well Completion	Green Completion and/or Combustion Device	Subject to OOOO?
470-690-00720	11/14/2012	9/19/2011	Green	Yes
470-690-01050	12/13/2012	6/8/2012	Green	Yes

Each centrifugal compressor affected facility, which is a single centrifugal compressor using wet seals that is located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment. A centrifugal compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this Subpart.

Each reciprocating compressor affected facility, which is a single reciprocating compressor located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment. A reciprocating compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this subpart.

Pneumatic controllers affected facilities are included in General Permit G70-D, Section 10.0.
Are there any applicable pneumatic controller affected facilities? ☐ Yes ☒ No

For the natural gas production segment (between the wellhead and the point of custody transfer to the natural gas transmission and storage segment and not including natural gas processing plants), each pneumatic controller affected facility, which is a single continuous bleed natural gas-driven pneumatic controller operating at a natural gas bleed rate greater than 6 scfh.

Requirements for storage vessel affected facilities are included in General Permit G70-D, Section 7.0. Determination of storage vessel affected facility status is included in Section 6.0 of General Permit G70-D.
Are there any applicable storage vessel affected facilities? ☐ Yes ☒ No
If No, list any emission reduction devices and control efficiencies used to avoid 40CFR60 Subpart OOOO.
Vapor Combustor APC-COMB will be used to control at least 98% of vapors coming from the condensate and produced water tanks.

Each storage vessel affected facility, which is a single storage vessel located in the oil and natural gas production segment, natural gas processing segment or natural gas transmission and storage segment, and has the potential for VOC emissions equal to or greater than 6 tpy as determined according to this section by October 15, 2013 for Group

1 storage vessels and by April 15, 2014, or 30 days after startup (whichever is later) for Group 2 storage vessels. A storage vessel affected facility that subsequently has its potential for VOC emissions decrease to less than 6 tpy shall remain an affected facility under this subpart.

40CFR60, Subpart OOOOa (Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced after September 18, 2015)

EPA published its New Source Performance Standards (NSPS) and air toxics rules for the oil and gas sector on August 16, 2012. EPA published amendments to the Subpart on September 23, 2013 and June 3, 2016.

40CFR60 Subpart OOOOa establishes emission standards and compliance schedules for the control of the pollutant greenhouse gases (GHG). The greenhouse gas standard in this subpart is in the form of a limitation on emissions of methane from affected facilities in the crude oil and natural gas source category that commence construction, modification or reconstruction after September 18, 2015. This subpart also establishes emission standards and compliance schedules for the control of volatile organic compounds (VOC) and sulfur dioxide (SO_2) emissions from affected facilities that commence construction, modification or reconstruction after September 18, 2015. The effective date of this rule is August 2, 2016.

For each well site, the registrant must reduce GHG (in the form of a limitation on emissions of methane) and VOC emissions by complying with fugitive emissions monitoring as required in §60.5397a and the alternative means of emission limitations in §60.5398a.

Gas well affected facilities are included in General Permit G70-D in Section 5.0.
Are there any applicable gas well affected facilities? ☒ Yes ☐ No
If Yes, list.

API Number	Date of Flowback	Date of Well Completion	Green Completion and/or Combustion Device	Subject to OOOOa?
470-690-02050	To Be Determined (TBD)	TBD	Green	Yes
470-690-02060	TBD	TBD	Green	Yes
470-690-02070	TBD	TBD	Green	Yes

Each centrifugal compressor affected facility, which is a single centrifugal compressor using wet seals. A centrifugal compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this Subpart.

Each reciprocating compressor affected facility, which is a single reciprocating compressor. A reciprocating compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this subpart.

Pneumatic controllers affected facilities are included in General Permit G70-D, Section 10.0.
Are there any applicable pneumatic controller affected facilities? ☐ Yes ☒ No

Each pneumatic controller affected facility not located at a natural gas processing plant, which is a single continuous bleed natural gas-driven pneumatic controller operating at a natural gas bleed rate greater than 6 scfh.

Requirements for storage vessel affected facilities are included in General Permit G70-D, Section 7.0.
Are there any applicable storage vessel affected facilities? ☐ Yes ☒ No

If No, list any emission reduction devices and control efficiencies used to avoid 40CFR60 Subpart OOOO.
Vapor Combustor APC-COMB will be used to control at least 98% of vapors coming from the condensate and produced water tanks.

Each storage vessel affected facility, which is a single storage vessel with the potential for VOC emissions equal to or greater than 6 tpy as determined according to this section.

Fugitive Emissions GHG and VOC Standards affected facilities are included in General Permit G70-D in Section 12.0.
Did the registrant commence construction, modification, or reconstruction of the well site after September 18, 2015 and is subject to §60.5397a? ☒ Yes ☐ No

For the purposes of §60.5397a, a "modification" to a well site occurs when a new well is drilled at an existing well site, a well at an existing well site is hydraulically fractured, or a well at an existing well site is hydraulically refractured.

A well site that only contains one or more wellheads is not an affected facility under this subpart. The affected facility status of a separate tank battery surface site has no effect on the affected facility status of a well site that only contains one or more wellheads.

Requirements for pneumatic pump affected facilities are included in General Permit G70-D, Section 16.0.
Are there any applicable pneumatic pump affected facilities at the well site? ☐ Yes ☒ No

Each pneumatic pump affected facility at the well site, which is a single natural gas-driven diaphragm pump. A single natural gas-driven diaphragm pump that is in operation less than 90 days per calendar year is not an affected facility under this subpart as well as the required records are kept.

40CFR63 Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines)

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This Subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations. This section reflects EPA's final amendments to 40 CFR part 63, Subpart ZZZZ that were issued on January 15, 2013 and published in the Federal Register on January 30, 2013.

WVDEP DAQ has delegation of the area source air toxics provisions of this Subpart requiring Generally Achievable Control Technology (GACT). The provisions of this Subpart have been included in this general permit under Section 13.0.

Emission Unit ID#	Engine Description (Make, Model)	Engine Size (HP)	Date of Manufacture	New or Existing under 40CFR63 Subpart ZZZZ?	Provide Justification how 40CFR63 Subpart ZZZZ is met.
EU-ENG1	Caterpillar G3306 NA	145	203	New	40CFR63 Subpart ZZZZ is met by meeting the requirements of 40CFR60 Subpart JJJJ.
EU-ENG2	Caterpillar G3306 NA	145	203	New	40CFR63 Subpart ZZZZ is met by meeting the requirements of 40CFR60 Subpart JJJJ.

Are there any engines that fall in the window of being new under 40CFR60 Subpart ZZZZ but manufactured before the applicability date in 40CFR60 Subpart JJJJ? ☐ Yes ☒ No

SOURCE AGGREGATION DETERMINATION

"Building, structure, facility, or installation" is defined as all the pollutant emitting activities which belong to the same industrial grouping, are located on one or more contiguous and adjacent properties, and are under the control of the same person.

Is there equipment and/or activities used for onshore oil and natural gas production that are located on the same site, or on sites that share equipment and are within ¼ mile of each other?
☐ Yes ☒ No
Is this equipment and/or activities under "common control"?
☐ Yes ☒ No
Do these facilities share the same two (2) digit SIC code?
☐ Yes ☒ No

Final Source Aggregation Decision.
☒ Source not aggregated with any other source.
☐ Source aggregated with another source. List Company/Facility Name:

RECOMMENDATION TO DIRECTOR

The information provided in the permit application, including all supplemental information received, indicates the applicant meets all the requirements of applicable regulations and the applicant has shown they meet the eligibility requirements of General Permit G70-D. Therefore, impact on the surrounding area should be minimized and it is recommended that the facility should be granted registration under General Permit G70-D.

Permit Engineer Signature: David Keatley
Name and Title: David Keatley - NSR Permitting
Date: February 21, 2017