



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone (304) 926-0475 • FAX: (304) 926-0479

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

ENGINEERING EVALUATION / FACT SHEET

BACKGROUND INFORMATION

Application No.: R13-2087F
Plant ID No.: 039-00049
Applicant: Columbia Gas Transmission, LLC (Columbia Gas)
Facility Name: Coco Compressor Station
Location: Elkview, Kanawha County, WV
NAICS Code: 486210 - Pipeline Transfer of Natural Gas
Application Type: Modification
Received Date: July 25, 2016
Engineer Assigned: John Legg
Fee Amount: \$3,500.00 (\$1,000.00 for Rule 13 and \$1,500.00 for 40CFR63, Subpart DDDDD)
Date Received: July 27, 2016
Complete Date: August 9, 2016 (original legal advertisement affidavit received)
Due Date: November 9, 2016
Applicant Ad Date: July 28, 2016
Newspaper: *The Charleston Gazette*
UTM's: Easting: 463.5 km Northing: 4,250.5 km Zone: 17
Latitude/Longitude: 38.401773 degrees N; -81,417764 E degrees
Description: Replace line heater HTR3 with line heater HTR5:
- Old line heater HTR3 is grandfathered and does not appear in permit R13-2087E.
- New line heater HTR5 is detailed in Emission Units Table 1.0 and is subject to 40 CFR 63, Subpart DDDDD.

On July 25, 2016, Columbia Gas submitted permit modification R13-2087F. On July 27, 2016, the \$3,500.00 application fee (\$1,000.00 Rule 13 modification fee and \$2,500.00 fee for 40CFR63, Subpart DDDDD) was paid and the writer was assigned as the reviewing engineer. On July 28, 2016, the company ran their legal ad in *The Charleston Gazette*. On August 9, 2016, the DAQ received the original affidavit of publication for the legal ad and the application was deemed complete.

R13-2087F modify's the facilities equipment to reflect the replacement of an existing line heater.

Table 1: Change in Coco Compressor Station's Potential To Emit Resulting from Permit Modification R13-2087F.								
Source		NOx	CO	VOC	SO₂	PM/ PM10/ PM2.5	CH₂O	Total HAP
Changes in PTE	lb/hr	+0.01	+0.01	0.00	0.01	0.00	0.00	0.00
	ton/yr	+0.05	+0.04	0.00	0.00	0.00	0.00	+0.001

PROCESS DESCRIPTION

Columbia's Coco Station is located in Kanawha County, West Virginia, near the town of Elkview. The station receives natural gas via pipeline from an upstream compressor station, compresses it using reciprocating internal combustion engines (RICE), and transmits it via pipeline to a downstream station. The station is covered by SIC code 4922, operates under permits R13-2087E and Title V Permit No. R13-03900049-2012, and has the potential to operate 7days per week, 24 hours per day. The station currently consists of:

- Seven (7) natural gas-fueled RICE engines:
 - five (5) 890-hp
 - one (1) 1,100-hp
 - one (1) 4,000-hp
- One (1) 1,175hp emergency natural gas-fueled generator:
- One (1) 4.2 MM Btu/hr natural gas-fueled boiler,
- Two (2) natural gas-fueled heaters (9.38 MM Btu/hr and 0.09 MM Btu/hr), and
- Numerous insignificant storage tanks of various sizes.

Table 2: Existing Station Potential Annual Emissions (TPY) Before R13-2087F.							
Source	NOx	CO	VOC	SO₂	PM/ PM10/ PM2.5	*CH₂O	Total HAP
Facility-Wide	925.37	71.02	44.13	0.29	17.22	19.26	27.85

* CH₂O is the chemical formula for formaldehyde.

Fact Sheet R13-2087F
 Columbia Gas Transmission, LLC
 Coco Compressor Station
 Elkview, Kanawha County, WV

PROPOSED MODIFICATION

Columbia Gas is proposing to modify the facility by making the following changes to operating equipment:

- Remove existing emission unit HTR3 from service.
 - This is a 0.09 MM Btu/hr natural gas-fired line heater, which is used to preheat the fuel gas going to the compressor engines.
- Install a new replacement heater as emission unit HTR5.
 - Emission unit HTR5 will consist of a 0.12 MM Btu/hr natural gas-fired line heater manufactured by OGI Process Equipment, Inc., Model no. TERI 125,

Table 3: R13-2087F Emission Units Table
(Changes High-lighted in Red)

Permitted Under & Comments	Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device
R13-2087B	HTR2	H2	Heatec HCI-6010-40-G Regeneration Gas Heater	2005	9.38 MMBtu/hr	N/A
R13-2087E	008G3	G3	Waukesha VGF-P48GL Emergency Generator #3	2015	1,175 HP	None
(1)	HTR3	H3	Indirect NG-fired Line Heater BS&B	1999	0.09 MMBtu/hr	None
R13-2087F	HTR5	H5	Indirect NG-fired Line Heater . Manufacturer: OGI Process Equipment, Inc., Model No. TERI 125	2016	0.12 MMBtu/hr	None

(1) Not shown in permit R13-2087E.

Table 4: Information on New, 0.12 MM Btu/hr Indirect Natural Gas-fueled Line Heater (HTR5; H5).	
Item	Value
Identificaion	HTR5 - Emission Unit ID H5 - Emission Point ID
Manufacturer	OGI Process Equipment, Inc.
Model	TERI 125
Number of units	1

Fact Sheet R13-2087F
 Columbia Gas Transmission, LLC
 Coco Compressor Station
 Elkview, Kanawha County, WV

Table 4: Information on New, 0.12 MM Btu/hr Indirect Natural Gas-fueled Line Heater (HTR5; H5).		
Item	Value	
Use	NG Fuel Gas Line Heater	
Date constructed	2016	
Maximum design heat input per unit:	0.12 MM Btu/hr	
Projected Operating Schedule	24 hr/day 7 day/wk 52 wk/yr	
Type of firing equipment to be used:	Natural Gas Burner	
Type of draft:	Induced	
Stack or Vent Data	Inside diameter	0.55 ft
	Gas exit temperature	350 - 600 °F
	Height	8 ft
	Gas flow rate	33.4 ft ³ /min
	Estimated % of moisture	20%
	Stack serves	This equipment only
Fuel Requirements	Quantity	118 ft ³ /hr 1.034 x 10 ⁶ ft ³ /yr
	Sulfur	0.25 gr/100 ft ³
	Btu Content	1,020 Btu/ft ³
	Source	Pipeline quality NG
	Supplier	Onsite - Columbia
Gas burner mode control:	Automatic on-off	
Gas burner manufacturer:	Eclipse	
Calculated theoretical air requirements for combustion of NG fuel	165.2 actual ft ³ of air @68°F; 14.7 psia; 0.1% moisture	
Emission rates at rated capacity, no controls:	0.01 lb/hr CO; 0.00 lb/hr hydrocarbons; 0.01 lb/hr NO _x ; 0.00 lb/hr lead ; 0.00 lb/hr PM10 ; 0.01 lb/hr SO ₂ ; 0.00 lb/hr VOC	
% excess air actually required for combustion of NG fuel	40%	
Monitoring Plan	Opacity will be monitored via Method 22 to assure compliance in maintained in accordance with 45CSR2 - 10% visible emission requirements.	

Fact Sheet R13-2087F
Columbia Gas Transmission, LLC
Coco Compressor Station
Elkview, Kanawha County, WV

Table 4: Information on New, 0.12 MM Btu/hr Indirect Natural Gas-fueled Line Heater (HTR5; H5).	
Item	Value
Testing Plan	Required to conduct tune up testing of CO and NOx every 5 years in accordance with 40 CFR 63, subpart DDDDD. If visible emissions are detected with Method 22 and the cause of excess emissions is not corrected within 24 hours a Method 9 test shall be conducted to quantify the visible emissions and assess compliance with 45CSR2.
Recordkeeping	Records will be kept of any visible emission exceedances according to 45CSR2. Additionally, the tune up records will be maintained to show compliance with 40 CFR 63, Subpart DDDDD.
Reporting	Semiannual and annual compliance reports will be submitted in accordance with the facility's Title V permit.
Operating ranges and maintenance procedures required by Manufacturer to maintain warranty.	The flame arrestor air intake shall be inspected and cleaned at least once per year.

SITE INSPECTION

The writer did not visit the Coco Station for this modification application (R13-2087F). However, the facility is routinely inspected by DAQ Enforcement. On February 23, 2016, the most recent inspection, DAQ Enforcement Inspector Dan Bauerle inspected the facility, found no violations, and gave the facility the inspection code of 30 for in compliance.

Directions (per application, entry 12A, page 2 of 4):

- Located near Elkview, Kanawha County, WV. Traveling from the intersection of State Route 114 and secondary Route 49, proceed 3.4 miles and bear right on Route 49. Go 3.6 miles from the intersection of Routes 47 and 49 and turn left onto secondary County Route 7/1 (Coco Road). Travel approximately 1.5 miles. The station is located on the right side of the road.

UTM coordinates (per application, page 2 of 4, entry 12.E, F, and G):

Northing	4,250.5	KM
Easting	463.5	KM
Zone	17N	

Per Columbia Gas's legal advertisement, the latitude and longitude coordinates are:
 38.401767 degrees North (latitude)
 -81.417757 degrees East (longitude)

Fact Sheet R13-2087F
 Columbia Gas Transmission, LLC
 Coco Compressor Station
 Elkview, Kanawha County, WV

ESTIMATE OF EMISSIONS BY REVIEWING ENGINEER

Summarized below are the hourly and annual estimated emissions resulting from the installation of the new 0.12 MM Btu/hr natural gas-fired line heater (HTR5; H5) proposed under Permit Update R13-2087F for Columbia Gas's Coco Compressor Station, Elkview, Kanawha County, WV.

The writer reviewed Columbia Gas's emissions calculations given in Attachment N to the permit application and found the calculations to be logical and correct.

Table 5: Hourly and Annual Emissions Resulting from New 0.12 MM Btu/hr natural gas-fired line heater (HTR5; H5).				
Pollutant	Emission Factors	Emissions		Source of Emission Factors
		(lb/hr)	(TPY)	
Criteria Pollutants				
PM/PM ₁₀ /PM _{2.5}	7.6 lb/MMcf	^(a) 0.00	^(b) 0.00	AP-42, Chapter 1.4, Table 1.4-2, Emission Factors for Criteria Pollutants and Greenhouse Gases from Natural Gas Combustion, July 1998.
SO ₂ (Hourly)	20 grains S/100 scf	^(e) 0.01	-----	AP-42, Chapter 5.3, Section 5.3.1.
SO ₂ (Annual)	0.25 grains S / 100 scf	-----	^(f) 0.00	
NO _x	100 lb/MMcf	^(a) 0.01	^(b) 0.05	AP-42, Chapter 1.4, Table 1.4-1, Emission Factors for Nitrogen Oxides (NO _x) and Carbon Monoxide (CO) from Natural Gas Combustion, July 1998.
CO	84 lb/MMcf	^(a) 0.01	^(b) 0.04	
VOC	5.5 lb/MMcf	^(a) 0.00	^(b) 0.00	Same comment as for PM/PM ₁₀ /PM _{2.5} above.
Hazardous Air Pollutants (HAP)				
Formaldehyde	0.075 lb/MMcf	^(a) 0.00	^(b) 0.000	AP-42, Chapter 1.4, Table 1.4-3, Emission Factors for Speciated Organic Compounds from Natural Gas Combustion, July 1998.
Hexane	1.8 lb/MMcf	^(a) 0.00	^(b) 0.001	
Total HAP		0.00	0.001	Most of the HAP listed in the application are not shown above.

Fact Sheet R13-2087F
 Columbia Gas Transmission, LLC
 Coco Compressor Station
 Elkview, Kanawha County, WV

Table 5: Hourly and Annual Emissions Resulting from New 0.12 MM Btu/hr natural gas-fired line heater (HTR5; H5).

Pollutant	Emission Factors	Emissions		Source of Emission Factors
		(lb/hr)	(TPY)	

- (a) Hourly emissions (lb/hr) = Emission Factor (lb/MMcf) * Fuel Use (MMcf/yr)/Annual hours of operation (hr/yr).
- (b) Annual emissions (ton/yr) = Emission Factor (lb/MMcf) * Fuel Use (MMcf/yr * (1 ton/2000 lbs).
- (e) Hourly Emissions SO₂ Calculation (lb/hr) = (20 grain S/100 ft³) * Fuel throughput (MMft³/yr) * (1,000,000 ft³/1MMft³)/annual hours of operation (hr/yr) * (1lb/7000 grains) * (lbmol S/32.06 lb S)*64.07 lb SO₂/lbmol SO₂)
- (f) Annual Emissions SO₂ Calculation (ton/yr) = (0.25 grain S/100 ft³) * Fuel throughput (MMft³/yr) * (1,000,000 ft³/1MMft³) * (1lb/7000 grains) * (lbmol S/32.06 lb S)*(lbmol SO₂/lbmol S) *64.07 lb SO₂/lbmol SO₂)* (1 ton/2000 lbs).

Emission Inputs Table	
Fuel Use (MMBtu/hr) =	0.12
Number of Units =	1
Hours of Operation (hr/yr) =	8,760
MM Btu/MMcf =	1,020
PTE Fuel Use (MMft ³ /yr) =	1.03

Table 6: Station Potential Annual Emission (TPY) After R13-2087F.							
Source	NOx	CO	VOC	SO ₂	PM ₁₀ / PM _{2.5}	CH ₂ O	Total HAP
Facility-Wide (R13-2087E)	925.37	71.02	44.13	0.29	17.22	19.26	27.85
Changes in PTE (R13-2087F)	+0.05	+0.04	0.00	0.00	0.00	0.00	0.00
Facility-Wide (R13-2087F)	925.42	71.06	44.13	0.29	17.22	19.26	27.85

Table 7: Station Potential Hourly Emission (lb/hr) After R13-2087F.							
Source	NOx	CO	VOC	SO₂	PM/ PM₁₀/ PM_{2.5}	CH₂O	Total HAP
Facility-Wide (R13-2087E)	239.23	21.82	6.75	4.45	2.84	3.52	4.81
Changes in PTE	+0.01	+0.01	0.00	+0.01	0.00	0.00	0.00
Facility-Wide (R13-2087F)	239.24	21.83	6.75	4.46	2.84	3.52	4.81

REGULATORY APPLICABILITY

Columbia Gas’s Coco Compressor Station is a major source for NOx estimated at 925.4 TPY and Hazardous Air Pollutants (HAPs): greater than 10 TPY for an individual HAP (formaldehyde estimated at 19.26 TPY) and greater than 25 TPY of aggregated HAPs (estimated at 27.9 TPY) under Title V and Prevention of Significant Deterioration (PSD) rules.

The new 0.12 MM Btu/hr natural gas-fueled Line Heater (HTR5; H5) was added to permit R13-2087F in new Section 8.0 (40CFR63 Subpart DDDDD).

Only the rules related to the changes made under this modification are discussed below. Please see the previous engineering evaluations for further discussion of the rules applicable to this facility.

45 CSR 13 “Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Administrative Updates, Temporary Permits, General Permits, Permission to Commence Construction, and Procedures for Evaluation”

Columbia’s Coco Compressor Station is a stationary source under Rule 13, Section 2.24.a. Before this modification, the facility operated under construction permit R13-2087E.

Because the potential increase in emissions from the proposed modification do not exceed PSD significance levels, the modification is classified as a minor modification with respect to PSD and is subject to the permitting requirements of 45 CSR 13.

Fact Sheet R13-2087F
Columbia Gas Transmission, LLC
Coco Compressor Station
Elkview, Kanawha County, WV

Potential Emissions from Proposed New Equipment (tpy).							
Source	Operating Mode	Hr/Yr	NOx	CO	PM/ PM10/ PM2.5	VOC	SO2
New NG-fired 0.12 MM Btu/hr Line Heater (HTR 5; H5)	Normal	8,760	+0.05	+0.04	0.00	0.00	0.00
	PSD Significance Level		40	100	15	40	40

Columbia Gas submitted a complete application, published a Class I legal advertisement to notify the public, and paid the appropriate permitting fees: \$1,000.00 for Rule 13 review and \$2,500.00 for 40 CFR 63, Subpart DDDDD review.

45CSR30 “Requirements for Operating Permits”

The facility is a Title V source, operating under Title V Permit No. R30-03900049-2012. Columbia’s application package contained Attachment S, “Title V Permit Revision Information” which will enable the DAQ to modify the station’s Title V permit to reflect the changes proposed in R13-2087F.

45 CSR 34 “Emission Standards for Hazardous Air Pollutants for Source Categories Pursuant to 40 CFR, Part 63”

This rule establishes and adopts a program of national emission standards for hazardous air pollutants (NESHAPS) and other regulatory requirements promulgated by the United States Environmental Protection Agency pursuant to 40 CFR Parts 61, 63 and section 112 of the federal Clean Air Act, as amended (CAA). This rule codifies general procedures and criteria to implement emission standards for stationary sources that emit (or have the potential to emit) one or more of the eight substances listed as hazardous air pollutants in 40 CFR §61.01(a), or one or more of the substances listed as hazardous air pollutants in section 112(b) of the CAA. The Secretary hereby adopts these standards by reference. The Secretary also adopts associated reference methods, performance specifications and other test methods which are appended to these standards.

40CFR63,
Subpart DDDDD

“National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters”

Subpart ZZZZ establishes national emission limitations and operating limitations for HAPs emitted from stationary RICE located at major and area sources of HAP emissions. The subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

Columbia’s Coco Station is classified as a major source of HAP emissions (individual HAP with potential emissions greater than 10 ton/yr; aggregated HAP with potential emissions greater than 25 ton/yr) and will remain so after this modification.

Emission Unit HTR5 is a new process heater rated at 0.12 MMBtu/hr. The unit is a natural gas-fired unit subject to Subpart DDDDD, since it is located at a major source of HAPs.

In accordance with 40 CFR 63.7500(a)(1) and thus Table 3, the new process heater is required to conduct tune up evaluations of the burner once every 5 years to assure complete combustion is being maintained.

Additionally, according to 40 CFR 63.7510(g), new affected sources must demonstrate initial compliance with the applicable work practice standards in Table 3 to 40 CFR 63, Subpart DDDDD with the 5-year schedule as specified in 40 CFR§63.7495(a). Thereafter, the permittee is required to complete the applicable 5-year tune-up as specified in 40 CFR§63.7515(d).

TOXICITY OF NON-CRITERIA REGULATED POLLUTANTS

Various non-criteria regulated pollutants are emitted from the combustion of natural gas. Columbia Gas’s Coco Compressor station is an existing major source of HAPs. The increases in HAP emissions proposed under this modification, however, are estimated to be zero: 0.00 TPY formaldehyde; +0.001 Hexane; and +0.001 TPY aggregated HAPs.

Fact Sheet R13-2087F
Columbia Gas Transmission, LLC
Coco Compressor Station
Elkview, Kanawha County, WV

AIR QUALITY IMPACT ANALYSIS

Emissions resulting from this modification are estimated to decrease or increase only slightly. For that reason no air modeling study was conducted for the source.

Source	Annual Emissions Changes (TPY)						
	NOx	CO	VOC	SO ₂	PM/PM ₁₀ /PM _{2.5}	CH ₂ O	Total HAP
Annual Emissions Changes Resulting from Implementing Permit Modification R13-2087F	+0.05	+0.04	0.00	0.00	0.00	0.00	+0.001

MONITORING, TESTING, RECORDKEEPING AND REPORTING REQUIREMENTS

8.2. Monitoring Requirements

8.2.1. *Reserved.*

8.3. Testing Requirements

8.3.1. If you are required to meet an applicable tune-up work practice standard, you must conduct a 5-year performance tune-up according to §63.7540(a)(12), respectively. Each 5-year tune-up specified in §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed affected source (as defined in §63.7490), the 5-year tune-up must be no later than 61 months after April 1, 2013 or the initial startup of the new or reconstructed affected source, whichever is later.

[45CSR34; 40 CFR§63.7515(d)]

8.4. Recordkeeping Requirements

8.4.1. The permittee must keep a copy of each notification and report submitted to comply with 40 C.F.R. 63, Supart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in 40CFR63.10(b)(2)(xiv).

[45CSR34; 40 CFR§63.7555(a)(1)]

8.4.2. The permittee shall main records as follows:

- a. Records must be in a form suitable and readily available for expeditious review, according to 40CFR63.10(b)(1).
- b. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action,

Fact Sheet R13-2087F
Columbia Gas Transmission, LLC
Coco Compressor Station
Elkview, Kanawha County, WV

report, or record.

- c. The permittee must keep each record on site, or they must be accessible from on site (for example, through a computer network), for a least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40CFR63.10(b)(1). The permittee may keep the records off site for the remaining 3 years.

[45CSR34; 40 CFR§63.7560]

8.5. Reporting Requirements

- 8.5.1. As specified in §63.9(b)(4) and (5), if you startup your new or reconstructed affected source on or after January 31, 2013, you must submit an Initial Notification no later than 15 days after the actual date of startup of the affected source.

[40 CFR§63.7545(c)]

- 8.5.2. If you are not required to conduct an initial compliance demonstration as specified in §63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8) of this section and must be submitted within 60 days of the compliance date specified at §63.7495(b).

- (e) (1) A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under §241.3 of this chapter, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of §241.3 of this chapter, and justification for the selection of fuel(s) burned during the compliance demonstration.
- (e) (8) In addition to the information required in §63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, and signed by a responsible official:
 - (i) “This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR part 63 subpart DDDDD at this site according to the procedures in §63.7540(a)(10)(i) through (vi).”
 - (ii) “This facility has had an energy assessment performed according to §63.7530(e).”
 - (iii) Except for units that burn only natural gas, refinery gas, or other gas 1 fuel, or units that qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act, include the following: “No secondary materials that are solid waste were combusted in any affected unit.”

[40 CFR§§63.7545(e)(1) & (8)]

- 8.5.3. (b) For units that are subject only to a requirement to conduct subsequent 5-year tune-up according to §63.7540(a)(12) and not subject to emission limits or Table 4 operating limits, you may submit only a 5-year compliance report as specified in paragraphs (b)(1) through (4) of this section, instead of a semi-annual compliance report.

Fact Sheet R13-2087F
Columbia Gas Transmission, LLC
Coco Compressor Station
Elkview, Kanawha County, WV

- (5) For each affected source that is subject to permitting regulations pursuant to part 70 or part 71 of this chapter, and if the permitting authority has established dates for submitting semiannual reports pursuant to 70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established in the permit instead of according to the dates in paragraphs (b)(1) through (4) of this section.

[40 CFR§63.7550(b)(5)]

8.5.4. (c) A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule.

(1) If the facility is subject to the requirements of a tune up you must submit a compliance report with the information in paragraphs(c)(5)(i) through (iii), (xiv) and (xvii) of this section as follows:

(5) (i) Company and Facility name and address.

(ii) Process unit information, emissions limitations, and operating parameter limitations.

(iii) Date of report and beginning and ending dates of the reporting period.

(xiv) Include the date of the most recent tune-up. Include the date of the most recent burner inspection if it was not done on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.

(xviii) For each instance of startup or shutdown include the information required to be monitored, collected or recorded according to the requirements of §63.7555(d).

[40 CFR§63.7550 (c)]

CHANGES TO PERMIT

The changes made to permit R13-2087E to arrive at permit R13-2087F are detailed in **RED** in the compare file which can be found in Attachment A to this evaluation.

RECOMMENDATION TO DIRECTOR

Columbia Gas's request for a modification permit to add one (1) 0.012 MM Btu/hr natural gas-fueled line heater at their Coco Compressor Station located near Elkview, Kanawha County, WV meets the requirements of all applicable rules and therefore should be granted said modification permit (R13-2087F).

John Legg, Permit Writer

October 12, 2016

Fact Sheet R13-2087F
Columbia Gas Transmission, LLC
Coco Compressor Station
Elkview, Kanawha County, WV