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December 2, 2019

DEC 02 2019

HAND DELIVERED

PUBLIC SERVICE
COMMISSION

Gwen R. Pinson
Executive Director
Public Service Commission
211 Sower Blvd., P.O. Box 614
Frankfort, KY 40601

RE: PSC Case No. 2019-00383

Dear Ms. Pinson,

Please find enclosed the original and ten copies of Columbia Gas of Kentucky, Inc.'s Responses to Commission Staff's First Request for Information in the above referenced matter. Please do not hesitate to contact me with any questions.

Sincerely,

Brooke E. Wancheck (gmc)

Brooke E. Wancheck
Assistant General Counsel

Enclosure(s)

COLUMBIA GAS OF KENTUCKY, INC.
RESPONSE TO STAFF'S FIRST REQUEST FOR INFORMATION
DATED NOVEMBER 20, 2019

1. Refer to the application, SMRP Form 2.0, page 1 of 3. For the forecasted plant additions, retirements, and removals for 2020, provide the following separately by project:

- a. Location;
- b. Number, length, and size of mains and service lines;
- c. Associated costs;
- d. Projected construction start date;
- e. Projected month of completion;
- f. Type of material removed; and
- g. Explain in full detail the specific safety issue that each proposed project is addressing.

Response:

Please see Attachment 1. Please note that the low-pressure safety modification project is budgeted for and managed as a portfolio of work and the budget amount for 2020 is \$6,406,729. That amount is represented in Row 41 of the attachment.

Proposed 2020 SMRP Projects

Project Name	Project ID	City	Location	Facility to Install	Size(s) to Install (in)	Install Footage	Stations Retired	Material Removed	Customer Service Replacements	Start Month	Completion Month	Safety Issue Addressed	Main Cost	Service Replacement Cost	Proposed Blanket Estimate	Total Project Cost
Tyler Street Cast Iron Elimination 18026770500 2567005	1853306	Maysville	5th, 6th, Brooks, Buckner, Center, Central, Clark, Hill, Lexington, Maddox, Pheham, Union and Wood	Plastic Pipe	4.2	11,800	1	4370' Cast Iron 942' Bare Steel 3907' Coated Steel 1731' Plastic	300	January	November	Eliminate Cast Iron Pipe and one low pressure station for the reasons stated in Columbia Case Nos. 2009-00141 & 2019-00257, and PHMSA Advisory Bulletin ADB 2012-005.	\$1,781,800	\$1,251,000	\$0	\$3,032,800
West Maysville LP AMRP 19026855100 2425005	1966572	Maysville	W 2ND ST, GERMANTOWN RD, DRYDEN LN, and ROGERS RD	Plastic Pipe	4.2	8,000	3	2268' Cast Iron 3720' Bare Steel 677' Coated Steel 2004' Plastic	40	February	September	Eliminate Cast Iron Pipe and 2 LP Stations for the reasons stated in Columbia Case Nos. 2009-00141 & 2019-00257, and PHMSA Advisory Bulletin ADB 2012-005.	\$1,086,500	\$169,800	\$0	\$1,256,300
Thornhill AMRP Phase II 2560048 6084228D 32010002	1967044	Frankfort	Clements Ave., Elm St., Fields Ave., Fifth Ave., Greenup Ave., Henry St., and Oak	Plastic Pipe	2	3,579	0	2655' Bare Steel 478' Plastic	72	March	July	High risk Optimum project necessary to eliminate leaking pipe reported to be in poor condition and having deep pits. This project addresses leaking pipe and reduces the risk of migrating gas.	\$447,375	\$300,240	\$0	\$747,615
Weber Ct AMRP-1623330 19026900000	1967055	Frankfort	WEBER CT and EWING CT	Plastic Pipe	2	600	0	587' Bare Steel	12	July	July	High risk Optimum project reported to be in poor condition and having deep pits in the surface of the pipe. This project addresses a higher rate of leakage and minimizes the risk of migrating gas.	\$75,000	\$50,040	\$0	\$125,040
T-5 AMRP 2594008 18026791100	1855116	Ashland	Cross country in proximity to KY 168	Plastic High Density Pipe	8	2,637	0	2637' Bare Steel	1	June	August	Replace 1929 bare steel and spiral welded, coupled high pressure pipe that is exposed in certain locations and subject to unreparable leaks due to inability to weld on pipe. Difficult terrain.	\$369,180	\$4,170	\$0	\$373,350
South Williamson AMRP 19026850500 2563880	1906192	South Williamson	Virginia Ave, 4th Street, 3rd, Central, Kentucky, Fifth, Second Street	Plastic Pipe	2	6,250	1	4091' Bare Steel 1271' Coated Steel 885' Plastic	100	March	August	Replace bare steel pipe with medium pressure and eliminate one low pressure station and encroachments. This project addresses leakage and minimizes the risk of migrating gas in proximity to structures.	\$750,000	\$417,000	\$0	\$1,167,000
MOUND from DIAMOND to GARTRELL 2560046 7366256K 19026881600 32051001	1904808	Ashland	Gartrell, Mound, Diamond	Plastic Pipe	4	2,506	0	2314' Bare steel 94' Coated steel	31	May	May	High risk Optimum project that was identified as a suspected area of active corrosion. This project addresses leakage and the associated risk of migrating gas.	\$330,000	\$129,270	\$0	\$469,270
BLACKBURN from FREDERICK to FERGUSON 2594007 Map No. 7356256D	1968544	Ashland	Blackburn Ave.	Plastic Pipe	4.2	2,300	0	2182' Bare Steel 189' Coated steel	10	June	June	This pipe is reported to be in poor condition and having deep pits in the surface of the pipe. This project addresses leakage and the risk of migrating gas.	\$368,000	\$41,700	\$0	\$409,700
Court Street AMRP and Encroachment Elimination 2062284 JOB 18-0269702-00	18-55685	Irvine	Main, Court, Broadway, James, Francis, Ann, Rice, Wallace	Plastic Pipe	4.2	7,900	1	3425' Bare Steel 145' Galv. Steel 2386' Coated Steel 2558' Plastic	128	April	October	Replace bare steel pipe and one low pressure district station and pre-1950 coated steel pipe. This project addresses leakage and the associated risk of migrating gas.	\$988,000	\$533,780	\$0	\$1,521,780
Paris 2nd St Cast Iron AMRP 32010173 JOB 19-026978-00 2560214	19-66890	Paris	Cameron, Elizabeth, Emily, George St, Catherine, Josephine, 2nd, chapel, Mt Airy, Brooks, Rucker, Houston, Lilleston, Lucas, Fithian	Plastic Pipe	4.2	12,500	3	2642' Cast Iron 7803' Bare Steel 720' Coated Steel 2390' Plastic	173	January	October	Retire cast iron main and 3 low pressure district stations for the reasons stated in Columbia Case Nos. 2009-00141 & 2019-00257, and PHMSA Advisory Bulletin ADB 2012-005.	\$1,912,500	\$721,410	\$0	\$2,633,910
Newtownanner Horse Farm Replacement 2560016 JOB 19-0269685-00	19-66929	Frankfort	Right-of-Way	Coated Steel	12	6,500	0	6403' Bare Steel	5	March	September	Replacement of mechanically coupled high pressure, bare steel pipe. This project addresses leaking pipe installed in the 1920s and the associated risk of migrating gas. Pipe is in poor condition and has deep pits.	\$1,430,000	\$20,850	\$0	\$1,450,850
Bank St AMRP and Station Elimination 2590047 (32001007) JOB 19-0269680-00	19-66919	Mt. Sterling	Brown, Bank, & Apperson	Plastic Pipe	2	3,350	1	3049' Bare Steel 311' Coated Steel 225' Plastic	40	April	July	Replace 1948 bare steel low pressure pipe having deep pits and reported to be in poor condition and previous reports of general corrosion. This project will also eliminate one low pressure district station. This project addresses leakage and the associated risk of migrating gas. It also avoids expensive LP station upgrades.	\$301,500	\$166,800	\$0	\$468,300
Winn Street AMRP 2560269 JOB 19-0269556-00	19-60586	Mt. Sterling	Winn, Sterling, Chenualt, N Sycamore	Plastic Pipe	2	4,300	0	2386' Bare Steel 1529' Coated Steel 360' Plastic	67	May	August	Bare steel pipe installed in the early to mid 1950s. General corrosion and deep pits previously reported. This project addresses natural gas leakage and the associated risk of migrating gas.	\$623,500	\$279,300	\$0	\$902,800
South Mill Street Cast Iron AMRP JOB 19-027097-00 2062184	18-55697	Lexington		Plastic Pipe	2	2,150	0	4070 Bare Steel 353' Cast Iron 670' Coated Steel 121' Plastic	53	March	July	Eliminate bare steel and cast iron pipe for the reasons stated in Columbia Case No. 2009-00141 and PHMSA Advisory Bulletin ADB 2012-005.	\$521,207	\$221,010	\$0	\$742,217
Main St Cast Iron AMRP JOB 19-0269690-00 2560287	19-66953	Paris	Main, High, 15th, 16th, 17th, Baktwin, 19th	Plastic Pipe	2	9,000	1	6108' Bare Steel 708' Cast Iron 958' Coated Steel 2213' Plastic	79	January	September	Eliminate bare steel and cast iron pipe and one low-pressure district station in a subsequent phase for the reasons stated in Columbia Case Nos. 2009-00141 & 2019-00257, and PHMSA Advisory Bulletin ADB 2012-005.	\$1,125,000	\$329,430	\$0	\$1,454,430

Proposed 2020 SMRP Projects

Project Name	Project ID	City	Location	Facility to Install	Size(s) to Install (in)	Install Footage	Stations Retired	Material Removed	Customer Service Replacements	Start Month	Completion Month	Safety Issue Addressed	Main Cost	Service Replacement Cost	Proposed Blanket Estimate	Total Project Cost
Lane's End Horse Farm JOB 19-0206761-00 (2000) 2590605	19-03989	Versailles	Cross-country between US 62 and Big Sink	Coated Steel	12	7,099	0	7700' Bare Steel 533' Coated Steel	4	May	Nov	Eliminate pitted bare steel high pressure pipe with short barrel couplings to minimize the risk of leakage and migrating gas.	\$1,501,780	\$16,980	\$0	\$1,578,460
Bennett Avenue AMRP JOB 17-0206890-00 2001904	13-15802	Lexington	Bennett Ave, Emory Ave, Hamond Ave, Versailles Rd.	Plastic Pipe	2.6	4,200	1	2179' Bare Steel 717' Plastic 1111' Coated Steel	60	April	September	Eliminate bare steel pipe and one low pressure pit regulator station for the reasons stated in Columbia Case Nos. 2009-00141 & 2019-00257. This project addresses leakage, the associated risk of gas migration, and avoids expensive station upgrades.	\$525,000	\$250,200	\$0	\$775,200
Price Road AMRP Suburban Trailer Park 2590545, JOB 18-0206785-00	18-56105	Lexington	Apricot, Avocado, Boysen Berry, Canteloupe, Cranberry, Dalray, Embassy, Fairdale, First, Rustic.	Plastic Pipe	2.4	12,011	0	12011' Bare Steel 2055' Plastic	68	March	October	Eliminate bare steel pipe experiencing galvanic corrosion and trailer encroachments. This project addresses leakage and the associated risk of migrating gas in proximity to structures.	\$1,501,375	\$283,560	\$0	\$1,784,935
Upper Street Cast Iron Phase I 2597647 JOB 18-0206742-00	18-58813	Lexington	Upper St, Mechanic, 2nd St, Church, Limestone	Plastic Pipe	4	3,500	0	2154' Bare Steel 971' Cast Iron 341' Coated Steel 94' Plastic	45	April	July	Eliminate bare steel and cast iron pipe for the reasons stated in Columbia Case No. 2009-00141 and PHMSA Advisory Bulletin ADB 2012-005. This project eliminates the possibility for cast iron breaks and the resulting migration of gas.	\$525,000	\$187,850	\$0	\$712,850
Bucoto Court Station Elimination JOB 19-03559	19-03559	Lexington	Broadway, Ulian Ct, Neims AV, Broadway Park, Bucoto Ct.	Plastic Pipe	2	4,000	1	2917' Bare Steel 427' Coated steel 1626' Plastic	52	February	November	Eliminate corroding bare steel and one low pressure district station for the reasons stated in Columbia Case Nos. 2009-00141 & 2019-00257. This project addresses the risk of leakage and the associated risk of gas migration.	\$400,000	\$216,840	\$0	\$616,840
Bell Court Station Elimination JOB 19-0206000-00 2590489	19-07033	Lexington	Walton Ave, Boonesboro, Bell Ct, Bell Place, Russell Ave, Delamar Ave, Hambrick, Franklin, Bullock Place, Indiana Ave.	Plastic Pipe	2,6,8	10,150	1	9891' Bare Steel 1387' Cast Iron 1837' Coated Steel	212	January	October	Eliminate cast iron pipe and one low pressure pit regulator station for the reasons stated in Columbia Case Nos. 2009-00141 & 2019-00257, and PHMSA Advisory Bulletin ADB 2012-005. The existing pipe has a large number of Grade 1 leaks. This project eliminates the possibility for cast iron breaks and the resulting migration of gas.	\$1,268,750	\$884,040	\$0	\$2,152,790
Transylvania Park AMRP JOB 19-0206414-00 2593988 & 2590055	19-07480	Lexington	Transylvania Park	Plastic Pipe	2	2,300	0	2716' Bare Steel	31	March	July	This project will eliminate bare steel corroding pipe and the resulting corrosion leaks. This project addresses leakage and the associated risk of gas migration.	\$287,500	\$129,270	\$0	\$416,770
PANOLA St. from 25TH to 28TH-1630389 7300252/ 190209130	1908534	Catlettsburg	28th street	Plastic Pipe	4	600	0	561' Bare Steel 34' Coated Steel	5	June	June	Pipe reported to be in poor condition and having deep pits on the surface of the pipe. This project addresses leakage and the associated risk of gas migration.	\$93,000	\$20,850	\$0	\$113,850
BRYAN Ave from WITTLAND to GLENN-1620843 Map No. 0720212F	1908539	Lexington	Bryan Avenue	Plastic Pipe	4	328	0	328' Bare Steel	9	August	August	Bare steel corroding pipe with deep pits and the associated risk of gas migration.	\$32,800	\$37,530	\$0	\$70,330
HARRY St AMRP from SIXTH to FIFTH-1721899	1908541	Lexington	Harry Street	Plastic Pipe	4	782	0	782' Bare Steel	9	June	June	Eliminate bare steel corroding pipe with deep pits and the associated risk of gas migration.	\$78,200	\$37,530	\$0	\$115,730
US HWY 23 from COUNTY to LACKEY-1632340 73562200 19020913200	1908538	Lousa	US Highway 23	Plastic Pipe	4	350	0	333' Bare Steel	12	July	July	High risk single Optman project reported to be in poor condition and having deep pits in the surface of the pipe. This project will address leakage and the associated risk of gas migration.	\$352,000	\$50,040	\$0	\$402,040
Old Paris Pike AMRP and Station Elimination	1908542	Lexington	Old Paris Road, Northwood Drive, Manhattan Drive, and Strathmore Road	Plastic Pipe	8,6,4,2	13,319	1	10202' Bare Steel 1312' Coated Steel	240	April	November	Eliminate bare steel corrosion problem at a district station, one high pressure district station and one low pressure district station in a subsequent phase. It also eliminates bare steel pipe and the associated leakage and the associated risks of gas migration.	\$2,330,825	\$1,038,330	\$0	\$3,369,155
Marcellus Drive AMRP Phase II 18920797400 2596826	1855823	Lexington	Marcellus, Emerson, Highland Park	Plastic Pipe	4,2	4,000	0	2508' Bare Steel 336' Plastic	100	Jan	May	Elimination of corroding bare steel pipe having some general corrosion, deep pits, and in poor condition. This project eliminates bare steel and the associated risks of gas migration.	\$399,193	\$454,530	\$0	\$853,723
2020 DKZ AMRP 2532326	1748226	Winchester	Right-of-Way	Coated Steel	12	3,700	0	2575' Bare Steel 1129' Coated Steel	1	March	June	Eliminate 1928 high pressure bare steel coupled pipe	\$832,500	\$4,170	\$0	\$836,670
Dysard Hill AMRP 2532328	1850565	Ashland	Dysard Hills	Plastic Pipe	2	1,000	0	653' Bare Steel 206' Coated Steel 144' Plastic	6	June	July	High risk single Optman project reported to be in poor condition and having deep pits in the surface of the pipe. This project addresses leakage and the resulting migration of gas.	\$160,000	\$25,020	\$0	\$185,020

Proposed 2020 SMRP Projects

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Webster Avenue Non-standard service elimination	1749782	Cynthiana	Webster & Clifton	Plastic Pipe	2	1,000	0	Bare steel services	5	August	August	Eliminate non standard services installed by land owner by performing main extension.	\$105,000	\$20,850	\$0	\$185,850
Bellonte Drive AMRP 2532305	1748626	Ashland	Patton Drive, Bellonte-Princess.	Plastic Pipe	4, 6	3,050	0	3005' Bare Steel 625' Coated Steel	25	March	June	Optimain area of risk concentration. High risk. Optimain project reported to be in poor condition and having deep pits. This project addresses leakage and migration of gas.	\$503,250	\$104,250	\$0	\$607,500
8 th St AMRP-2566846	1855957	Ravenna	Elm St, 8th St, Alley B, 9th St, Poplar St	Plastic Pipe	2	1,550	0	1983' Bare Steel 84' Coated Steel 30' Plastic	44	April	June	High risk single Optimain project reported to be in poor condition and having deep pits in the surface of the pipe. This project addresses leakage and the resulting migration of gas.	\$193,750	\$183,480	\$0	\$377,230
565 - Scattered Service Line Replacements		Multi	Multiple	Plastic or Coated Steel Service Line	NA	NA	0	Bare Steel services and noncompliant and unknown materials	475	Jan	Dec	Replace leaking bare steel services to eliminate migration of gas in proximity to structures.		\$1,980,750	\$0	\$1,980,750
579 - Blanket Meter Install Replacement		Multi	Multiple	Meter Attachments	NA	NA	0	Retired Meter Setting Components	NA	Jan	Dec	Necessary for the customer to be connected to the new main			\$50,250	\$50,250
581 - House Regulators Replacement		Multi	Multiple	Service Regulators	Na	NA	0	Retired House Regulators	NA	Jan	Dec	Necessary for the customer to be connected to the new main			\$65,819	\$65,819
INSTALL FN 761 EXTRA LP OPP JO# 1802880100	1856393	Maysville	KY 435	Add Customer Setting Regulators	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	\$6,466,729
INSTALL FN 49 EXTRA LP OPP JO# 18028801100	1858138	Lexington	Preston Ave	ASV - FT - Custom Design, Non-primary relief valve, ER-350 Electronic monitoring eq.	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 50 EXTRA LP OPP JO# 18028801200	1858139	Lexington	Venice PK	Non-primary relief valve, ER-350 Electronic monitoring device	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 59 EXTRA LP OPP JO# 18028801800	1858140	Lexington	Penmoken PK	Non-primary relief valve ER-350 Electronic monitoring eq.	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 64 EXTRA LP OPP JO# 18028802000	1858141	Lexington	Marquis Avenue	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 72 EXTRA LP OPP JO# 18028803000	1858142	Lexington	Broadway	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 78 EXTRA LP OPP JO# 18028803600	1858143	Lexington	Clays Mill Road	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 82 EXTRA LP OPP JO# 18028804200	1858144	Lexington	Queensway Drive	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 83 EXTRA LP OPP JO# 18028804300	1858145	Lexington	Glass Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

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INSTALL FN 84 EXTRA LP OPP JC# 18026804500	1858146	Lexington	Robertson Avenue	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 86 EXTRA LP OPP JC# 18026804800	1858147	Lexington	Tates Creek Road	ASV - GN - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 88 EXTRA LP OPP JC# 18026805200	1858148	Lexington	Oldham Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 89 EXTRA LP OPP JC# 18026805400	1858149	Lexington	Barf Street	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 114 EXTRA LP OPP JC# 18026808800	1858150	Lexington	Bryan Avenue	ASV - GN-030204-150 Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 115 EXTRA LP OPP JC# 18026807000	1858151	Lexington	Smith Street	ASV - MR-04-150 Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 116 EXTRA LP OPP JC# 18026807200	1858152	Lexington	Aurora Avenue	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 117 EXTRA LP OPP JC# 18026807400	1858153	Lexington	Jersey	ASV - Custom Designed OPP Top Works, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 119 EXTRA LP OPP JC# 18026807800	1858154	Lexington	Meadow	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 212 EXTRA LP OPP JC# 18026808000	1858155	Lexington	Third Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 223 EXTRA LP OPP JC# 18026808400	1858156	Lexington	Cooper Drive	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 224 EXTRA LP OPP JC# 18026808600	1858157	Lexington	Richmond Road	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 259 EXTRA LP OPP JC# 18026808800	1858158	Lexington	Richmond Road	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 260 EXTRA LP OPP JC# 18026809000	1858159	Lexington	Richmond Road	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 264 EXTRA LP OPP JC# 18026809200	1858160	Lexington	Rose Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

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INSTALL FN 265 EXTRA LP OPP JC# 18026809400	1858161	Lexington	Press Avenue	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 266 EXTRA LP OPP JC# 18026809600	1858162	Lexington	Versailles Road	ASV - MR - Custom Design ER-350 Electronic Monitoring Device Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 267 EXTRA LP OPP JC# 18026809800	1858163	Lexington	Maxwell Street	ASV - Custom Designed OPP Top Works, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 275 EXTRA LP OPP JC# 18026810200	1858164	Lexington	Bob O Link	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 278 EXTRA LP OPP JC# 18026810400	1858165	Lexington	Bell Court	Station Planned for retirement	NA	NA	NA	Complete Station	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 308 EXTRA LP OPP JC# 18026811000	1858167	Lexington	Tates Creek Road	LP Station Planned for Retirement in early 2020	NA	NA	NA	Complete Station	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 311 EXTRA LP OPP JC# 18026811200	1858168	Lexington	Manchester	ASV - FT - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 373 EXTRA LP OPP JC# 18026811800	1858171	Lexington	Greenwood Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 382 EXTRA LP OPP JC# 18026812600	1858172	Lexington	Clay Avenue	ASV - Install in 2019, ER-350 Electronic Monitoring Device, Non-Primary relief valve to be installed in 2020.	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 842 EXTRA LP OPP JC# 18026813000	1858173	Lexington	Cooper Drive	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13351 EXTRA LP OPP JC# 18026805600	1858174	Lexington	Goodwin Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13441 EXTRA LP OPP JC# 18026806000	1858175	Lexington	Southland Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13476 EXTRA LP OPP JC# 18026812800	1858176	Lexington	Paris Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13481 EXTRA LP OPP JC# 18026803200	1858177	Lexington	Broadway Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13485 EXTRA LP OPP JC# 18026802400	1858178	Lexington	Lane Allen Road	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

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INSTALL FN 13487 EXTRA LP OPP JO# 18026805800	1858179	Lexington	Newtown Pike	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13493 EXTRA LP OPP JO# 18026804700	1858180	Lexington	Old Paris Road	ASV - GN-020202-150 Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13501 EXTRA LP OPP JO# 18026812000	1858181	Lexington	W. Main Street (Felix Street)	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13502 EXTRA LP OPP JO# 18026802900	1858182	Lexington	Nicholasville Rd.	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13503 EXTRA LP OPP JO# 18026805000	1858183	Lexington	Eddie Street	ASV - FT - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13573 EXTRA LP OPP JO# 18026802000	1858184	Lexington	3rd Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13665 EXTRA LP OPP JO# 18026808200	1858185	Lexington	Idle Hour	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14049 EXTRA LP OPP JO# 18026803400	1858186	Lexington	Versailles Road	ASV - MR-02-150 Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14063 EXTRA LP OPP JO# 18026801600	1858187	Lexington	Addison Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14094 EXTRA LP OPP JO# 18026810800	1858188	Lexington	Mason-Headley	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14098 EXTRA LP OPP JO# 18026812400	1858189	Lexington	Alumni Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14143 EXTRA LP OPP JO# 18026809600	1858190	Lexington	Loudon Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14154 EXTRA LP OPP JO# 18026804000	1858191	Lexington	Clays Mill Road	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14190 EXTRA LP OPP JO# 18026803800	1858192	Lexington	Mitchell Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14168 EXTRA LP OPP JO# 18026802800	1858193	Lexington	Cheryl Lane	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

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INSTALL FN 14184 EXTRA LP OPP JC# 18026812200	1858194	Lexington	Rebecca Drive	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14199 EXTRA LP OPP JC# 18026806400	1858196	Lexington	Lima Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14207 EXTRA LP OPP JC# 18026807600	1858197	Lexington	Loudon Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14459 EXTRA LP OPP JC# 18026802200	1858198	Lexington	Harrodsburg Road	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 16538 EXTRA LP OPP JC# 18026801400	1858199	Lexington	Stone Road	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 19921 EXTRA LP OPP JC# 18026813200	1858200	Lexington	Wakefield Tr	Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 21499 EXTRA LP OPP JC# 18026813700	1858201	Lexington	Chinoe Road	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 21500 EXTRA LP OPP JC# 18026813900	1858201	Lexington	Chinoe Road	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 22195 EXTRA LP OPP JC# 18026813400	1858202	Lexington	Young Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 22196 EXTRA LP OPP JC# 18026813600	1858202	Lexington	Young Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 22276 EXTRA LP OPP JC# 18026814100	1858203	Lexington	Shawneetown Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 22271 EXTRA LP OPP JC# 18026814300	1858203	Lexington	Shawneetown Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 129 EXTRA LP OPP JC# 18026814600	1858205	Frankfort	Lafayette Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 130 EXTRA LP OPP JC# 18026815100	1858206	Frankfort	Thomas Place	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 132 EXTRA LP OPP JC# 18026815300	1858207	Frankfort	Holmes Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

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INSTALL FN 134 EXTRA LP OPP JO# 18029815500	1858208	Frankfort	Lewis Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 135 EXTRA LP OPP JO# 18029815700	1858209	Frankfort	Stanley Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 136 EXTRA LP OPP JO# 18029815900	1858210	Frankfort	Sutterlin Lane	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 147 EXTRA LP OPP JO# 18029816700	1858212	Frankfort	Rolling Acres	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 218 EXTRA LP OPP JO# 18029819300	1858213	Frankfort	Holmes Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 219 EXTRA LP OPP JO# 18029819500	1858214	Frankfort	Compton Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 350 EXTRA LP OPP JO# 18029819700	1858215	Frankfort	Tanglewood Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 351 EXTRA LP OPP JO# 18029819900	1858216	Frankfort	Service Drive	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 352 EXTRA LP OPP JO# 18029820100	1858217	Frankfort	Myrtle Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14426 EXTRA LP OPP JO# 18029819100	1858218	Frankfort	Mockingbird Lane	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14429 EXTRA LP OPP JO# 18029816100	1858219	Frankfort	Walnut Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 190 EXTRA LP OPP JO# 18029816900	1858221	Georgetown	Court Al	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 193 EXTRA LP OPP JO# 18029817100	1858222	Georgetown	Hamilton Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 194 EXTRA LP OPP JO# 18029817300	1858223	Georgetown	Court Alley	Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 199 EXTRA LP OPP JO# 18029817500	1858224	Georgetown	College Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

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INSTALL FN 202 EXTRA LP OPP JO# 18026817700	1858225	Midway	Wassau Alley	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 354 EXTRA LP OPP JO# 18026820300	1858226	Midway	Winter Street	ASV - GN - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14557 EXTRA LP OPP JO# 18026817900	1858227	Midway	Walnut Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 207 EXTRA LP OPP JO# 18026818300	1858228	Versailles	Berry Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 208 EXTRA LP OPP JO# 18026818500	1858229	Versailles	Locust Street	Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 209 EXTRA LP OPP JO# 18026818700	1858230	Versailles	Highview Drive	ASV - PT - Custom Design ER-350 Electronic Monitoring Device Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 210 EXTRA LP OPP JO# 18026818900	1858231	Versailles	Woodridge Lane	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14201 EXTRA LP OPP JO# 18026818100	1858232	Versailles	Frankfort Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 232 EXTRA LP OPP JO# 18026824600	1858233	Paris	Higgins Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 233 EXTRA LP OPP JO# 18026824800	1858234	Paris	Thomas Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 234 EXTRA LP OPP JO# 18026825000	1858235	Paris	Houston Avenue	ASV - MR-02-150 Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 235 EXTRA LP OPP JO# 18026825200	1858236	Paris	Rucker Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 236 EXTRA LP OPP JO# 18026825400	1858237	Paris	Elizabeth Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 240 EXTRA LP OPP JO# 18026825600	1858238	Paris	High Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 314 EXTRA LP OPP JO# 18026826000	1858239	Paris	Main Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

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INSTALL FN 316 EXTRA LP OPP JO# 18026826200	1858240	Paris	Pleasant Street	Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 317 EXTRA LP OPP JO# 18026826400	1858241	Paris	Short Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 37 EXTRA LP OPP JO# 18026820700	1858242	Winchester	Forrest Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 38 EXTRA LP OPP JO# 18026820900	1858243	Winchester	Wall Alley	ASV - PT - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 40 EXTRA LP OPP JO# 18026821100	1858244	Winchester	Wall Alley	ASV - PT - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 41 EXTRA LP OPP JO# 18026821300	1858245	Winchester	Wall Alley	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 42 EXTRA LP OPP JO# 18026821500	1858246	Winchester	Alley Off Main	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 43 EXTRA LP OPP JO# 18026821700	1858247	Winchester	Mutual Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 44 EXTRA LP OPP JO# 18026821900	1858248	Winchester	Alley Off Park Av	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 45 EXTRA LP OPP JO# 18026822100	1858249	Winchester	Alley Off Lincoln	ASV - Custom Designed OPP Top Works Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 220 EXTRA LP OPP JO# 18026824000	1858250	Winchester	Graves Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 357 EXTRA LP OPP JO# 18026826600	1858251	Winchester	Burns Avenue	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 733 EXTRA LP OPP JO# 18026828100	1858252	Winchester	Edgemont Drive	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 854 EXTRA LP OPP JO# 18026828300	1858253	Winchester	Lexington Avenue	ASV - GN - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 21193 EXTRA LP OPP JO# 18026828600	1858254	Winchester	Boone Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

Proposed 2020 SMRP Projects

Project Name	Project ID	City	Location	Facility to Install	Size(s) to Install (in)	Install Footage	Stations Retired	Material Removed	Customer Service Replacements	Start Month	Completion Month	Safety Issue Addressed	Main Cost	Service Replacement Cost	Proposed Blanket Estimate	Total Project Cost
INSTALL FN 21194 EXTRA LP OPP JO# 18026828800	1858255	Winchester	Boone Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 47 EXTRA LP OPP JO# 18026822200	1858256	Irvine	Alley	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 221 EXTRA LP OPP JO# 18026824200	1858257	Irvine	Carhart Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 659 EXTRA LP OPP JO# 18026827000	1858258	Irvine	Alley	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 661 EXTRA LP OPP JO# 18026827200	1858259	Irvine	Broadway Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13878 EXTRA LP OPP JO# 18026825800	1858260	Irvine	Main Street	ASV - FT - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 48 EXTRA LP OPP JO# 18026822400	1858261	Irvine	3rd St Alley	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 658 EXTRA LP OPP JO# 18026826800	1858262	Irvine	Elm Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 101 EXTRA LP OPP JO# 18026822600	1858263	Cynthiana	Moy Foo Alley	ASV - MI - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 162 EXTRA LP OPP JO# 18026822800	1858264	Cynthiana	5th Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 163 EXTRA LP OPP JO# 18026823000	1858265	Cynthiana	Maple Street	ASV - Custom Designed OPP Top Works, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 164 EXTRA LP OPP JO# 18026823200	1858266	Cynthiana	Wilson Avenue	ASV - MR - Custom Design ER-350 Electronic Monitoring Device Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 165 EXTRA LP OPP JO# 18026823400	1858267	Cynthiana	Carr Alley	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 680 EXTRA LP OPP JO# 18026827400	1858268	Mount Sterling	Indian Mound Drive	ASV - GN - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 182 EXTRA LP OPP JO# 18026823600	1858269	Mount Sterling	Queen Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

Proposed 2020 SMRP Projects

Project Name	Project ID	City	Location	Facility to Install	Size(s) to Install (in)	Install Footage	Stations Retired	Material Removed	Customer Service Replacements	Start Month	Completion Month	Safety Issue Addressed	Main Cost	Service Replacement Cost	Proposed Blanket Estimate	Total Project Cost
INSTALL FN 183 EXTRA LP OPP JOB# 18026823800	1858270	Mount Sterling	Johnson Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 691 EXTRA LP OPP JOB# 18026827500	1858271	Mount Sterling	Rogers Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 693 EXTRA LP OPP JOB# 18026827700	1858272	Mount Sterling	White Avenue	ER-350 Electronic Monitoring Device Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 694 EXTRA LP OPP JOB# 18026827900	1858273	Mount Sterling	Locust Street	Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 694 EXTRA LP OPP JOB# 18026828400	1858274	Mount Sterling	Bank Street	ASV - GN - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13986 EXTRA LP OPP JOB# 18026824400	1858275	Mount Sterling	Richmond Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 5 EXTRA LP OPP JOB# 18026829000	1858276	Ashland	Bellefonte	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 7 EXTRA LP OPP JOB# 18026829200	1858277	Ashland	French Broad	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 216 EXTRA LP OPP JOB# 18026835800	1858278	Ashland	Buckley	ER-350 Electronic Monitoring Device Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 10 EXTRA LP OPP JOB# 18026829400	1858279	Ashland	Sherwood	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 11 EXTRA LP OPP JOB# 18026829600	1858280	Ashland	8th Street	LP Station Planned for Retirement Design	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 12 EXTRA LP OPP JOB# 18026829800	1858281	Ashland	Kirk	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14 EXTRA LP OPP JOB# 18026830200	1858282	Ashland	Greenup	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 16 EXTRA LP OPP JOB# 18026830400	1858283	Ashland	22nd	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 17 EXTRA LP OPP JOB# 18026830600	1858284	Ashland	Palmer	ER-350 Electronic Monitoring Device Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

Proposed 2020 SMRP Projects

Project Name	Project ID	City	Location	Facility to Install	Size(s) to Install (in)	Install Footage	Stations Retired	Material Removed	Customer Service Replacements	Start Month	Completion Month	Safety Issue Addressed	Main Cost	Service Replacement Cost	Proposed Blanket Estimate	Total Project Cost
INSTALL FN 18 EXTRA LP OPP JO# 18026830800	1858285	Ashland	Chestnut	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 19 EXTRA LP OPP JO# 18026830900	1858286	Ashland	Woodland	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 20 EXTRA LP OPP JO# 18026831100	1858287	Ashland	Greenup	ASV - GN - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 21 EXTRA LP OPP JO# 18026831300	1858288	Ashland	29th Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 22 EXTRA LP OPP JO# 18026831500	1858289	Ashland	Campbell	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 23 EXTRA LP OPP JO# 18026831700	1858290	Ashland	Douglas	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 24 EXTRA LP OPP JO# 18026831900	1858291	Ashland	33rd	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 25 EXTRA LP OPP JO# 18026832100	1858292	Ashland	Halbert	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 26 EXTRA LP OPP JO# 18026832300	1858293	Ashland	Belmont	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 27 EXTRA LP OPP JO# 18026832500	1858294	Ashland	39th	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 28 EXTRA LP OPP JO# 18026832700	1858295	Ashland	Blackburn Avenue	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 29 EXTRA LP OPP JO# 18026832900	1858296	Ashland	Newman	ASV - GN - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 804 EXTRA LP OPP JO# 18026833900	1858297	Ashland	20th	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 12954 EXTRA LP OPP JO# 18026830000	1858298	Ashland	Ferguson Road	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 31 EXTRA LP OPP JO# 18026833100	1858300	Ashland	55th	ASV - MR - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

Proposed 2020 SMRP Projects

Project Name	Project ID	City	Location	Facility to Install	Size(s) to Install (in)	Install Footage	Stations Retired	Material Removed	Customer Service Replacements	Start Month	Completion Month	Safety Issue Addressed	Main Cost	Service Replacement Cost	Proposed Blanket Estimate	Total Project Cost
INSTALL FN 32 EXTRA LP OPP JO# 18029833300	1858301	Catlettsburg	Center	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 33 EXTRA LP OPP JO# 18029833500	1858302	Catlettsburg	Center	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 35 EXTRA LP OPP JO# 18029833700	1858303	Catlettsburg	Louisa	ASV - GN-020202-150 Design, ER 350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 12813 EXTRA LP OPP JO# 18029836400	1858304	Greenup	US 23	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 12819 EXTRA LP OPP JO# 18029836200	1858305	Greenup	Elm	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 154 EXTRA LP OPP JO# 18029834100	1858307	Flatwoods	Powell Lane	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 12831 EXTRA LP OPP JO# 18029836500	1858309	Flatwoods	England Lane	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 157 EXTRA LP OPP JO# 18029834700	1858310	Russell	Railroad	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 158 EXTRA LP OPP JO# 18029834900	1858312	Raceland	Pond Run Road	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13023 EXTRA LP OPP JO# 18029836000	1858313	Greenup	Laurel Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 160 EXTRA LP OPP JO# 18029835200	1858314	Worthington	Ferry Street	ASV - GN-020202-150 Design, ER 350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 12957 EXTRA LP OPP JO# 18029835000	1858315	Worthington	3rd Street	ER-350 Electronic Monitoring Device Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 167 EXTRA LP OPP JO# 18029835400	1858316	Louisa	Lackey	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 168 EXTRA LP OPP JO# 18029835600	1858317	Louisa	Jefferson Street	ASV - GN-020202-150 Design, ER 350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 254 EXTRA LP OPP JO# 18029836700	1858318	Louisa	Pike	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

Proposed 2020 SMRP Projects

Project Name	Project ID	City	Location	Facility to Install	Size(s) to Install (in)	Install Footage	Stations Retired	Material Removed	Customer Service Replacements	Start Month	Completion Month	Safety Issue Addressed	Main Cost	Service Replacement Cost	Proposed Blanket Estimate	Total Project Cost
INSTALL FN 228 EXTRA LP OPP JO# 18029838200	1858319	Foster	4th Street	ASV - Custom Top Works Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 174 EXTRA LP OPP JO# 18029837200	1858320	Maysville	2nd Street	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 176 EXTRA LP OPP JO# 18029837600	1858321	Maysville	4th	ASV - Custom Designed OPP Top Works, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 179 EXTRA LP OPP JO# 18029838600	1858322	Maysville	Bugle	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 257 EXTRA LP OPP JO# 18029838400	1858323	Maysville	Carnation Station-1458	ASV - FT-020202-150 Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 337 EXTRA LP OPP JO# 18029838600	1858324	Maysville	KY 8 On Private R/W	Station Planned for Retirement	NA	NA	NA	Complete Station	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 347 EXTRA LP OPP JO# 18029839600	1858326	Maysville	5th	ASV - Custom Designed OPP Top Works, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 758 EXTRA LP OPP JO# 18029839200	1858327	Maysville	Reynolds	ASV - GN-020202-150 Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 19809 EXTRA LP OPP JO# 18029837800	1858328	Maysville	2nd	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 19600 EXTRA LP OPP JO# 18029839300	1858330	Maysville	Mitchell Alley	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 13340 EXTRA LP OPP JO# 18029840300	1858331	Beauty	SR40 Lower Beauty 1411	ASV - 2x2 Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14992 EXTRA LP OPP JO# 18029839500	1858332	Beauty	SR40 Upper Beauty 1412	ASV - MR-02-150 Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 14977 EXTRA LP OPP JO# 18029840100	1858333	Inez	Cassady Ave 1410	ASV - GN - Custom Design, ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 15001 EXTRA LP OPP JO# 18029839700	1858334	Inez	SR3 Inez Office 1408	ER-350 Electronic Monitoring Device, Non-Primary relief valve	NA	NA	NA	Monitor Regulator	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
INSTALL FN 15120 EXTRA LP OPP JO# 18029839900	1858335	South Williamson	Virginia Ave 1425	Station Planned for Retirement with 2020 AMRP	NA	NA	NA	Complete Station	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	

Proposed 2020 SMRP Projects

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INSTALL FN 762 EXTRA LP OPP JO# 18028600200	1856491	Maysville	Germantown Road	Station Planned for Retirement with 2020 AMRP	NA	NA	NA	Complete Station	NA	April	October	Minimize the possibility of over pressure in a low pressure system as discussed in Columbia Case No. 2019-00257.	NA	NA	NA	
Sub Totals:						156,011	15		2,532				\$23,325,485	\$10,558,440	\$116,075	\$40,406,729

COLUMBIA GAS OF KENTUCKY, INC.
RESPONSE TO STAFF'S FIRST REQUEST FOR INFORMATION
DATED NOVEMBER 20, 2019

2. Refer to the application, SMRP Form 2.0, pages 1 and 2 of 3, and the Commission's final Order in Case No. 2019-002571 (2019-00257 Order), pages 16-17. Confirm that Columbia Kentucky did not include costs associated with the Low Pressure Program incurred before the date of the 2019-00257 Order. If this cannot be confirmed, identify the location and amounts of those costs.

Response:

Columbia confirms that no costs associated with the Low Pressure Program incurred prior to the date of the Commission's order 2019-00257 are included in SMRP Form 2.0.

COLUMBIA GAS OF KENTUCKY, INC.
RESPONSE TO STAFF'S FIRST REQUEST FOR INFORMATION
DATED NOVEMBER 20, 2019

3. Refer to the application, SMRP Form 2.0, page 3 of 3, and Case No. 2019-00097 AMRP Form 2.0. Explain the differences in column "2018 Additions & Retirements."

Response:

The difference in column "2018 Additions & Retirements" between SMRP Form 2.0, page 3 of 3, and Case No. 2019-00097 AMRP Form 2.0 is due to the inclusion of two public improvement Work Orders (0561.32170266901 and 0561.32170266903) that were part of project 1635945 recorded in-service in calendar year 2018 but not included in Case No. 2019-00097. The amounts associated with these Work Orders account for the total variance between SMRP Form 2.0, page 3 of 3, and Case No. 2019-00097 AMRP Form 2.0.

COLUMBIA GAS OF KENTUCKY, INC.
RESPONSE TO STAFF'S FIRST REQUEST FOR INFORMATION
DATED NOVEMBER 20, 2019

4. Refer to the application, SMRP Form 3.0, and Case No. 2019-00257, Columbia Kentucky's response to Commission Staff's First Request for Information, Item 5. Explain whether "Projected 2020 O&M Account 887 Costs" include projected increases in operations and maintenance (O&M) expenses attributable to the low-pressure gas distribution system safety enhancement program (LP Program) and, if so, provide the amount.

Response:

At this time, incremental O&M expenses attributable to the LP Program are not included.

KY PSC Case No. 2019-00383
Response to Staff's Data Request Set One No. 5
Respondent: Craig Inscho

**COLUMBIA GAS OF KENTUCKY, INC.
RESPONSE TO STAFF'S FIRST REQUEST FOR INFORMATION
DATED NOVEMBER 20, 2019**

5. Provide an electronic copy of the application in Excel spreadsheet format with all formulas intact and cells unprotected.

Response:

Please see enclosed CD.

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program ("SMRP")
Forecasted Period Ending December 31, 2020
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<u>Form Number</u>	<u>Description</u>
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1.2	Cost of Capital
2.0	Plant Additions and Depreciation
2.1	Tax Depreciation
2.2	Unrecovered Rate Case AMRP Plant
3.0	O&M Savings
4.0	Billing Determinants

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program ("SMRP")
SMRP Rider by Rate Schedule

Line No.	Rate Schedule (1)	Base Revenue as Approved PSC Case No. 2016-00162 (2)	Allocation Percent ⁽¹⁾ (3)	Revenue Requirement (4)	Billing Determinant # of Bills ⁽²⁾ (5)	Monthly SMRP Rider (6)	Balancing Adjustment AMRP Rider ⁽⁴⁾ (7)	Total Monthly SMRP Rider (8)
1	Rate GSR, Rate SVGTS - Residential Service	\$51,773,587	64.996%	\$7,931,448	1,456,752	\$5.44	(\$0.28)	\$5.16
2	Rate GSO, Rate GDS, Rate SVGTS - Com. or Ind. Service	\$22,237,376	27.917%	\$3,406,652	166,634	\$20.44	(\$1.06)	\$19.38
3	Rate IUS, Rate IU DS	\$26,686	0.034%	\$4,088	24	\$170.33	(\$8.83)	\$161.50
4	Rate IS, Rate DS ⁽³⁾ , Rate SAS	\$5,618,358	7.053%	\$860,704	804	\$1,070.53	(\$55.59)	\$1,014.94
5	TOTAL	<u>\$79,656,007</u>	<u>100.000%</u>	<u>\$12,202,892</u>	<u>1,624,214</u>			

Notes:

⁽¹⁾ Allocation percent is based on the overall base revenue distribution approved in PSC Case No. 2016-00162

⁽²⁾ Billing Determinants based on projected twelve months ending December 31, 2020 bills

⁽³⁾ Excluding customers subject to the Flex Provisions of Rate Schedule DS.

⁽⁴⁾ Per Case No. 2019-00097.

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program ("SMRP")
Forecasted SMRP Revenue Requirement for 2020

<u>Line No.</u>		<u>SMRP Investment December 31, 2020 (1)</u>	<u>Reference (2)</u>
Return on Investment			
<u>Rate Base</u>			
1	Net SMRP Investment-Property, Plant and Equipment	97,460,103	Form 2.0
2	Cost of Removal	6,483,184	Form 2.0
3	Accumulated Reserve for Depreciation	<u>7,378,363</u>	Form 2.0 + Form 2.2
4	Net PP&E	111,321,650	
5	Deferred Taxes on Liberalized Depreciation	<u>(10,906,760)</u>	Form 2.1
6	Net Rate Base	100,414,890	Line 4 + Line 5
7	Authorized Rate of Return, Adjusted for Income Taxes	9.28%	Form 1.2
8	Required Return on SMRP Related Investment	<u>9,317,889</u>	Line 6 * Line 7
<u>Operating Expenses</u>			
9	Depreciation	1,765,545	Form 2.0
10	Property Tax ⁽¹⁾	1,325,457	Line 1 * 1.360%
11	O&M Savings FERC Account 887	(229,197)	Form 3.0
12	PSC Assessment ⁽²⁾	<u>23,198</u>	(Sum Line 8 to 11) * (.1901%/(1-.1901%))
13	Total Operating Expenses	2,885,003	Sum Lines 9 to 12
14	Total Annual Revenue Requirement	<u>12,202,892</u>	Line 8 + Line 13

Notes:

⁽¹⁾ Property taxes estimated using an effective rate of 1.360%

⁽²⁾ PSC Assessment estimated using a rate of .1901%

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program
Cost of Capital

Line No.	<u>Capital Structure</u> (1)	<u>Ratio</u> (2)	<u>Cost</u> (3)	<u>Weighted Cost</u> (4)	<u>Pre-Tax @ Effect tax of 24.95%</u> (5)
1	Short term Debt	1.26%	2.500%	0.03%	0.03%
2	Long term Debt	46.32%	5.640%	2.61%	2.61%
3	Equity	<u>52.42%</u>	9.500%	<u>4.98%</u>	<u>6.64%</u>
4	Total	100.00%		7.62%	9.28%

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program
2020 Plant Additions and Depreciation

<u>Line No.</u>	<u>Description</u> (1)	<u>Account Number</u> (2)	<u>2020 Beginning Plant Balance</u> (3)	<u>Depr Rates</u> (4)	<u>Depr on Beginning Balance</u> (5)=(3)*(4)	<u>2020 Additions & Retirements</u> (6)	<u>Current Year Depr on Addds/(Ret)</u> (7)=(4)*(6)*50%	<u>2020 Ending Plant Balance</u> (8)=(6)+(3)
<u>Additions</u>								
1	Mains	376	44,954,436	1.65%	741,748	25,221,767	208,080	70,176,203
2	Plant Regulators	378	302,449	2.20%	6,654	857,600	9,434	1,160,049
3	Plant Regulators - LP Program ⁽¹⁾	378	-	2.20%	-	6,377,638	70,154	6,377,638
4	Service Lines	380	22,006,588	3.80%	836,250	7,832,029	148,809	29,838,617
5	Meter Installations	382	166,658	2.08%	3,466	50,472	525	217,130
6	House Regulators	383	206,356	2.25%	4,643	67,223	756	273,579
7	GPS Devices	387	213,381	3.13%	6,679	-	-	213,381
8	Total Additions		67,849,868		1,599,440	40,406,729	437,758	108,256,598
<u>Retirements</u>								
9	Mains	376	(2,704,251)	1.65%	(44,620)	(1,427,552)	(11,777)	(4,131,803)
10	Plant Regulators	378	(4,277)	2.20%	(94)	(28,215)	(310)	(32,492)
11	Plant Regulators - LP Program ⁽¹⁾	378	-	2.20%	-	(209,824)	(2,308)	(209,824)
12	Service Lines	380	(4,766,033)	3.80%	(181,109)	(1,597,734)	(30,357)	(6,363,767)
13	Meter Installations	382	(40,392)	2.08%	(840)	(12,169)	(127)	(52,561)
14	House Regulators	383	(3,843)	2.25%	(86)	(2,205)	(25)	(6,048)
15	GPS Devices	387	-	3.13%	-	-	-	-
16	Total Retirements		(7,518,796)		(226,749)	(3,277,699)	(44,904)	(10,796,495)
17	<u>Total Plant</u>		<u>60,331,073</u>		<u>1,372,691</u>	<u>37,129,030</u>	<u>392,854</u>	<u>97,460,103</u>
<u>Cost of Removal</u>								
18	Mains	376	1,397,650			285,510		1,683,161
19	Plant Regulators	378	4,035			4,232		8,267
20	Plant Regulators - LP Program ⁽¹⁾	378	-			31,474		31,474
21	Service Lines	380	3,721,037			1,038,527		4,759,564
22	Meter Installations	382	-			608		608
23	House Regulators	383	-			110		110
24	GPS Devices	387	-			-		-
25	Total Cost of Removal		5,122,722			1,360,462		6,483,184

Notes:

⁽¹⁾ Includes forecasted costs for low pressure gas distribution system safety enhancement program ("LP Program") currently pending in Case No. 2019-00257.

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program
2019 Plant Additions and Depreciation

<u>Line No.</u>	<u>Description</u> (1)	<u>Account Number</u> (2)	<u>2019 Beginning Plant Balance</u> (3)	<u>Depr Rates</u> (4)	<u>Depr on Beginning Balance</u> (5)=(3)*(4)	<u>2019 Additions & Retirements</u> (6)	<u>Current Year Depr on Addds/(Ret)</u> (7)=(4)*(6)*50%	<u>2019 Ending Plant Balance</u> (8)=(6)+(3)
<u>Additions</u>								
1	Mains	376	24,991,378	1.65%	412,358	19,963,058	164,695	44,954,436
2	Plant Regulators	378	227,813	2.20%	5,012	74,636	821	302,449
3	Service Lines	380	11,779,616	3.80%	447,625	10,226,972	194,312	22,006,588
4	Meter Installations	382	143,423	2.08%	2,983	23,234	242	166,658
5	House Regulators	383	120,946	2.25%	2,721	85,410	961	206,356
6	GPS Devices	387	<u>213,381</u>	3.13%	<u>6,679</u>	<u>-</u>	<u>-</u>	<u>213,381</u>
7	Total Additions		37,476,557		877,378	30,373,311	361,031	67,849,868
<u>Retirements</u>								
8	Mains	376	(1,312,591)	1.65%	(21,658)	(1,391,660)	(11,481)	(2,704,251)
9	Plant Regulators	378	(4,277)	2.20%	(94)	-	-	(4,277)
10	Service Lines	380	(2,592,188)	3.80%	(98,503)	(2,173,844)	(41,303)	(4,766,033)
11	Meter Installations	382	(30,363)	2.08%	(632)	(10,029)	(104)	(40,392)
12	House Regulators	383	(2,758)	2.25%	(62)	(1,085)	(12)	(3,843)
13	GPS Devices	387	<u>-</u>	3.13%	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
14	Total Retirements		(3,942,177)		(120,949)	(3,576,619)	(52,900)	(7,518,796)
15	<u>Total Plant</u>		<u>33,534,380</u>		<u>756,429</u>	<u>26,796,693</u>	<u>308,131</u>	<u>60,331,073</u>
<u>Cost of Removal</u>								
16	Mains	376	731,421			666,229		1,397,650
17	Plant Regulators	378	4,035			-		4,035
18	Service Lines	380	2,188,776			1,532,261		3,721,037
19	Meter Installations	382	-			-		-
20	House Regulators	383	-			-		-
21	GPS Devices	387	<u>-</u>			<u>-</u>		<u>-</u>
22	Total Cost of Removal		2,924,232			2,198,490		5,122,722

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program
2018 Plant Additions and Depreciation

<u>Line No.</u>	<u>Description</u> (1)	<u>Account Number</u> (2)	<u>2018 Beginning Plant Balance</u> ⁽¹⁾ (3)	<u>Depr Rates</u> (4)	<u>Depr on Beginning Balance</u> (5)=(3)*(4)	<u>2018 Additions & Retirements</u> (6)	<u>Current Year Depr on Addds/(Ret)</u> (7)=(4)*(6)*50%	<u>2018 Ending Plant Balance</u> (8)=(6)+3
<u>Additions</u>								
1	Mains	376	10,446,894	1.65%	172,374	14,544,484	119,992	24,991,378
2	Plant Regulators	378	98,242	2.20%	2,161	129,571	1,425	227,813
3	Service Lines	380	4,164,307	3.80%	158,244	7,615,309	144,691	11,779,616
4	Meter Installations	382	32,675	2.08%	680	110,748	1,152	143,423
5	House Regulators	383	65,220	2.25%	1,467	55,726	627	120,946
6	GPS Devices	387	<u>213,381</u>	3.13%	<u>6,679</u>	<u>-</u>	<u>-</u>	<u>213,381</u>
7	Total Additions		15,020,719		341,605	22,455,838	267,887	37,476,557
<u>Retirements</u>								
8	Mains	376	(92,176)	1.65%	(1,521)	(1,220,415)	(10,068)	(1,312,591)
9	Plant Regulators	378	(4,128)	2.20%	(91)	(149)	(2)	(4,277)
10	Service Lines	380	(997,218)	3.80%	(37,894)	(1,594,970)	(30,304)	(2,592,188)
11	Meter Installations	382	(12,084)	2.08%	(251)	(18,279)	(190)	(30,363)
12	House Regulators	383	(1,152)	2.25%	(26)	(1,606)	(18)	(2,758)
13	GPS Devices	387	<u>-</u>	3.13%	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
14	Total Retirements		(1,106,758)		(39,783)	(2,835,419)	(40,582)	(3,942,177)
15	<u>Total Plant</u>		<u>13,913,961</u>		<u>301,822</u>	<u>19,620,419</u>	<u>227,305</u>	<u>33,534,380</u>
<u>Cost of Removal</u>								
16	Mains	376	145,583			585,838		731,421
17	Plant Regulators	378	4,035			-		4,035
18	Service Lines	380	1,031,624			1,157,152		2,188,776
19	Meter Installations	382	-			-		-
20	House Regulators	383	-			-		-
21	GPS Devices	387	<u>-</u>			<u>-</u>		<u>-</u>
22	Total Cost of Removal		1,181,242			1,742,990		2,924,232

Notes:

⁽¹⁾ See Form 2.2 for detail of 2017 AMRP eligible capital additions.

Columbia Gas of Kentucky, Inc.
Calculation of Accumulated Deferred Income Tax
Annual Adjustment to the Safety Modification and Replacement Program

Ln. No.	MACRS 20 Year Tax Depr Rates	Year	2017 Jan-Sept Additions	2017 Oct-Dec Additions	2018 Additions	2019 Additions	2020 Additions	Annual Tax Depreciation	Cost of Removal	Book Depreciation	Difference	Deferred Tax @ [1] [2] 24.95%	Accumulated Deferred Income Taxes-Fed NOL	ADIT Normalization Adjustment	Accumulated Deferred Inc. Taxes
	(1)	(2)	(3)	(4)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
			(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
1	Total Plant Additions		<u>2,770,290</u>	<u>12,250,429</u>	<u>22,455,838</u>	<u>30,373,311</u>	<u>40,406,729</u>								
2															
3	0.03750	1	1,659,688	12,250,429				13,910,117	1,181,242	58,900	15,032,459	5,327,100	(1,063,610)	-	4,263,490
4	0.07219	2	83,298	-	6,999,162			7,082,460	1,742,990	529,127	8,296,323	2,109,473	-	-	6,372,963
5	0.06677	3	77,044	-	1,159,291	9,518,764		10,755,099	2,198,490	1,064,560	11,889,029	3,002,886	-	-	9,375,849
6	0.06177	4	71,274	-	1,072,251	1,564,145	10,965,956	13,673,626	1,360,462	1,765,545	13,268,543	3,344,335	-	(1,813,424)	10,906,760
7	0.05713	5	65,921	-	991,957	1,446,710	2,208,135	4,712,723		1,765,545	2,947,178	766,612	-	-	11,673,372
8	0.05285	6	60,982	-	917,444	1,338,374	2,042,348	4,359,148		1,765,545	2,593,603	676,052	-	-	12,349,425
9	0.04888	7	56,401	-	848,712	1,237,839	1,889,410	4,032,362		1,765,545	2,266,817	592,344	-	-	12,941,768
10	0.04522	8	52,178	-	784,958	1,145,104	1,747,482	3,729,722		1,765,545	1,964,177	514,831	-	-	13,456,599
11	0.04462	9	51,486	-	726,182	1,059,086	1,616,567	3,453,321		1,765,545	1,687,776	445,540	-	-	13,902,139
12	0.04461	10	51,474	-	716,548	979,785	1,495,132	3,242,939		1,765,545	1,477,394	393,044	-	-	14,295,183
13	0.04462	11	51,486	-	716,387	966,784	1,383,181	3,117,838		1,765,545	1,352,293	361,837	-	-	14,657,020
14	0.04461	12	51,474	-	716,548	966,567	1,364,829	3,099,418		1,765,545	1,333,873	357,237	-	-	15,014,257
15	0.04462	13	51,486	-	716,387	966,784	1,364,523	3,099,180		1,765,545	1,333,635	357,182	-	-	15,371,439
16	0.04461	14	51,474	-	716,548	966,567	1,364,829	3,099,418		1,765,545	1,333,873	357,237	-	-	15,728,676
17	0.04462	15	51,486	-	716,387	966,784	1,364,523	3,099,180		1,765,545	1,333,635	357,182	-	-	16,085,858
18	0.04461	16	51,474	-	716,548	966,567	1,364,829	3,099,418		1,765,545	1,333,873	357,237	-	-	16,443,094
19	0.04462	17	51,486	-	716,387	966,784	1,364,523	3,099,180		1,765,545	1,333,635	357,182	-	-	16,800,277
20	0.04461	18	51,474	-	716,548	966,567	1,364,829	3,099,418		1,765,545	1,333,873	357,237	-	-	17,157,513
21	0.04462	19	51,486	-	716,387	966,784	1,364,523	3,099,180		1,765,545	1,333,635	357,182	-	-	17,514,695
22	0.04461	20	51,474	-	716,548	966,567	1,364,829	3,099,418		1,765,545	1,333,873	357,237	-	-	17,871,932
23	0.02231	21	25,743	-	716,387	966,784	1,364,523	3,073,437		1,765,545	1,307,892	338,539	-	-	18,210,471
24		22		-	358,274	966,567	1,364,829	2,689,670		1,765,545	924,125	237,242	-	-	18,447,714
25						483,392	1,364,523	1,847,915		1,765,545	82,370	20,551	-	-	18,468,265
26							682,414	682,414		1,765,545	-	-	-	-	18,468,265
27			2,770,289	12,250,429	22,455,841	30,373,305	40,406,737	108,256,601	6,483,184	38,729,032					

Notes:

[1] Includes adjustment for state disallowance on 2017 bonus tax depreciation as calculated on Form 2.1 pages 4 through 7.

[2] Deferred Taxes calculated beginning 1/1/2018 using 21% Corporate Tax Rate and 5% State Tax Rate.

Columbia Gas of Kentucky, Inc.
Calculation of Accumulated Deferred Income Tax
Annual Adjustment to the Safety Modification and Replacement Program

Ln. No.	MACRS 20 Year Tax Depr Rates (1)	Year (2)	2017 Jan-Sept	2017 Oct-Dec	2018	2019	2020	Annual Tax Depreciation	Cost of Removal	Book Depreciation	Difference	Deferred Tax @ 24.95% [3]	Accumulated Deferred Income Taxes-Fed NOL	ADIT Normalization Adjustment	Accumulated Deferred Inc. Taxes
			Additions (3)	Additions (4)	Additions (5)	Additions (6)	Additions (6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	AMRP Plant Additions [1]		<u>2,374,447</u>	<u>12,236,754</u>	<u>22,159,793</u>	<u>30,190,031</u>	<u>33,053,796</u>								
2	Composite Tax Rate [2]		59.406%	100.000%	28.814%	28.814%	28.814%								
3	0.03750	1	1,446,706	12,236,754				13,683,460	1,177,207	55,213	14,805,454	5,759,322	(1,034,612)	-	4,724,710
4	0.07219	2	69,583	-	6,976,634			7,046,217	1,742,990	515,514	8,273,693	2,064,286	-	-	6,788,996
5	0.06677	3	64,359	-	1,138,776	9,504,817		10,707,952	2,198,490	1,046,045	11,860,397	2,959,169	-	-	9,748,165
6	0.06177	4	59,539	-	1,053,277	1,551,445	10,406,425	13,070,686	1,324,037	1,667,024	12,727,699	3,175,561	-	(1,483,430)	11,440,296
7	0.05713	5	55,067	-	974,404	1,434,963	1,698,612	4,163,046		1,667,024	2,496,022	622,757	-	-	12,063,053
8	0.05285	6	50,941	-	901,209	1,327,507	1,571,080	3,850,737		1,667,024	2,183,713	544,836	-	-	12,607,889
9	0.04888	7	47,115	-	833,693	1,227,788	1,453,432	3,562,028		1,667,024	1,895,004	472,803	-	-	13,080,692
10	0.04522	8	43,587	-	771,068	1,135,806	1,344,254	3,294,715		1,667,024	1,627,691	406,109	-	-	13,486,801
11	0.04462	9	43,009	-	713,332	1,050,486	1,243,547	3,050,374		1,667,024	1,383,350	345,146	-	-	13,831,947
12	0.04461	10	42,999	-	703,868	971,829	1,150,133	2,868,829		1,667,024	1,201,805	299,850	-	-	14,131,797
13	0.04462	11	43,009	-	703,710	958,934	1,064,015	2,769,668		1,667,024	1,102,644	275,110	-	-	14,406,907
14	0.04461	12	42,999	-	703,868	958,719	1,049,897	2,755,483		1,667,024	1,088,459	271,571	-	-	14,678,478
15	0.04462	13	43,009	-	703,710	958,934	1,049,662	2,755,315		1,667,024	1,088,291	271,529	-	-	14,950,007
16	0.04461	14	42,999	-	703,868	958,719	1,049,897	2,755,483		1,667,024	1,088,459	271,571	-	-	15,221,578
17	0.04462	15	43,009	-	703,710	958,934	1,049,662	2,755,315		1,667,024	1,088,291	271,529	-	-	15,493,107
18	0.04461	16	42,999	-	703,868	958,719	1,049,897	2,755,483		1,667,024	1,088,459	271,571	-	-	15,764,678
19	0.04462	17	43,009	-	703,710	958,934	1,049,662	2,755,315		1,667,024	1,088,291	271,529	-	-	16,036,207
20	0.04461	18	42,999	-	703,868	958,719	1,049,897	2,755,483		1,667,024	1,088,459	271,571	-	-	16,307,778
21	0.04462	19	43,009	-	703,710	958,934	1,049,662	2,755,315		1,667,024	1,088,291	271,529	-	-	16,579,307
22	0.04461	20	42,999	-	703,868	958,719	1,049,897	2,755,483		1,667,024	1,088,459	271,571	-	-	16,850,878
23	0.02231	21	21,504	-	703,710	958,934	1,049,662	2,733,810		1,667,024	1,066,786	266,163	-	-	17,117,041
24		22		-	351,934	958,719	1,049,897	2,360,550		1,667,024	693,526	173,035	-	-	17,290,076
25				-		479,467	1,049,662	1,529,129		1,667,024	(137,895)	(34,405)	-	-	17,255,671
26				-			524,948	524,948		1,667,024	(1,142,076)	(284,948)	-	-	16,970,723
27			<u>2,374,447</u>	<u>12,236,752</u>	<u>22,159,791</u>	<u>30,190,026</u>	<u>33,053,800</u>	<u>100,014,824</u>	<u>6,442,725</u>	<u>36,624,276</u>					

Notes:
 [1] Plant additions eligible for repairs tax deduction.
 [2] Composite rate including repairs (15.42% for 2017 and 25.84% for 2018-2020) and mixed services 263A (4.01%) and bonus tax (50% for January-September 2017 and 100% for October-December 2017) deductions.
 [3] Deferred Taxes calculated beginning 1/1/2018 using 21% Corporate Tax Rate and 5% State Tax Rate.

Columbia Gas of Kentucky, Inc.
Calculation of Accumulated Deferred Income Tax
Annual Adjustment to the Safety Modification and Replacement Program

Ln. No.	MACRS 20 Year Tax Depr Rates (1)	Year (2)	2017 Jan-Sept Additions (3)	2017 Oct-Dec Additions (4)	2018 Additions (4)	2019 Additions (5)	2020 Additions (6)	Annual Tax Depreciation (7)	Cost of Removal (8)	Book Depreciation (9)	Difference (10)	Deferred Tax @ 24.95% [2] (11)	Accumulated Deferred Income Taxes-Fed NOL (12)	ADIT Normalization Adjustment (13)	Accumulated Deferred Inc. Taxes (14)
1	Plant Additions [1]		395,843	13,675	296,045	183,281	7,352,933								
2	Tax MSC 263A %		52.005%	100.000%	4.010%	4.010%	4.010%								
3	0.03750	1	212,982	13,675				226,657	4,035	3,687	227,005	88,305	(28,998)	-	59,307
4	0.07219	2	13,715	-	22,528			36,243	-	13,613	22,630	5,646	-	-	64,953
5	0.06677	3	12,685	-	20,515	13,947		47,147	-	18,515	28,632	7,144	-	-	72,097
6	0.06177	4	11,735	-	18,974	12,700	559,531	602,940	36,425	98,521	540,844	134,940	-	(329,994)	(122,957)
7	0.05713	5	10,854	-	17,553	11,747	509,523	549,677		98,521	451,156	112,563	-	-	(10,394)
8	0.05285	6	10,041	-	16,235	10,867	471,268	508,411		98,521	409,890	102,268	-	-	91,874
9	0.04888	7	9,286	-	15,019	10,051	435,978	470,334		98,521	371,813	92,767	-	-	184,641
10	0.04522	8	8,591	-	13,890	9,298	403,228	435,007		98,521	336,486	83,953	-	-	268,594
11	0.04462	9	8,477	-	12,850	8,600	373,020	402,947		98,521	304,426	75,954	-	-	344,548
12	0.04461	10	8,475	-	12,680	7,956	344,999	374,110		98,521	275,589	68,759	-	-	413,307
13	0.04462	11	8,477	-	12,677	7,850	319,166	348,170		98,521	249,649	62,287	-	-	475,594
14	0.04461	12	8,475	-	12,680	7,848	314,932	343,935		98,521	245,414	61,231	-	-	536,825
15	0.04462	13	8,477	-	12,677	7,850	314,861	343,865		98,521	245,344	61,213	-	-	598,038
16	0.04461	14	8,475	-	12,680	7,848	314,932	343,935		98,521	245,414	61,231	-	-	659,269
17	0.04462	15	8,477	-	12,677	7,850	314,861	343,865		98,521	245,344	61,213	-	-	720,482
18	0.04461	16	8,475	-	12,680	7,848	314,932	343,935		98,521	245,414	61,231	-	-	781,713
19	0.04462	17	8,477	-	12,677	7,850	314,861	343,865		98,521	245,344	61,213	-	-	842,926
20	0.04461	18	8,475	-	12,680	7,848	314,932	343,935		98,521	245,414	61,231	-	-	904,157
21	0.04462	19	8,477	-	12,677	7,850	314,861	343,865		98,521	245,344	61,213	-	-	965,370
22	0.04461	20	8,475	-	12,680	7,848	314,932	343,935		98,521	245,414	61,231	-	-	1,026,601
23	0.02231	21	4,239	-	12,677	7,850	314,861	339,627		98,521	241,106	60,156	-	-	1,086,757
24		22			6,340	7,848	314,932	329,120		98,521	230,599	57,534	-	-	1,144,291
25						3,925	314,861	318,786		98,521	220,265	54,956	-	-	1,199,247
26							157,466	157,466		98,521	58,945	14,707	-	-	1,213,954
27			395,840	13,675	296,046	183,279	7,352,937	8,241,777	40,460	2,104,756					

Notes:

[1] Plant additions not eligible for repairs tax deduction.

[2] Deferred Taxes calculated beginning 1/1/2018 using 21% Corporate Tax Rate and 5% State Tax Rate.

Columbia Gas of Kentucky, Inc.
Calculation of State Disallowance on Bonus Tax Depreciation for 2017 Additions

SMRP Form 2.1
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<u>Ln.</u>	<u>Year</u>	<u>State Tax Depr</u>	<u>State ADIT</u>			<u>Total ADIT Adj</u>	<u>Cumulative ADIT Adj</u>
			<u>State vs. Fed Tax Depr</u>	<u>on Disallowed Bonus</u>	<u>Fed Benefit ADIT</u>		
	<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>
1	2017	563,277	13,346,840	800,810	(280,284)	520,527	520,527
2	2018	1,084,346	(1,001,048)	(50,052)	10,511	(39,541)	480,985
3	2019	1,002,933	(925,889)	(46,294)	9,722	(36,573)	444,413
4	2020	927,830	(856,556)	(42,828)	8,994	(33,834)	410,579
5	2021	858,134	(792,213)	(39,611)	8,318	(31,292)	379,286
6	2022	793,845	(732,863)	(36,643)	7,695	(28,948)	350,338
7	2023	734,213	(677,812)	(33,891)	7,117	(26,774)	323,565
8	2024	679,237	(627,059)	(31,353)	6,584	(24,769)	298,796
9	2025	670,224	(618,738)	(30,937)	6,497	(24,440)	274,356
10	2026	670,074	(618,600)	(30,930)	6,495	(24,435)	249,921
11	2027	670,224	(618,738)	(30,937)	6,497	(24,440)	225,481
12	2028	670,074	(618,600)	(30,930)	6,495	(24,435)	201,046
13	2029	670,224	(618,738)	(30,937)	6,497	(24,440)	176,606
14	2030	670,074	(618,600)	(30,930)	6,495	(24,435)	152,171
15	2031	670,224	(618,738)	(30,937)	6,497	(24,440)	127,731
16	2032	670,074	(618,600)	(30,930)	6,495	(24,435)	103,296
17	2033	670,224	(618,738)	(30,937)	6,497	(24,440)	78,856
18	2034	670,074	(618,600)	(30,930)	6,495	(24,435)	54,422
19	2035	670,224	(618,738)	(30,937)	6,497	(24,440)	29,981
20	2036	670,074	(618,600)	(30,930)	6,495	(24,435)	5,547
21	2037	335,112	(309,369)	(15,468)	3,248	(12,220)	(6,673)
22	Total	15,020,719	(1)	133,468	(140,142)	(6,673)	-

Columbia Gas of Kentucky, Inc.
 Calculation of State Disallowance on Bonus Tax Depreciation for 2018 Additions

<u>Ln.</u>	<u>Year</u>	<u>State Tax Depr</u>	<u>State vs. Fed</u>	<u>State ADIT</u>		<u>Total</u>	<u>Cumulative</u>
				<u>Tax Depr</u>	<u>on Disallowed</u>		
	(1)	(2)	(3)	<u>Bonus</u>	<u>ADIT</u>	(6)	(7)
				(4)	(5)		
1	2018	-	-	-	-	-	-
2	2019	-	-	-	-	-	-
3	2020	-	-	-	-	-	-
4	2021	-	-	-	-	-	-
5	2022	-	-	-	-	-	-
6	2023	-	-	-	-	-	-
7	2024	-	-	-	-	-	-
8	2025	-	-	-	-	-	-
9	2026	-	-	-	-	-	-
10	2027	-	-	-	-	-	-
11	2028	-	-	-	-	-	-
12	2029	-	-	-	-	-	-
13	2030	-	-	-	-	-	-
14	2031	-	-	-	-	-	-
15	2032	-	-	-	-	-	-
16	2033	-	-	-	-	-	-
17	2034	-	-	-	-	-	-
18	2035	-	-	-	-	-	-
19	2036	-	-	-	-	-	-
20	2037	-	-	-	-	-	-
21	2038	-	-	-	-	-	-
22	Total	-	-	-	-	-	-

Columbia Gas of Kentucky, Inc.
Calculation of State Disallowance on Bonus Tax Depreciation for 2019 Additions

<u>Ln.</u>	<u>Year</u>	<u>State Tax Depr</u>	<u>State vs. Fed</u>	<u>State ADIT</u>		<u>Total</u>	<u>Cumulative</u>
				<u>Tax Depr</u>	<u>on Disallowed</u>		
	(1)	(2)	(3)	<u>Bonus</u>	<u>ADIT</u>	(6)	(7)
				(4)	(5)		
1	2019	-	-	-	-	-	-
2	2020	-	-	-	-	-	-
3	2021	-	-	-	-	-	-
4	2022	-	-	-	-	-	-
5	2023	-	-	-	-	-	-
6	2024	-	-	-	-	-	-
7	2025	-	-	-	-	-	-
8	2026	-	-	-	-	-	-
9	2027	-	-	-	-	-	-
10	2028	-	-	-	-	-	-
11	2029	-	-	-	-	-	-
12	2030	-	-	-	-	-	-
13	2031	-	-	-	-	-	-
14	2032	-	-	-	-	-	-
15	2033	-	-	-	-	-	-
16	2034	-	-	-	-	-	-
17	2035	-	-	-	-	-	-
18	2036	-	-	-	-	-	-
19	2037	-	-	-	-	-	-
20	2038	-	-	-	-	-	-
21	2039	-	-	-	-	-	-
22	Total	-	-	-	-	-	-

Columbia Gas of Kentucky, Inc.
Calculation of State Disallowance on Bonus Tax Depreciation for 2020 Additions

<u>Ln.</u>	<u>Year</u>	<u>State Tax Depr</u>	<u>State vs. Fed</u>	<u>State ADIT</u>		<u>Total</u>	<u>Cumulative</u>
				<u>Tax Depr</u>	<u>on Disallowed</u>		
	(1)	(2)	(3)	<u>Bonus</u>	<u>ADIT</u>	(6)	(7)
				(4)	(5)		
1	2020	-	-	-	-	-	-
2	2021	-	-	-	-	-	-
3	2022	-	-	-	-	-	-
4	2023	-	-	-	-	-	-
5	2024	-	-	-	-	-	-
6	2025	-	-	-	-	-	-
7	2026	-	-	-	-	-	-
8	2027	-	-	-	-	-	-
9	2028	-	-	-	-	-	-
10	2029	-	-	-	-	-	-
11	2030	-	-	-	-	-	-
12	2031	-	-	-	-	-	-
13	2032	-	-	-	-	-	-
14	2033	-	-	-	-	-	-
15	2034	-	-	-	-	-	-
16	2035	-	-	-	-	-	-
17	2036	-	-	-	-	-	-
18	2037	-	-	-	-	-	-
19	2038	-	-	-	-	-	-
20	2039	-	-	-	-	-	-
21	2040	-	-	-	-	-	-
22	Total	-	-	-	-	-	-

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program
Development of AMRP Plant Excluded From Base Rates

Test Year 12/31/17 AMRP Investment Summary

Line No.	Month	Number of Months	AMRP CapEx	Rate Case Projected CapEx	13 Mo. Avg Rate Case Projections (1)	Actual Retirements	Rate Case Projected Retirements	13 Mo. Avg Rate Case Projections (1)	Actual Cost of Removal	Rate Case Projected Cost of Removal	13 Mo. Avg Rate Case Projections (1)	Depreciation Difference (2)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
1	Jan-17	12	203,041	787,036	726,495	(205,883)	(94,444)	(87,179)	(30,462)	(28,611)	(26,410)	(745)
2	Feb-17	11	922,620	420,451	355,766	(186,937)	(50,454)	(42,692)	(242,178)	(15,243)	(12,898)	(811)
3	Mar-17	10	607,894	512,097	393,921	(85,345)	(61,451)	(47,270)	(102,824)	(18,585)	(14,296)	243
4	Apr-17	9	775,824	741,213	513,147	(116,998)	(88,945)	(61,577)	(107,563)	(26,940)	(18,651)	943
5	May-17	8	876,331	1,199,444	738,119	(123,416)	(143,933)	(88,574)	(86,050)	(43,650)	(26,862)	1,462
6	Jun-17	7	1,602,481	1,657,675	892,594	(99,874)	(198,921)	(107,111)	(152,240)	(60,361)	(32,502)	2,449
7	Jul-17	6	823,855	1,657,675	765,081	(147,310)	(198,921)	(91,810)	(258,600)	(60,361)	(27,859)	3,319
8	Aug-17	5	2,151,785	2,917,811	1,122,235	(271,819)	(350,138)	(134,668)	(126,063)	(106,314)	(40,890)	4,040
9	Sep-17	4	1,190,456	2,849,075	876,638	(222,726)	(341,889)	(105,197)	(162,635)	(103,808)	(31,941)	5,142
10	Oct-17	3	2,371,548	2,917,811	673,341	(228,831)	(350,138)	(80,801)	(46,556)	(106,314)	(24,534)	7,141
11	Nov-17	2	6,490,489	1,772,233	272,651	(176,567)	(212,668)	(32,718)	(41,336)	(64,538)	(9,929)	13,741
12	Dec-17	1	4,470,710	1,772,233	136,326	(137,009)	(212,668)	(16,359)	(96,471)	(64,538)	(4,964)	21,976
13			22,487,034	19,204,754	7,466,315	(2,002,715)	(2,304,570)	(895,957)	(1,452,978)	(699,263)	(271,736)	58,900
14	Rate Year Summary		20,484,319	6,570,358	13,913,961				(3,455,693)	(1,167,693)	(2,288,000)	

Test Year 12/31/17 AMRP - Mains Gas Plant Account 376

Line No.	Month	Number of Months	Actual AMRP CapEx	Rate Case Projected CapEx	13 Mo. Avg Rate Case Projections (1)	Actual Retirements	Rate Case Projected Retirements	13 Mo. Avg Rate Case Projections (1)	Actual Cost of Removal	Rate Case Projected Cost of Removal	13 Mo. Avg Rate Case Projections (1)	Depreciation Difference (2)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
1	Jan-17	12	202,765	443,119	409,033	(144,500)	(53,174)	(49,084)	(28,920)	(7,976)	(7,362)	(207)
2	Feb-17	11	265,790	237,719	201,147	(115,673)	(28,526)	(24,137)	(76,799)	(4,279)	(3,621)	(433)
3	Mar-17	10	91,930	289,069	222,361	(3,618)	(34,688)	(26,683)	(1,566)	(5,203)	(4,002)	(526)
4	Apr-17	9	250,848	417,444	289,000	(2,295)	(50,093)	(34,680)	(1,836)	(7,514)	(5,202)	(603)
5	May-17	8	327,909	674,194	414,889	(12,563)	(80,903)	(49,786)	(4,486)	(12,135)	(7,468)	(642)
6	Jun-17	7	825,284	930,943	501,277	(3,713)	(111,713)	(60,153)	(3,277)	(16,757)	(9,023)	(414)
7	Jul-17	6	301,451	930,943	429,666	(8,665)	(111,713)	(51,560)	(1,665)	(16,757)	(7,734)	(211)
8	Aug-17	5	1,439,639	1,637,005	629,617	(53,989)	(196,441)	(75,554)	(39,460)	(29,466)	(11,333)	302
9	Sep-17	4	190,029	1,598,492	491,844	(43,650)	(191,819)	(59,021)	(33,461)	(28,773)	(8,853)	677
10	Oct-17	3	1,447,194	1,637,005	377,770	(97,804)	(196,441)	(45,333)	(16,495)	(29,466)	(6,800)	1,179
11	Nov-17	2	5,232,912	995,131	153,097	(12,782)	(119,416)	(18,372)	(6,996)	(17,912)	(2,756)	5,374
12	Dec-17	1	4,067,392	995,131	76,549	(96,473)	(119,416)	(9,186)	(6,154)	(17,912)	(1,378)	11,554
13			14,643,143	10,786,195	4,196,249	(595,725)	(1,294,343)	(503,549)	(221,115)	(194,150)	(75,532)	16,048
14	Rate Year GPA 376 Summary		14,047,418	3,692,700	10,354,718				(816,840)	(579,081)	(237,759)	

Notes:

(1) Recovered through base rates in Case No. 2016-00162

(2) AMRP spend not recovered through base rates and eligible for recovery through 2017 AMRP

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program
Development of AMRP Plant Excluded From Base Rates

Test Year 12/31/17 AMRP - Meter Installations Plant Account 382

Line No.	Month	Number of Months	Actual AMRP CapEx	Rate Case Projected CapEx	13 Mo. Avg Rate Case Projections (1)	Actual Retirements	Rate Case Projected Retirements	13 Mo. Avg Rate Case Projections (1)	Actual Cost of Removal	Rate Case Projected Cost of Removal	13 Mo. Avg Rate Case Projections (1)	Depreciation Difference (2)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
1	Jan-17	12	-	-	-	(376)	-	-	-	-	-	(0)
2	Feb-17	11	4,788	-	-	(782)	-	-	-	-	-	3
3	Mar-17	10	3,883	-	-	(1,120)	-	-	-	-	-	9
4	Apr-17	9	1,149	-	-	(973)	-	-	-	-	-	11
5	May-17	8	4,974	-	-	(954)	-	-	-	-	-	15
6	Jun-17	7	2,114	-	-	(546)	-	-	-	-	-	20
7	Jul-17	6	5,345	-	-	(1,674)	-	-	-	-	-	24
8	Aug-17	5	1,464	-	-	(721)	-	-	-	-	-	28
9	Sep-17	4	3,093	-	-	(1,337)	-	-	-	-	-	30
10	Oct-17	3	1,317	-	-	(1,565)	-	-	-	-	-	32
11	Nov-17	2	4,763	-	-	(1,255)	-	-	-	-	-	34
12	Dec-17	1	(215)	-	-	(781)	-	-	-	-	-	37
13			32,675	0	0	(12,084)	0	0	0	0	0	242

Line No.	Actual Net Plant Additions	Rate Case 13-Month Average Net Plant Additions	Net Plant Additions Not Included in Base Rates - Jan 2017 - Dec 2017 (2)	Actual Depreciation Reserve - Retirements and Cost of Removal	Rate Case 13-Mo. Avg Depreciation Reserve - Retirements and Cost of Removal	Depreciation Reserve Not Included in Base Rates - Jan 2017 - Dec 2017 (2)
14 Rate Year GPA 382 Summary	20,591	0	20,591	(12,084)	0	(12,084)

Test Year 12/31/17 AMRP - House Regulators Plant Account 383

Line No.	Month	Number of Months	Actual AMRP CapEx	Rate Case Projected CapEx	13 Mo. Avg Rate Case Projections (1)	Actual Retirements	Rate Case Projected Retirements	13 Mo. Avg Rate Case Projections (1)	Actual Cost of Removal	Rate Case Projected Cost of Removal	13 Mo. Avg Rate Case Projections (1)	Depreciation Difference (2)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
1	Jan-17	12	-	-	-	(123)	-	-	-	-	-	(0)
2	Feb-17	11	7,104	-	-	(62)	-	-	-	-	-	6
3	Mar-17	10	83	-	-	(147)	-	-	-	-	-	13
4	Apr-17	9	11,236	-	-	(27)	-	-	-	-	-	23
5	May-17	8	1,474	-	-	(108)	-	-	-	-	-	35
6	Jun-17	7	1,963	-	-	(35)	-	-	-	-	-	38
7	Jul-17	6	911	-	-	(81)	-	-	-	-	-	41
8	Aug-17	5	38,757	-	-	(47)	-	-	-	-	-	78
9	Sep-17	4	995	-	-	(208)	-	-	-	-	-	115
10	Oct-17	3	2,042	-	-	(136)	-	-	-	-	-	117
11	Nov-17	2	453	-	-	(118)	-	-	-	-	-	120
12	Dec-17	1	202	-	-	(60)	-	-	-	-	-	120
13			65,220	0	0	(1,152)	0	0	0	0	0	707

Line No.	Actual Net Plant Additions	Rate Case 13-Month Average Net Plant Additions	Net Plant Additions Not Included in Base Rates - Jan 2017 - Dec 2017 (2)	Actual Depreciation Reserve - Retirements and Cost of Removal	Rate Case 13-Mo. Avg Depreciation Reserve - Retirements and Cost of Removal	Depreciation Reserve Not Included in Base Rates - Jan 2017 - Dec 2017 (2)
14 Rate Year GPA 383 Summary	64,068	0	64,068	(1,152)	0	(1,152)

Notes:

⁽¹⁾ Recovered through base rates in Case No. 2016-00162

⁽²⁾ AMRP spend not recovered through base rates and eligible for recovery through 2017 AMRP

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program
Development of AMRP Plant Excluded From Base Rates

Test Year 12/31/17 AMRP - GPS Devices Plant Account 387

Line No.	Month	Number of Months	Actual AMRP CapEx	Rate Case Projected CapEx	13 Mo. Avg Rate Case Projections (1)	Actual Retirements	Rate Case Projected Retirements	13 Mo. Avg Rate Case Projections (1)	Actual Cost of Removal	Rate Case Projected Cost of Removal	13 Mo. Avg Rate Case Projections (1)	Depreciation Difference (2)
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
1	Jan-17	12	-	-	-	-	-	-	-	-	-	-
2	Feb-17	11	-	-	-	-	-	-	-	-	-	-
3	Mar-17	10	-	-	-	-	-	-	-	-	-	-
4	Apr-17	9	-	-	-	-	-	-	-	-	-	-
5	May-17	8	-	-	-	-	-	-	-	-	-	-
6	Jun-17	7	-	-	-	-	-	-	-	-	-	-
7	Jul-17	6	-	-	-	-	-	-	-	-	-	-
8	Aug-17	5	-	-	-	-	-	-	-	-	-	-
9	Sep-17	4	210,921	-	-	-	-	-	-	-	-	275
10	Oct-17	3	-	-	-	-	-	-	-	-	-	550
11	Nov-17	2	2,460	-	-	-	-	-	-	-	-	553
12	Dec-17	1	-	-	-	-	-	-	-	-	-	557
13			213,381	0	0	-	0	0	0	0	0	1,935

	Actual Net Plant Additions	Rate Case 13-Month Average Net Plant Additions	Net Plant Additions Not Included in Base Rates - Jan 2017 - Dec 2017 (2)	Actual Depreciation Reserve - Retirements and Cost of Removal	Rate Case 13-Mo. Avg Depreciation Reserve - Retirements and Cost of Removal	Depreciation Reserve Not Included in Base Rates - Jan 2017 - Dec 2017 (2)
14 Rate Year GPA 387 Summary	213,381	0	213,381	0	0	0

Notes:
⁽¹⁾ Recovered through base rates in Case No. 2016-00162
⁽²⁾ AMRP spend not recovered through base rates and eligible for recovery through 2017 AMRP

Columbia Gas of Kentucky, Inc.
Annual Adjustment to the Safety Modification and Replacement Program
Calculation of O&M Savings

	FERC Account 887
	(\$)
Projected 2020 O&M Account 887 Costs	2,657,509
2017 O&M Account 887 per Case No. 2016-00162	2,886,706
Projected O&M Savings	(229,197)

Columbia Gas of Kentucky
SMRP Rider Billing Determinants by Rate Schedule
For the Twelve Months Ending December 31, 2020

Form 4.0

<u>Rate Schedule</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Total</u>
GSR - Residential	103,843	104,042	104,017	103,583	103,014	102,299	101,824	101,553	101,396	101,594	102,702	103,795	1,233,662
SVGTS - Residential	18,778	18,815	18,810	18,731	18,629	18,499	18,414	18,364	18,336	18,372	18,572	18,770	223,090
GSO - Commercial or Industrial	10,731	10,756	10,742	10,689	10,624	10,560	10,510	10,468	10,447	10,451	10,550	10,676	127,204
GDS - Commercial or Industrial	23	23	23	23	23	23	23	23	23	23	23	23	276
SVGTS - Commercial or Industrial	3,262	3,262	3,263	3,262	3,262	3,267	3,267	3,261	3,262	3,262	3,262	3,262	39,154
IUS, IUDS	2	2	2	2	2	2	2	2	2	2	2	2	24
IS, DS	67	67	67	67	67	67	67	67	67	67	67	67	804
SAS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	136,706	136,967	136,924	136,357	135,621	134,717	134,107	133,738	133,533	133,771	135,178	136,595	1,624,214