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April 20, 2018

Gwen Pinson
Executive Director
Public Service Commission
211 Sower Blvd.
Frankfort, KY 40601

Re: Atmos Energy Corporation:
Case No. 2017-00349

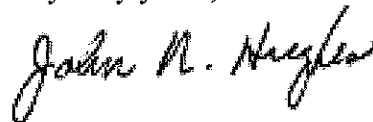
Dear Ms. Pinson:

Atmos Energy Corporation submits its response to Staff's third post-hearing request for information.

I certify that the electronic filing is a complete and accurate copy of the original documents to be filed in this matter, which will be filed within two days of this submission and that there are currently no parties in this proceeding that the Commission has excused from participation by electronic means.

If you have any questions about this matter, please contact me.

Very truly yours,



John N. Hughes

And

Mark R. Hutchinson
Wilson, Hutchinson and Littlepage
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Owensboro, KY 42301
270 926 5011
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Attorneys for Atmos Energy
Corporation

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

IN THE MATTER OF)
RATE APPLICATION OF) Case No. 2017-00349
ATMOS ENERGY CORPORATION)

AFFIDAVIT

The Affiant, Gregory W. Smith, being duly sworn, deposes and states that the attached responses to Commission Staff's third post-hearing request for information are true and correct to the best of his knowledge and belief.

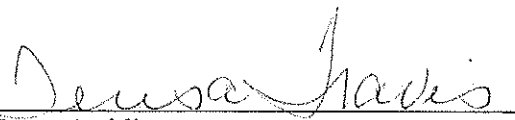


Gregory W. Smith

STATE OF Tennessee
COUNTY OF Davidson

SUBSCRIBED AND SWORN to before me by Gregory W. Smith on this the 20th day of April, 2018.





Notary Public
My Commission Expires: 5/5/20

My Commission Expires 5/5/20

Case No. 2017-00349
Atmos Energy Corporation, Kentucky Division
Staff Post-Hearing DR Set No. 3
Question No. 3-01
Page 1 of 1

REQUEST:

Refer to Atmos's responses to Commission Staff's Second Request for Information ("Staff's Second Request"), Item 18.b. Commission Staff's Post-Hearing Request for Information ("Staff's First Post-Hearing Request"), Item 3, Attachment 1, and Commission Staff's Second Post-Hearing Request for Information ("Staff's Second Post-Hearing Request"), Item 1.c. Atmos has provided inconsistent dollar amounts and program mileage for 2018. Confirm the correct dollars and mileage for 2018, and cross-reference to the other responses provided.

RESPONSE:

The Company's response to Staff's First Post-Hearing Request, Item 3 included costs per mile through 2017. It did not provide a cost per mile through 2018, as 2018 is ongoing. The Company's response to Staff's Second Post-Hearing Request, Item 1.c. states that it was providing an estimate of the approximate miles to be replaced, and program replacement cost for 2018. For 2018, the Company estimates it will replace approximately 52 miles of pipe. Please see the Company's Response to Staff's Third Post-Hearing Data Request, Item 5.

The actual numbers provided in response to Staff's First Post-Hearing Request, Item 3 are not inconsistent with the estimated year-end numbers provided in response to Staff's Second Post-Hearing Request, Item 1.c.

The Company reaffirms the numbers provided in both data responses. Please see below.

\$44,900,000 - Staff Second Request 2-18 b.: Company's filed and PSC approved budgeted 2018 PRP Spend (October 2017 to September 2018).

\$20,287,349 - Staff Post Hearing Request 1-03: Company's actual PRP spend for first 6 months of FY 2018 (October 2017 to March 2018).

\$45,181,485 - Staff Post Hearing Request 2-01: Company's forecasted PRP spend for FY 2018 (October 2017 to September 2018). This amount includes the \$20,287,349 of actual spend as of March 31, 2018. Projected variance to budget is less than 1 percent.

Respondent: Greg Smith

Case No. 2017-00349
Atmos Energy Corporation, Kentucky Division
Staff Post-Hearing DR Set No. 3
Question No. 3-02
Page 1 of 1

REQUEST:

Refer to Atmos's response to Staff's Second Post-Hearing Request, Item 2.a. The response did not include the calculation that supports the completion estimate as requested. Provide the percentage complete estimate using the following formula:

(2011-2017 PRP Actual mileage + 2018 Estimated mileage) / Total Program mileage = 42
- 45 percent.

RESPONSE:

The Company reaffirms that 230 miles of pipe were replaced between 2011 and 2017. Of that total, 120 miles represents the bare steel retired/replaced. The remaining balance represents various pipe types (i.e. epoxy, mill wrap, PE) retired/replaced within these bare steel systems. These specific details have been included in the project descriptions submitted each filing year.

The formula as requested, specific to bare steel, would be:

$$120 \text{ miles (2011-2017)} + 35 \text{ (2018)} / 345 \text{ miles} = 45\%$$

This result supports our previous response to Staff's Second Post-Hearing Request, Item 2.a.

Respondent: Greg Smith

Case No. 2017-00349
Atmos Energy Corporation, Kentucky Division
Staff Post-Hearing DR Set No. 3
Question No. 3-03
Page 1 of 2

REQUEST:

Refer to Atmos's response to Staff's Second Post-Hearing Request, Item, 2.b. The estimated total spending identified in Atmos' response to Staff's Second Request, Item 18.b. for 2018 through 2025 was an estimated \$517.8 million versus \$178.3 million actually spent between 2011 and 2017. Provide a complete, comprehensive explanation of how the 2018-2025 spending was developed and reconcile to the remaining Pipeline Replacement Program ("PRP") estimated miles to complete.

RESPONSE:

The estimate of 2018 spending is based on budgeted costs of projects specifically approved for 2018. For the years 2019–2022, the Company's five year plan was used which identifies projects that should be undertaken in the future and non-detailed projections of costs for those projects. For years 2023–2025, a generalized forecast of the need for system replacement is made together with broad projections of costs. As previously stated, detailed project estimates are only available for projects 12-18 months prior to construction.

The Company believes the confusion on this item relates to the fact that Commission Staff is asking the Company for a forecast of total PRP spending and comparing those forecasted expenses to the remaining miles of bare steel pipe.

Since, as previously stated, the Commission has held that pipe replacement programs such as the PRP are not limited to the replacement of only bare steel, to the extent that the Company plans to request replacement of additional types of pipe in the time frame for which a PRP spending forecast is requested, the Company must forecast the cost of replacing non-bare steel materials that are not part of the remaining PRP bare steel estimated miles. The Company currently has identified at-risk pipe such as early generation and un-locatable plastic which it anticipates proposing for replacement under the PRP starting in 2023.

Thus, the forecasted spending shown contemplates replacing more than just the remaining bare steel materials in Kentucky. The Company's forecasted 2019-2025 spending cannot be reconciled to just the remaining bare steel miles, as it does not directly correlate. To do such a reconciliation would dramatically overstate the costs for replacement per mile of bare steel pipe, since the forecasted costs through 2025 contemplate replacing more than just bare steel pipe.

Case No. 2017-00349
Atmos Energy Corporation, Kentucky Division
Staff Post-Hearing DR Set No. 3
Question No. 3-03
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Year	Annual PRP Investment	Estimated Avg. Replacement Cost / Mile	Miles Replaced w/in Bare Steel System	Estimated Miles of Early Generation and Un-locatable Plastic
2019 Est.	\$51,100,000	\$810,000	63	
2020 Est.	\$56,900,000	\$810,000	70	
2021 Est.	\$63,200,000	\$810,000	78	
2022 Est.	\$63,100,000	\$810,000	78	
2023 Est.	\$70,700,000	\$810,000		87
2024 Est.	\$79,200,000	\$810,000		98
2025 Est.	\$88,700,000	\$810,000		110

* Company anticipates completion of Bare Steel Replacement after year 2022

* \$810k per mile is the average cost for PRP replacement over the past 3 years

Respondent: Greg Smith

Case No. 2017-00349
Atmos Energy Corporation, Kentucky Division
Staff Post-Hearing DR Set No. 3
Question No. 3-04
Page 1 of 1

REQUEST:

Refer to Atmos's response to Staffs Second Post-Hearing Request, Item 3.a. This answer is non-responsive. Provide the project listings identified in Atmos's response to Staffs First Post-Hearing Request, Item 5, segregated by 2019 and 2020-2022, with totals for costs and mileage, as requested.

RESPONSE:

The Company has updated as Attachment 1 the previously submitted attachment for 2019 and 2020-2022 projects with totals for costs and mileage including the indirect costs. Indirect costs were estimated using FY 2018 budgeted percentages.

As was stated at the hearing in this docket as well as Staff Post-Hearing DR No. 2-02 Part B, the Company does utilize a five year plan; however, the detailed project estimates are only available for projects 12-18 months prior to construction. The Company does identify some specific long-lead projects for the remaining 4 years where significant engineering, coordination, and easement acquisition is required, but not to the budget-level detail associated with near-term projects.

ATTACHMENT:

ATTACHMENT 1 - Atmos Energy Corporation, Staff Post-Hearing_3-04_Att1 - 2018.04.19 PRP Projects.xlsx, 8 Pages.

Respondent: Greg Smith

										DIRECT COSTS	
Town	Project Title:	Overall Project Description:	Project / CB Number	Main Installed (ft):	Main Retired	Main Size:	# Services Replaced:	LP / IP / HP	Contract Labor \$	ATO Labor \$	
	PRP.2734.Cedar & High St	Replace 129' of 1.25" Bare Std., 817' of 3" Epoxy, 45' of 2" Epoxy, 132' of 4" PE, 1,078' of 4" Epoxy, 78' of 2" PE LP with 1350' of 2" PE LP. 25 Services	050.00000 - 00000	1,350		2"	25	LP/IP	\$ 21,747	\$ 35,640	
Rowletts	2735										
	PRP.2735.Hwy 31W Rowletts	Replace 2800' of 2" Bare Std., 46' of 2" PE, 371' Hot Tar, 987' of 2" Mill Wrap, 900' of 2" Epoxy with 4800' of 2" PE., with 42 Services. No Leaks	050.00000 - 00000	4,800		2"	42	IP/IP	\$ 385,440	\$ 15,840	
Cave City	2735										
Oakland	2735										
	PRP.2735.Church St	Replace 19' of 4" PE, 637' of 1.25" Bare Std., 2514' of 2" Bare Std., 1038' of 2" Epoxy, 143' of 2" Hot Tar, 25' of 2" Mill Wrap, 2110' of 1.25" Epoxy, 54' of 1.25" Hot Tar, with 1300' of 2" PE., 2700' of 4" PE., with 27 Services. No Leaks	050.00000 - 00000	4,000		2", 4"	27	IP/IP	\$ 328,200	\$ 13,200	
Munfordville/ Woodsonville	2735										
	PRP.2735.South St	Replace 35' of 2" PE, 338' of 4" Epoxy, 180' of 3" Epoxy 1,597' of 2" Epoxy 341' of 4" Mill Wrap, 98' of 1.25" Epoxy, 598' of 2" Mill Wrap., with 3,724' of 2" PE. 30 services.	050.00000 - 00000	3,724		2"	48	IP/IP	\$ 325,052	\$ 12,289	
	PRP.2735.Woodsonville Rd	Replace 477' of 2" Epoxy, 186' of 1.25" Hot Tar, 555' of 2" Mill Wrap, 127' of 1" Hot Tar, 568' of 2" PE, 386' of 4" Epoxy, 1,220' of 1.5" Bare Std., 2,238' of 1.5" Adyl PE unlocateable, 82' of 2" Adyl PE unlocateable, 298' of 1.25" Epoxy, 125' of 1.5" Epoxy, 42' of 2" Hot Tar, with 5,263' of 2" PE. Replace Woodsonville TBS and retire 1- Reg Station with 2" Distribution Tie back. 28 services.	050.00000 - 00000	5,263		2"	28	IP/IP	\$ 370,978	\$ 17,368	
Burgin	2737										
	PRP.2737.KY 33	Replace 333' of 1.25" Mill Wrap Bare Joint, 4,186', 2" Mill Wrap bare Joint, 4,007' of 4" Epoxy, 1,975' of 2" PE of which some is unlocateable, 170' of 3" Epoxy, 1,360' of 2" Epoxy. 164 Services.	050.00000 - 00000	10,295		2", 4"	164	IP/IP	\$ 742,887	\$ 33,974	
Lancaster	2737										
	PRP.2737.W.Maple Ave	Replace 28' of 6" Mill-Wrap Bare Joint, 198' of Plastic, 676' of 4" Mill Wrap-Bare Joint, 5495' of 2" Mill Wrap - Bare Joint, 9711' of 2" Epoxy with 8450' of 2" PE., 1300' of 4" PE., with 125 Services	050.00000 - 00000	9,750		2", 4"	125	IP/IP	\$ 897,325	\$ 24,131	
	PRP.2737.Cowden Ct	Replace 4,745' of Bare 2" Std. with 4,745' of 2" PE	050.00000 - 00000	4,745		2"	92	IP/IP	\$ 342,399	\$ 15,659	
Danville	2737										
	PRP.2737.Hwy150	Replace 4,750' 4" Bare Std., IP with 6" PE IP & 1,525' 2" Bare IP Std. With 2" PE IP. Allen Asphalt on the 4" line new 6" PE will eliminate pressure issues.	050.00000 - 00000	6,275		2", 6"	40	IP/IP	\$ 485,529	\$ 20,708	
Burgin	2737										
	PRP.2737.Burgin HPD -Shakertown	Replace 10,000' 2" bare with 4" steel; replace 28,000 3" bare with 6" PE	050.00000 - 0000	38,000		4", 6"		HPD/IP	\$ 2,210,218	\$ 4,148	
Campbellsville	2738										
	PRP.2738.Robinson Ave	Replace 8335' of Bare Std. LP with 7735' of 2" & 600' 4" PE IP retire 3-LP Stations	050.00000 - 00000	8,335		2", 4"	107	LP/IP	\$ 665,803	\$ 27,506	
	PRP.2738.Baptist St	Replace 4,345' of 2" Epoxy, 277' of 4" Bare Std., 663' of 4" PE, 140' of 2" Bare Std. 34' of 4" Epoxy LP with 5,442' of 2" PE IP. retire 2-LP Reg Stations, 43 Services	050.00000 - 00000	5,442		2"	43	LP/IP	\$ 447,805	\$ 17,959	
	PRP.2738.Springfield Calvary	Replace 16 miles of 4" bare with 6" steel - carried from F18	050.44145 - 43698	52,800		6"		HPD	\$ 5,014,620		
									\$ 34,187,818	\$ 1,039,011	

INDIRECT COSTS

Town	Project Title:	Material \$	Labor OH \$	Stores OH \$	SSU OH \$	BU OH \$	State OH \$	Grand Total
Madisonville	2634							
	PRP.2634.Grapevine Rd	\$ 21,940	\$ 11,372	\$ 1,975	\$ 16,631	\$ 18,007	\$ 23,542	\$ 339,193
	PRP.2634.Princeton Rd	\$ 26,856	\$ 37,783	\$ 2,417	\$ 52,224	\$ 56,547	\$ 73,926	\$ 1,066,165
	PRP.2634.Lunsford St	\$ 2,610	\$ 6,241	\$ 235	\$ 1,485	\$ 1,607	\$ 2,101	\$ 32,883
Hanson	2634							
	PRP.2634.Hanson-Sunset Rd.	\$ 4,267	\$ 6,004	\$ 384	\$ 8,299	\$ 8,986	\$ 11,748	\$ 169,427
Robards	2634							
	PRP.2634.Robards	\$ 18,920	\$ 26,620	\$ 1,703	\$ 36,793	\$ 39,839	\$ 52,083	\$ 751,152
Slaughters	2634							
	PRP.2634.Slaughters	\$ 24,568	\$ 34,566	\$ 2,211	\$ 47,776	\$ 51,731	\$ 67,631	\$ 975,374
Princeton	2635							
	PRP.2635.Princeton South Jefferson	\$ 18,102	\$ 13,582	\$ 1,629	\$ 30,375	\$ 32,889	\$ 42,997	\$ 615,926
	PRP.2635.Princeton Southwest	\$ 12,724	\$ 17,902	\$ 1,145	\$ 26,694	\$ 28,903	\$ 37,786	\$ 544,257
	PRP.2635.Princeton West	\$ 20,734	\$ 23,497	\$ 1,866	\$ 39,254	\$ 42,504	\$ 55,567	\$ 798,942
	PRP.2635.Princeton North	\$ 35,093	\$ 30,268	\$ 3,158	\$ 46,002	\$ 49,810	\$ 65,119	\$ 937,646
	PRP.2635.Princeton East	\$ 14,671	\$ 18,506	\$ 1,320	\$ 32,110	\$ 34,768	\$ 45,453	\$ 653,175
	PRP.2635.Whipporwill	\$ 9,525	\$ 13,400	\$ 857	\$ 18,522	\$ 20,055	\$ 26,219	\$ 378,135
Owensboro	2636							
	PRP.2636.14th St	\$ 50,782	\$ 24,321	\$ 4,570	\$ 36,857	\$ 39,908	\$ 52,174	\$ 751,282
	PRP.2636.Carter - Bosley Rd	\$ 67,300	\$ 38,610	\$ 6,057	\$ 55,989	\$ 60,624	\$ 79,257	\$ 1,142,098
	PRP.2636.Ford & Robin Rd	\$ 17,742	\$ 11,386	\$ 1,597	\$ 16,761	\$ 18,149	\$ 23,726	\$ 341,813
	PRP.2636.Glenn Ct	\$ 14,623	\$ 12,368	\$ 1,316	\$ 17,480	\$ 18,927	\$ 24,744	\$ 356,717
	PRP.2636.Eastwood Dr	\$ 17,136	\$ 17,062	\$ 1,542	\$ 23,913	\$ 25,892	\$ 33,850	\$ 488,072
	PRP.2636.W 6th & Crabtree	\$ 2,158	\$ 7,150	\$ 194	\$ 1,998	\$ 2,163	\$ 2,828	\$ 43,624
	PRP.2636.Plum Street	\$ 1,671	\$ 5,200	\$ 150	\$ 1,452	\$ 1,572	\$ 2,055	\$ 31,705
	PRP.2636.Davies Dr (Hawesville)	\$ 6,120	\$ 3,900	\$ 551	\$ 1,212	\$ 1,312	\$ 1,716	\$ 26,250
Hopkinsville	2736							

INDIRECT COSTS

Town	Project Title:	Material \$	Labor OH \$	Stores OH \$	SSU OH \$	BU OH \$	State OH \$	Grand Total
	PRP.2736.Central Ave	\$ 24,325	\$ 24,335	\$ 2,189	\$ 34,097	\$ 36,920	\$ 48,266	\$ 695,935
	PRP.2736.East 19th St	\$ 25,197	\$ 28,207	\$ 2,268	\$ 33,286	\$ 36,042	\$ 47,119	\$ 681,604
	PRP.2736.Phelps Ave	\$ 27,849	\$ 26,682	\$ 2,506	\$ 37,464	\$ 40,566	\$ 53,033	\$ 764,639
Paducah	2637							
	PRP.2637.Clark St Phase 1	\$ 35,479	\$ 21,777	\$ 3,193	\$ 34,142	\$ 36,968	\$ 48,330	\$ 695,558
	PRP.2637.Mississippi-Georgia	\$ 29,472	\$ 19,545	\$ 2,652	\$ 37,928	\$ 41,068	\$ 53,690	\$ 770,381
	PRP.2637.North 26th St	\$ 46,981	\$ 40,310	\$ 4,228	\$ 61,966	\$ 67,096	\$ 87,717	\$ 1,262,810
	PRP.2637.Ohio Street	\$ 19,418	\$ 14,233	\$ 1,748	\$ 23,360	\$ 25,294	\$ 33,068	\$ 475,574
Russellville	2734							
	PRP.2734.West Russellville HPD	\$ 713,194	\$ 21,339	\$ 64,187	\$ 233,993	\$ 253,363	\$ 331,232	\$ 4,703,283
Bowling Green	2734							
	PRP.2734.Schweizer Rd	\$ 952,392	\$ 20,483	\$ 85,715	\$ 324,354	\$ 351,204	\$ 459,143	\$ 6,513,013
	PRP.2734.Boatlanding Rd.	\$ 3,080	\$ 4,333	\$ 277	\$ 11,004	\$ 11,915	\$ 15,577	\$ 222,847
	PRP.2734.Jackson & Pearl St	\$ 44,550	\$ 12,187	\$ 4,010	\$ 23,966	\$ 25,950	\$ 33,926	\$ 486,714
	PRP.2734.Morgantown Rd & S Sunrise	\$ 11,184	\$ 15,735	\$ 1,007	\$ 29,316	\$ 31,743	\$ 41,499	\$ 595,771
	PRP.2734.Nutwood & 10th	\$ 9,240	\$ 13,000	\$ 832	\$ 36,670	\$ 39,706	\$ 51,909	\$ 741,892
	PRP.2734.Glen Lilly & N Sunrise	\$ 15,042	\$ 21,163	\$ 1,354	\$ 37,676	\$ 40,795	\$ 53,333	\$ 766,136
	PRP.2734.WKU Normal Dr - Dogwood Dr.	\$ 17,820	\$ 4,875	\$ 1,604	\$ 15,911	\$ 17,228	\$ 22,523	\$ 321,521
	PRP.2734.Holly Dr.	\$ 250	\$ 1,300	\$ 23	\$ 152	\$ 164	\$ 214	\$ 3,686
	PRP.2734.Church Ave	\$ 3,658	\$ 7,800	\$ 329	\$ 2,323	\$ 2,515	\$ 3,289	\$ 50,478
	PRP.2734.Centerline phase III		\$ -	\$ -	\$ 60,400	\$ 65,400	\$ 85,500	\$ 1,211,300
Franklin	2734							

INDIRECT COSTS

Town	Project Title:	Material \$	Labor OH \$	Stores OH \$	SSU OH \$	BU OH \$	State OH \$	Grand Total
	PRP.2734.Cedar & High St	\$ 2,600	\$ 29,250	\$ 234	\$ 4,523	\$ 4,898	\$ 6,403	\$ 105,294
Rowletts	2735							
	PRP.2735.Hvvy 31W Rowletts	\$ 36,240	\$ 13,000	\$ 3,262	\$ 27,017	\$ 29,253	\$ 38,244	\$ 548,296
Cave City	2735							
Oakland	2735							
	PRP.2735.Church St.	\$ 19,450	\$ 10,833	\$ 1,751	\$ 22,229	\$ 24,069	\$ 31,467	\$ 451,199
Munfordville/ Woodsonville	2735							
	PRP.2735.South St	\$ 7,169	\$ 10,086	\$ 645	\$ 21,153	\$ 22,904	\$ 29,943	\$ 429,241
	PRP.2735.Woodsonville Rd	\$ 42,131	\$ 14,254	\$ 3,792	\$ 26,662	\$ 28,869	\$ 37,741	\$ 541,794
Burgin	2737							
	PRP.2737.KY 33	\$ 33,348	\$ 27,882	\$ 3,001	\$ 49,962	\$ 54,098	\$ 70,725	\$ 1,015,878
Lancaster	2737							
	PRP.2737.W.Maple Ave	\$ 23,059	\$ 19,804	\$ 2,075	\$ 57,774	\$ 62,556	\$ 81,782	\$ 1,168,507
	PRP.2737.Cowden Ct	\$ 9,134	\$ 12,851	\$ 822	\$ 22,617	\$ 24,490	\$ 32,016	\$ 459,988
Danville	2737							
	PRP.2737.Hvvy150	\$ 49,960	\$ 16,995	\$ 4,496	\$ 34,381	\$ 37,227	\$ 48,668	\$ 697,964
Burgin	2737							
	PRP.2737.Burgin HPD -Shakertown	\$ 870,794	\$ 3,404	\$ 78,371	\$ 191,180	\$ 207,007	\$ 270,628	\$ 3,835,751
Campbellsville	2738							
	PRP.2738.Robinson Ave	\$ 18,025	\$ 22,574	\$ 1,622	\$ 43,746	\$ 47,368	\$ 61,926	\$ 888,570
	PRP.2738.Baptist St	\$ 10,476	\$ 14,739	\$ 943	\$ 29,268	\$ 31,691	\$ 41,431	\$ 594,312
	PRP.2738.Springfield Calvary	\$ -	\$ -	\$ -	\$ 302,883	\$ 327,956	\$ 428,750	\$ 6,074,209
		\$ 3,489,059	\$ 852,716	\$ 314,015	\$ 2,383,230	\$ 2,580,518	\$ 3,373,613	\$ 48,219,980

FY 2020 - 2022 KY PRP Project Identification		DIRECT COSTS								
Town	Cost Center	Description	Replacement Footage	Main Size:	# Services	LP / IP / HP	Contract Labor	ATO Labor	Material S	Labor OH S
Hopkinsville	2736									
	PRP.2736.N.19th & S. Main	Replace 306' of 4" N/A Plastic, 360' of 2" Bare Stl., 1285' of 2" Epoxy, 1322' of 4" Bare Stl., 1304' of 6" Bare Stl., 452' of 2" Plastic, 18' of 6" Epoxy, 1722' of 4" Epoxy, with 4045' of 2" PE., 2345' of 4" PE., with 95 Services	6,390	2", 4"	95	IP/IP	\$ 338,492	\$ 15,815	\$ 20,039	\$ 12,979
Paducah	2637									
	PRP.2637.Paducah Lateral Replacement	Install 62,900' 12" steel to replace 6" bare steel from Texas Gas Purchase to Meachem Lane; downrate 8" existing 1955 transmission line to distribution; Magnolia River design, land, material only for 2020					\$ 4,000,000			\$ -
	PRP.2637.Paducah Lateral Replacement	Install 62,900' 12" steel to replace 6" bare steel from Texas Gas Purchase to Meachem Lane; downrate 8" existing 1955 transmission line to distribution; Magnolia River turnkey; construction for 2021, 2022	11,650			HPD	\$ 5,000,000			\$ -
Storage	2609									
	PRP.2609.Fruithill to Elkton replacement	Install 14 miles 12" steel from Fruithill to Elkton, to replace 10" bare steel; rebuild purchase station; Magnolia River turnkey project -- design, material, land for 2022				HPD	\$ 7,000,000			\$ -
	PRP.2609.Fruithill to Elkton replacement	Install 14 miles 12" steel from Fruithill to Elkton, to replace 10" bare steel; rebuild purchase station; Magnolia River turnkey project -- construction for 2023	73,920			HPD	\$ 33,000,000			\$ -
Bowling Green	2734									
	PRP.2734.Centerline phase III	Phase II from F19: Install 22,750' 8" steel to retire 1930 and 1938 Texas Gas lines; Magnolia River turnkey - construction 2020	22,750			HPD	\$ 9,000,000			\$ -
Russellville	2734									
	Russellville. 9th. St.	Replace 2000' of 2" bare and 5000' of 4" bare with PE	7,000	2",4"	71		\$ 447,830	\$ 17,325	\$ 29,975	\$ 14,219
Owensboro	2636									
	PRP.2634.Old Hartford Rd Replacement	Replace one mile 8" bare steel along Old Hartford Road	5,280			HPD	\$ 2,500,000			\$ -
Harrodsburg	2737									
	PRP.2737.Harrodsburg Lateral Replacement	Install 52,800' 12" steel from Tennessee Gas Pipeline to Harrodsburg, to replace 6" bare steel; Magnolia River design, land, material only for 2020					\$ 3,000,000			\$ -
	PRP.2737.Harrodsburg Lateral Replacement	Install 52,800' 12" steel from Tennessee Gas Pipeline to Harrodsburg, to replace 6" bare steel; Magnolia River turnkey - construction 2021, 2022	26,400				\$ 11,500,000			\$ -
	PRP.2737.Harrodsburg Lateral Replacement	Install 52,800' 12" steel from Tennessee Gas Pipeline to Harrodsburg, to replace 6" bare steel; Magnolia River turnkey - construction 2021, 2022	26,400			HPD	\$ 11,500,000			\$ -
Lancaster	2737									
Project 1:	PRP.2737.KY 52-Darville St	Replace 2749' of 6" Mill Wrap - Bare Joint, 946' of 4" Mill Wrap - Bare Joint, 21' of 4" Epoxy, 329' of 2" Mill Wrap - Bare Joint, with 510' of 2" PE., 2125' of 4" PE., 4050' of 6" PE., with 125 Services	6,685	2", 4", 6"	125	IP/IP	\$ 545,496	\$ 16,545	\$ 52,180	\$ 13,578
	PRP.2737.Campbell St	Replace 104' of 1.25 Epoxy, 215' of 1.25 Bare Stl., 7151' of 2" Mill Wrap - Bare Joint, 192' of 2" Bare Stl., 751' of 2" Epoxy, 746' of 4" Mill Wrap - Bare joint, 43' of Plastic, 97' of 4" Epoxy, with 6745' of 2" PE., 825' of 4" PE., with 112 Services	7,570	2", 4"	112	IP/IP	\$ 828,751	\$ 18,736	\$ 17,295	\$ 15,377
	PRP.2737.Lancaster to Stanford bare replacement	Install 11 miles 6" steel from Lancaster to Stanford, to replace 4" bare steel; rebuild purchase station; Magnolia River turnkey project -- design, material, land for 2022				HPD	\$ 3,000,000			\$ -
	PRP.2737.Lancaster to Stanford bare replacement	Install 11 miles 6" steel from Lancaster to Stanford, to replace 4" bare steel; rebuild purchase station; Magnolia River turnkey project -- construction for 2023	58,080			HPD	\$ 22,000,000			\$ -
							\$ 113,660,569	\$ 68,421	\$ 119,489	\$ 56,153
							252,125			

FY 2020 - 2022 KY PRP Project Identification		INDIRECT COSTS					
Town	Cost Center	Description	Stores OH \$	SSU OH \$	BU OH \$	State OH \$	Grand Total
Hopkinsville	2736						
	PRP.2736.N.19th & S. Main	Replace 306' of 4" N/A Plastic, 360' of 2" Bare Std., 1285' of 2" Epoxy, 1322' of 4" Bare Std., 1304' of 6" Bare Std., 452' of 2" Plastic, 18' of 6" Epoxy, 1722' of 4" Epoxy, with 4045' of 2" PE., 2345' of 4" PE., with 95 Services	\$ 1,804	\$ 23,113	\$ 25,026	\$ 32,717	\$ 469,984
Paducah	2637						
	PRP.2637.Paducah Lateral Replacement	Install 62,900' 12" steel to replace 6" bare steel from Texas Gas Purchase to Meachem Lane; downrate 8" existing 1955 transmission line to distribution; Magnolia River design, land, material only for 2020	\$ -	\$ 241,600	\$ 261,600	\$ 342,000	\$ 4,845,200
	PRP.2637.Paducah Lateral Replacement	Install 62,900' 12" steel to replace 6" bare steel from Texas Gas Purchase to Meachem Lane; downrate 8" existing 1955 transmission line to distribution; Magnolia River turnkey; construction for 2021, 2022	\$ -	\$ 302,000	\$ 327,000	\$ 427,500	\$ 6,056,500
Storage	2609						
	PRP.2609.Fruithill to Elkton replacement	Install 14 miles 12" steel from Fruithill to Elkton, to replace 10" bare steel; rebuild purchase station; Magnolia River turnkey project -- design, material, land for 2022	\$ -	\$ 422,800	\$ 457,800	\$ 598,500	\$ 8,479,100
	PRP.2609.Fruithill to Elkton replacement	Install 14 miles 12" steel from Fruithill to Elkton, to replace 10" bare steel; rebuild purchase station; Magnolia River turnkey project -- construction for 2023	\$ -	\$ 1,993,200	\$ 2,158,200	\$ 2,821,500	\$ 39,972,900
Bowling Green	2734						
	PRP.2734.Centerline phase III	Phase II from F19: Install 22,750' 8" steel to retire 1930 and 1938 Texas Gas lines; Magnolia River turnkey - construction 2020	\$ -	\$ 543,600	\$ 588,600	\$ 769,500	\$ 10,901,700
Russellville	2734						
	Russellville, 9th. St.	Replace 2000' of 2" bare and 5000' of 4" bare with PE	\$ 2,698	\$ 30,499	\$ 33,024	\$ 43,174	\$ 618,744
Owensboro	2636						
	PRP.2634.Old Hartford Rd Replacement	Replace one mile 8" bare steel along Old Hartford Road	\$ -	\$ 151,000	\$ 163,500	\$ 213,750	\$ 3,028,250
Harrodsburg	2737						
	PRP.2737.Harrodsburg Lateral Replacement	Install 52,800' 12" steel from Tennessee Gas Pipeline to Harrodsburg, to replace 6" bare steel; Magnolia River design, land, material only for 2020	\$ -	\$ 181,200	\$ 196,200	\$ 256,500	\$ 3,633,900
	PRP.2737.Harrodsburg Lateral Replacement	Install 52,800' 12" steel from Tennessee Gas Pipeline to Harrodsburg, to replace 6" bare steel; Magnolia River turnkey - construction 2021, 2022	\$ -	\$ 694,600	\$ 752,100	\$ 983,250	\$ 13,929,950
	PRP.2737.Harrodsburg Lateral Replacement	Install 52,800' 12" steel from Tennessee Gas Pipeline to Harrodsburg, to replace 6" bare steel; Magnolia River turnkey - construction 2021, 2022	\$ -	\$ 694,600	\$ 752,100	\$ 983,250	\$ 13,929,950
Lancaster	2737						
Project 1:	PRP.2737.KY 52-Danville St	Replace 2749' of 6" Mill Wrap - Bare Joint, 946' of 4" Mill Wrap - Bare Joint, 21' of 4" Epoxy, 329' of 2" Mill Wrap - Bare Joint, with 510' of 2" PE., 2125' of 4" PE., 4050' of 6" PE., with 125 Services	\$ 4,696	\$ 37,794	\$ 40,922	\$ 53,500	\$ 764,711
	PRP.2737.Campbell St	Replace 104' of 1.25 Epoxy, 215' of 1.25 Bare Std., 7151' of 2" Mill Wrap - Bare Joint, 192' of 2" Bare Std., 751' of 2" Epoxy, 746' of 4" Mill Wrap - Bare joint, 43' of Plastic, 97' of 4" Epoxy, with 6745' of 2" PE., 825' of 4" PE., with 112 Services	\$ 1,557	\$ 52,793	\$ 57,163	\$ 74,731	\$ 1,066,402
	PRP.2737.Lancaster to Stanford bare replacement	Install 11 miles 6" steel from Lancaster to Stanford, to replace 4" bare steel; rebuild purchase station; Magnolia River turnkey project -- design, material, land for 2022	\$ -	\$ 181,200	\$ 196,200	\$ 256,500	\$ 3,633,900
	PRP.2737.Lancaster to Stanford bare replacement	Install 11 miles 6" steel from Lancaster to Stanford, to replace 4" bare steel; rebuild purchase station; Magnolia River turnkey project -- construction for 2023	\$ -	\$ 1,328,800	\$ 1,438,800	\$ 1,881,000	\$ 26,648,600
			\$ 10,754	\$ 6,878,798	\$ 7,448,235	\$ 9,737,372	\$ 137,979,791

Case No. 2017-00349
Atmos Energy Corporation, Kentucky Division
Staff Post-Hearing DR Set No. 3
Question No. 3-05
Page 1 of 1

REQUEST:

Refer to Atmos's response to Staff's Second Post-Hearing Request, Item, 3.b. The project listing provided does not include a total mileage amount nor does the sum of the dollar totals correlate to the \$45.181 million total PRP spending for 2018 that was provided in Atmos's response to Staff's Second Post-Hearing Request, Item 1.c. Provide 2018 total mileage that corresponds to the projects listed and confirms the correct spending for the 2018 PRP program.

RESPONSE:

The Company, in response to Staff Second Post Hearing Request 2-03 part b., provided the filed/approved list of budgeted 2018 PRP projects. This project list totaled \$44.9M (As shown in cells D196; E196; F196; G196; & H196). The length of replacement for each project was listed in the project description of each project, and the Company has provided an updated attachment, Attachment 1, individually listing the replacement footage of each project in a separate column (See Excel Column C for replacement footage; please note that two projects which begin in 2018 will carry over into 2019 which is when the majority of that mileage will be replaced; the project list totaling \$44.9M in this attachment is now shown in cells E196; F196; G196; H196 and I196). As stated in Staff's Second Post Hearing Request 2-01 part c, the Company estimates it will now replace 52 miles at a total cost of \$45.2M, representing a less than 1% variance from budget.

In summary, our current forecast for 2018 is the \$45.2M and 52 miles of replacement.

ATTACHMENT:

ATTACHMENT 1 - Atmos Energy Corporation, Staff Post-Hearing_3-05_Att1 - 2018 KY PRP Project Details.xlsx, 4 Pages.

Respondent: Greg Smith

ATMOS ENERGY CORPORATION
 KENTUCKY PIPE REPLACEMENT PROGRAM
 SURCHARGE CALCULATION OF FORECASTED ACTIVITY

2018 PROJECT DETAILS

Projects	Project Description	Retired Footage (ft)	No. of services	Installation			Cost of Removal			Retirements		
				Main	Services	Meters	Main	Services	Meters	Main	Services	Meters
PRP.2635.Baldwin St CC	Replace 1,031' of 2" Bare IP Main with 1,378' of 2" PE IP on Baldwin St. from Leach St., to 2" PE near Egan St. Contractor Material Overhead	1,031	-	62,509	-	-	-	\$3,139	-	-	-	
PRP.2635.Darby St CC	Replace 280' of 2" Bare IP Main with 2" PE IP on Darby St. 4 Services Contractor Material Overhead	280	4	21,667	5,264	748	-	\$1,031	278	-	-	
PRP.2635.Marion.Fredonia.FY17	Replace approximately 47,686' of 4" Bare HPD SH with 6" SH HPD. Contractor Material Overhead	47,686	-	10,379,307	-	-	-	\$521,797	-	-	-	
PRP.2635.North Franklin St CC	Replace 440' of 2" Bare IP Main with 475' of 2" PE IP on North Franklin. 9 services Contractor Material Overhead	440	9	25,054	11,889	1,683	990	\$1,208	626	-	-	
PRP.2636.Allen St	Replace 148' of 1.25" Epoxy, 690' of 2" Hot Tar, 108' of 2" Epoxy, 117' of 3" Epoxy, 305' of 3" Hot Tar, 1,365' of 4" Epoxy, 3,275' of 4" Bare STL, 319' of 4" N/A Plastic. Install 3,550' of 2" PE., and 4,225' of 4" PE.; 129 Services. Contractor Material Overhead	6,325	129	543,936	170,406	24,123	14,190	\$27,306	8,969	-	-	
PRP.2636.East 3rd St	Retire 78' of 6" Hot Tar, 506' of 4" Epoxy, 2,197' of 8" Hot Tar, 412' of 2" Epoxy, 730' of 4" Bare, 249' of 3" Hot Tar, 33' of 2" Hot Tar, 1,234' of 4" Hot Tar, and 101' of 1.25" PE IP. Install 2,551' of 2" PE and 3,214' of 6" PE. Contractor Material Overhead	5,598	43	440,215	56,802	8,841	4,730	\$19,884	2,990	-	-	
PRP.2636.East 4th St	Replace 310' of 2" Epoxy, 362' of 2" Hot Tar, 4' of 3" Epoxy, 631' of 4" Hot Tar, 195' of 4" Plastic, 1,547' of 6" Hot Tar. Install 1,760' of 2" PE., and 1,330' of 4" PE.; 41 Services Contractor Material Overhead	3,049	41	223,571	54,160	7,667	4,510	\$11,201	2,851	-	-	
PRP.2636.East 7th St	Replace 359' of 3" Epoxy, 1,129' of 4" Bare STL, 365' of 4" Mill Wrap, 1,274' of 6" Epoxy, 768' of 6" Mill Wrap, 838' of 6" Hot Tar, 673' of 6" Mill Wrap - Bare Joint, with 1,915' of 2" PE., 3,334' of 4" PE. I.P. - I.P.; 95 Services. Contractor Material Overhead	5,406	95	374,738	125,493	17,765	10,450	\$18,622	6,605	-	-	
PRP.2636.HWY 231 CC	Replace 1,074' of Bare 2" IP STL with 1,074' of 4" PE IP Contractor Material Overhead	1,074	5	31,109	6,603	935	550	\$1,221	348	-	-	
PRP.2636.Lewis Ln - Maple Ave	Replace 865' of Bare 6" SH, 418' of 2" Mill Wrap, 1,283' of 6" Mill Wrap Bare Joint, 3,075' of 2" Mill Wrap bare Joint, 239' of 1.25" Epoxy, 2,480' of 2" Hot Tar, 5,575' of 2" Epoxy, 59' of 6" PE, 144' of 2" PE, 404' of 4" Mill Wrap, 2,162' of 8" Hot Tar, 31' of 6" Epoxy, 830' of 4" Epoxy, 1,611' of 2" Bare STL, 432' of 4" Bare STL. Install 14,226' of 2" PE, 247' of 4" PE and 4,800' of 6" PE; 357 Services Contractor Material Overhead	19,602	357	1,329,889	471,588	66,739	39,270	\$64,016	24,820	-	-	
PRP.2636.Mill St.CC	Replace 1,978' of 2" Epoxy STL, with 3,700' of 2" PE on Mill St.; 10 Services Contractor Material Overhead	1,978	10	72,322	13,210	1,870	1,100	\$3,280	695	-	-	
PRP.2636.W. Front St Cloverport CC	Replace 263' of Bare 2" IP with 263' of 2" PE IP; 5 Services Contractor Material Overhead	263	5	13,558	6,605	935	550	\$635	348	-	-	
PRP.2637.Clark St Phase 1	Replace 200' of 2" Plastic, 1,270' of 2" Epoxy, 852' of 2" Bare STL, 349' of 3" Epoxy, 1,486' of 4" Epoxy, 27' of 4" PE, 252' of 4" Bare STL, 18' of 4" Fusion Bond Epoxy, 1,640' of 6" Bare STL, 13' of 6" PE. Install 1,630' of 2" PE., 1,795' of 4" PE., and 2,380' of 6" PE. 80 Services Contractor Material Overhead	6,107	80	475,672	105,678	14,960	8,800	\$21,857	5,562	-	-	
PRP.2637.Clark St Phase 2	Replace 607' of 1.25" PE, 649' of 2" Epoxy STL, 407' of 3" Epoxy STL, 285' of 6" Epoxy STL, and 2,015' of 6" Bare SH. Install 1,674' of 2" PE., 920' of 4" PE., and 2,310' of 6" PE.; 78 Services Contractor Material Overhead	5,943	78	384,318	103,636	14,586	8,580	\$18,463	5,423	-	-	
PRP.2637.Forrest Hills 2	Replace 122' of 3" Bare STL, 1,678' of 4" Bare STL, 1,863' of 6" Bare STL, 15' of 6" HDPE. Install 3,500' of 2" PE., 1,730' of 4" PE., and 1,900' of 6" PE. Contractor Material Overhead	3,678	110	585,050	145,307	20,570	12,100	\$26,844	7,648	-	-	

PRP.2637.Georgia-Cornell	Replace 2,351' of 2" Bare Stl., 344' of 2" Epoxy, 345' of 4" Bare Stl., 4' of 2" PE, 385' of 4" Bare Stl., 359' of 6" Bare Stl., 530' of 6" Epoxy. Install 3,415' of 2" PE, 419' of 4" PE, and 883' of 6" PE; 100 Services	4,318	100	351,276	Contractor Material Overhead	132,095 18,700 30,536	11,000 2,228	\$17,760 6,953 1,408
PRP.2637.Mississippi-Georgia	Replace 3,664' of 2" Bare Stl., 34' of 2" Epoxy Stl., 262' of 2" Plastic, 746' of 4" Bare Stl. and 40' of 4" Epoxy Stl. Install 4,140' of 2" PE, and 765' of 4" PE. 115 Services	4,746	115	369,061	Contractor Material Overhead	151,912 21,503 35,117	12,650 2,562	\$18,540 7,995 1,619
PRP.2637.Trimble Hill 8 Inch	Replace 62 feet of 8" Epoxy, 426 feet of 2" Mill Wrap, 15 feet of 6" PE, 3,559 feet of 8" Bare Stl., 1,949 feet of 6" Bare Stl., 309 feet of 2" PE, 481 feet of 2" Epoxy, 74 feet of 6" Epoxy. Install 855 feet of 2" PE, 80 feet of 4" PE and 5,635 feet of 6" PE; 30 Services	6,875	30	663,533	Contractor Material Overhead	39,629 5,610 9,161	3,360 668	\$30,147 2,086 422
PRP.2734.Adams St & W 14th	Replace 31' of 2" PE, 325' of 8" Epoxy, 504' of 4" Epoxy, 1,798' of 4" Bare Stl., 450' of 6" Bare Stl. Install 2,650' of 2" PE. 28 Services	3,088	28	316,758	Contractor Material Overhead	36,987 5,236 8,550	3,680 624	\$16,159 1,947 394
PRP.2734.CC.Mimosa Alley	Replace 888' of 2" Bare IP steel with 900' of 2" PE IP; Remove 1-IP Regulator Station. 7 Services.	888	7	117,739	Contractor Material Overhead	9,247 1,309 2,138	770 156	\$5,744 487 90
PRP.2734.Cherry St CC	Replace 3' of 2" Epoxy, 967' of 4" Epoxy with 950' of 2" PE. 12 Services	970	12	35,695	Contractor Material Overhead	15,852 2,244 3,664	1,320 267	\$1,771 834 169
PRP.2734.Church & Veterans St	Replace 640' of 2" Bare Stl., 520' of 2" Epoxy, 2' of Plastic, 481' of 4" Epoxy, 718' of 4" Bare Stl., 210' of 6" Epoxy, and 1,568' of 10". Install 3,820' of 2" PE. 47 Services	4,157	47	385,444	Contractor Material Overhead	62,086 8,789 14,352	5,170 1,047	\$19,942 3,268 662
PRP.2734.East 10th & 31W	Replace 11.1' of 2" Epoxy, 237' of 4" Epoxy, 738' of plastic, 3,024' of 4" Bare Stl., and 583' of 4" PE. Install 4,470' of 2" PE. 1.P.; 77 Services	3,955	77	538,167	Contractor Material Overhead	101,715 14,399 21,513	8,470 1,715	\$26,767 5,353 1,034
PRP.2734.East 9th & S Main	Replace 41' of 1" Epoxy, 2,857' of 2" Bare Stl., 83' of 2" Epoxy and 64' of 2" PE. Install 2,170' of 2" PE; 24 Services	3,025	24	326,919	Contractor Material Overhead	31,703 4,488 7,329	2,640 335	\$17,279 1,669 338
PRP.2734.Mcfwain Ct CC	Replace 79' of 1.25" Epoxy, 140' of 2" Epoxy and 762' of 2" Bare Stl. IP with 591' of 2" PE IP. 20 Services	981	20	33,364	Contractor Material Overhead	26,420 3,740 6,107	2,200 446	\$1,702 1,391 282
PRP.2734.Schweizer Rd.	Project will consist of the replacement of 4.7 miles of Bare Stl. with new 6" High Pressure distribution. Fiscal Year 2018 portion will be for the acquisition of Right-Of-Way only.	-	-	324,753	Contractor Material Overhead	- - -	- -	- - -
PRP.2734.Scotland Ave & Washington St CC	Franklin, KY. Replace 951' of 3" Bare Stl. with 950' of 2" PE., with 12 Services	951	12	37,271	Contractor Material Overhead	15,852 2,244 3,664	1,320 267	\$1,771 834 169
PRP.2734.State St & E Main	Replace 13 feet of 2" PE, 578 feet of 2" Epoxy, 341 feet of 4" Bare Stl., 630 feet of 4" Epoxy, 774 feet of 6" Bare Stl., 400 feet 6" Epoxy. Install 2,220 feet of 2" PE IP. 30 Services	2,736	30	355,339	Contractor Material Overhead	39,629 5,610 9,161	3,360 668	\$17,793 2,086 422

PRP.2734.W Kentucky Ave CC	Replace 180' of 2" PE, 1,642' of 3" Bare Stl., 201' of 4" Plastic, with 1,370' of 2" PE; 21 Services	2,023	21	68,940		\$3,471	
	Contractor				27,749		1,460
	Material				3,927	2,310	
	Overhead				6,413	468	296
PRP.2734.West 10th & Payne	Replace 602' of 2" Epoxy, 371' of 2" Plastic, 687' of 3" Bare Stl., 1,348' of 3" Epoxy, 1,537' of 4" Bare Stl., 687' of 4" Epoxy, 61' of 4" Plastic, and 16' of Unknown. Install 4,440' of 2" PE.	5,293	77	526,184		\$26,309	
	Contractor				101,715		5,353
	Material				14,399	8,470	
	Overhead				23,513	1,713	1,684
PRP.2735.6th-Main St - SG	Replace 359' of 2" P.E., 2,932' of 4" Bare Stl., 84' of 2" Hot Tar, 92' of .75" of Epoxy Stl., 357' of 4" Hot Tar, 145' of 4" Epoxy, 420' of 2" Epoxy, 1,088' of 2" Bare Stl., 41' of 3" Bare Stl., 348' of 2" Mill Wrap, 6' of 2" Unknown Stl. Install 2,250' of 2" PE & 2,200' of 4" PE IP. 44 Services	5,822	44	438,600		\$21,057	
	Contractor				58,123		3,059
	Material				8,278	4,840	
	Overhead				13,436	980	619
PRP.2735.S.Main-Lawson - SG	Replace 134' of 2" Hot Tar, 111' of 1.25" Bare Stl., 2,590' of 4" PE, 2,698' of 4" Epoxy Stl., 34' of 3" Epoxy Stl., 187' of 2" PE, 346' of 2" Epoxy Stl., 3,509' of 3" Bare Stl., 708' of 2" Bare Stl., 381' of 2" Mill Wrap, and 701' of 4" Bare Stl. Install 5,700' of 2" PE and 4,150' of 4" PE IP. 104 Services	11,399	104	955,714		\$48,891	
	Contractor				137,301		7,231
	Material				19,448	11,440	
	Overhead				31,758	2,317	1,464
PRP.2736.Central Ave	Replace 295' of 4" N/A Plastic, 865' of 2" Epoxy, 1,474' of 4" Bare Stl., 1,197' of 6" Bare Stl., 4,000' of 4" Epoxy, 271' of 2" N/A Plastic. Install 6,855' of 2" PE, 2,130' of 4" PE; 116 Services.	8,102	116	605,820		\$30,868	
	Contractor				153,233		8,065
	Material				21,692	12,760	
	Overhead				35,422	2,384	1,633
PRP.2736.East 13th St	Replace 2,093' of 6" Bare Stl., 2,452' of 4" Epoxy, 1,421' of 4" Bare Stl., 1,105' of 2" Epoxy, & 1,053' of 4" Plastic. Install 4,840' of 2" PE, and 3,900' of 4" PE, 119 Services.	8,124	119	622,948		\$10,028	
	Contractor				157,196		8,273
	Material				22,253	15,090	
	Overhead				36,338	2,651	1,075
PRP.2736.Kirkman,Bryon.Liberty	Replace 16,106' of bare 2" & 4" LP steel with 8,355' of 2" PE and 7,750' of 4" PE IP; 263 services.	16,105	263	584,493		\$30,088	
	Contractor				347,416		18,285
	Material				49,181	28,790	
	Overhead				80,311	5,858	5,703
PRP.2737.Cogar Ave	Replace 204' of 2" PE, 185' feet of 2" Mill Wrap - Bare Joint, 3,610' of 2" Epoxy, with 3,930' of 2" PE, 75 Services	3,999	75	434,523		\$21,319	
	Contractor				99,073		5,211
	Material				15,025	8,250	
	Overhead				22,902	1,671	1,056
PRP.2737.Hamilton Ave	Replace 5,540' of 2" Mill-Wrap Bare Joint, 6,584' of 2" Epoxy, 58' of 4" Epoxy, 2,934' of 4" Mill-Wrap, with 11,109' of 2" PE, and 2,950' of 4" PE, 180 Services	15,066	180	1,049,379		\$51,116	
	Contractor				237,776		12,515
	Material				35,660	19,800	
	Overhead				54,966	4,010	2,531
PRP.2737.KY.1247	Replace 500' of 4" steel with 500' of 4" HDPE	500	-	97,957		\$4,295	
	Contractor				-		-
	Material				-		-
	Overhead				-		-
PRP.2737.West Lane	Replace 6' of Mill Wrap Bare Joint 2" Stl & 1,234' of 2" Epoxy IP, with 1,236' of 2" PE IP; 20 Services	1,294	20	124,157		\$5,915	
	Contractor				26,420		1,391
	Material				3,740	2,200	
	Overhead				6,107	416	282
PRP.2738.Chandler Ave	Replace 1,576' of 6" Mill Wrap Bare Joint Stl., 357' of 2" Epoxy, 812' of 3" Epoxy, 611' of 4" Epoxy, 95' of 6" Epoxy, 878' of 3" Bare Stl., 558' of 2" Bare Stl., 3,594' of 4" Hot Tar, 11' of 2" Mill wrap, 341' of 4" N/A Plastic, 320' of 4" Bare Stl. Install 2,080' of 2" P.E. and 7,255' of 6" P.E. 61 Services	9,153	61	887,112		\$41,973	
	Contractor				80,579		4,241
	Material				11,407	6,710	
	Overhead				18,627	1,359	859
PRP.2738.Coakley St	Replace 2,394 feet of 6" Mill Wrap Bare Joint, 173 feet of 4" Epoxy, 530 feet of 4" Bare Stl., 840 feet of 4" Plastic, 703 feet of 2" Bare Stl., 2,624 feet of 2" Epoxy, 175 feet of 2" Plastic, 615 feet of 2" Bare Stl. Install 4,705 feet of 2" P.E., 3680' feet of 6" PE. 116 Services	8,054	116	828,591		\$39,147	
	Contractor				153,233		8,065
	Material				21,692	12,760	
	Overhead				35,422	2,384	1,633

