



**PHILADELPHIA GAS WORKS**

800 West Montgomery Avenue • Philadelphia, PA 19122

Brandon J. Pierce, Esq.  
Senior Attorney | Legal Department  
Direct Dial: 215-684-6219  
E-mail: [Brandon.Pierce@pgworks.com](mailto:Brandon.Pierce@pgworks.com)

October 30, 2018

**VIA FEDEX**

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
2<sup>nd</sup> Floor, 1 North  
400 North Street  
Harrisburg, PA 17120

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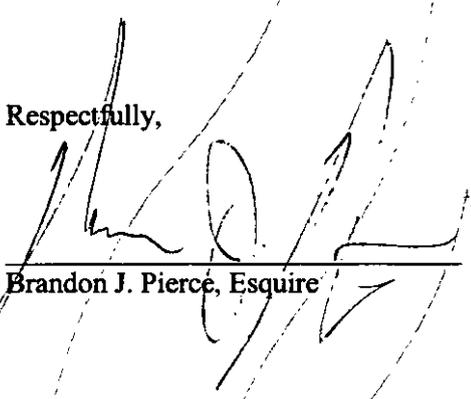
PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

**Re: Philadelphia Gas Works Annual Asset Optimization Plan for FY 2018 and FY 2019 (Projected)  
Docket No. M-2018-\_\_\_\_\_**

Dear Secretary Chiavetta:

Enclosed for electronic filing please find Philadelphia Gas Works' ("PGW") Annual Asset Optimization Plan for FY 2018 and FY 2019 (Projected). Copies will be served in accordance with the attached Certificate of Service.

Respectfully,

  
\_\_\_\_\_  
Brandon J. Pierce, Esquire

Enclosures

cc: Cert. of Service w/enc  
Bohdan Pankiw, Esq. w/enc. (via email)  
Paul Diskin w/enc. (via email)

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PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Philadelphia Gas Works** :  
**Annual Asset Optimization Plan** :  
**FY 2017 and FY 2018 (Projected)** : **Docket No. M-2018-\_\_\_\_\_**  
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**PHILADELPHIA GAS WORKS  
ANNUAL ASSET OPTIMIZATION PLAN  
FY 2018 AND FY 2019 (PROJECTED)**

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**I. INTRODUCTION**

In accordance with 52 Pa. Code § 121.6, Philadelphia Gas Works (“PGW”) submits its Annual Asset Optimization Plan (“AAO Plan”) for the LTIP period September 1, 2017 – August 31, 2018, and September 1, 2018 – August 31, 2019 (Projected).

PGW’s current LTIP (“LTIP II”) was approved by the Pennsylvania Public Utility Commission (“Commission”) on August 31, 2017,<sup>1</sup> and covers the five-year period beginning September 1, 2017 through August 31, 2022 (PGW’s fiscal years 2018 through 2022). Previously, under PGW’s first LTIP, on February 12, 2016, PGW filed a petition to modify the final year of the LTIP, consistent with the Commission’s Order that approved an increase in PGW’s Distribution System Improvement Charge (“DSIC”) from 5% to 7.5%.<sup>2</sup> The Commission approved PGW’s requested LTIP modification by Order dated June 9, 2016.<sup>3</sup>

This is the sixth AAO Plan submitted by PGW detailing its progress in removing at risk main, which is financed by both PGW’s current base rates and PGW’s DSIC. As can be observed

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<sup>1</sup> See Docket No. P-2017-2602315, Opinion and Order (Aug. 31, 2017).  
<sup>2</sup> Docket Nos. P-2012-2337737 and P-2015-2501500.  
<sup>3</sup> Docket Nos. P-2012-2337737 and P-2015-2501500, Opinion and Order (June 9, 2016).

below, PGW has exceeded the main replacement goals set forth in the LTIP II. In FY 2018, PGW replaced 33.87 miles of cast iron main, compared to the LTIP goal of 31.80 miles.

In FY 2019, PGW is projecting to replace 33.66 miles of at-risk main. This is due to PGW's heightened main replacement efficiency, as well as the approved increase in DSIC billings to a total of approximately \$33 million.

## **II. MATERIAL REQUIRED BY 52 PA. CODE § 121.6**

The Commission's regulations, at section 121.6,<sup>4</sup> require a utility's AAO Plan to provide a description of the eligible property repaired, improved, and replaced in the prior twelve-month period, as well as a description of the eligible property projected to be repaired, improved, and replaced in the upcoming twelve-month period, sufficient to show that the utility is in substantial compliance with its approved LTIP.

The following data is submitted in compliance with that requirement (begins on next page):

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<sup>4</sup> 52 Pa. Code § 121.6.

(1) Description of eligible property repaired, improved, and replaced in the prior twelve-month period (FY 2018) and projection of eligible property to be repaired, improved, and replaced in the upcoming twelve-month period (FY 2019):

	<u>FY 2018 Actual</u>	<u>FY 2019 Projected</u>
<b><u>CURRENT BASELINE PROGRAM</u></b>		
<b>8" &amp; Smaller LP/IP</b>	<b>18.51</b>	<b>18.59</b>
<b><u>ACCELERATED PROGRAM</u></b>		
<b><u>12" &amp; Larger HP</u></b>	<b>5.34</b>	<b>5.84</b>
<b><u>12" &amp; Larger LP</u></b>	<b>1.54</b>	<b>0.46</b>
<b><u>8" &amp; Smaller LP/IP</u></b>	<b>8.47</b>	<b>8.77</b>
<b><u>Abandonment for Non-Use</u></b>	<b>N/A</b>	<b>N/A</b>
<b><u>ACCELERATED TOTALS</u></b>	<b>15.36</b>	<b>15.07</b>
<b>Yearly Totals</b>	<b>33.87</b>	<b>33.66</b>

(2) Detailed description of facilities repaired, improved, and replaced in FY 2018:

2018 Annual Asset Optimization Plan					
		* Blended diameter project. Projected expenditures are captured for the entire project under large diameter portion of project.			
FY 2018 Detailed Description of Facilities					
30" HP		FY 2018 Actual		FY 2018 Projected	
Project Location	CI Removed from Inventory	Actual Expenditures	CI Removed from Inventory	Expenditures	
Collins, Ontario to Tioga; Tioga, Collins to Brabant; Ontario, Kensington to Collins	8,065	\$6,854,321.93	8,344	\$5,612,307	
4700-5200 N 9TH ST 900 W FISHER AVE 5300-5500 N 11TH ST Lining Job	5,214	\$3,738,843.37	Not originally planned. Added during FY 18		
<b>30" HP TOTAL MILEAGE/COST</b>	<b>2.51</b>	<b>\$10,593,165</b>	<b>1.58</b>	<b>\$5,612,307</b>	
<b>20" HP</b>					
Project Location	CI Removed from Inventory	Actual Expenditures	CI Removed from Inventory	Expenditures	
2800 S 63rd, 6000-6200 Lindbergh Blvd	3,302	\$3,422,622.76	3,176	\$2,227,895	
3600-3700 N. 2nd - Lining Project	699	\$573,017.06	Not originally planned. Added during FY 18		
<b>20" HP TOTAL MILEAGE/COST</b>	<b>0.76</b>	<b>\$3,995,640</b>	<b>0.60</b>	<b>\$2,227,895</b>	

(table continued on next page)

<b>12" HP</b>				
<b>Project Location</b>	<b>CI Removed from Inventory</b>	<b>Actual Expenditures</b>	<b>CI Removed from Inventory</b>	<b>Expenditures</b>
4800-4900 Summerdale, 4600-4700 Roosevelt Blvd, 800-900 Adams Ave	4,350	\$1,492,165.57	4,246	\$2,136,600
1100, 4500 Adams, 1100-1400 Unity, 4300 E Wingohocking, 4400 Oakland, 4300-4400 Elizabeth, 4400 Leiper	1,437	\$877,789.29	6,329	\$2,976,300
4500-4600 Cottman Ave, 7200 Glenloch St, 7200 Marsden St	835	\$694,088.12	1,615	\$796,050
1400 - 1800 Washington Ln.	1,946	\$819,355.38	2,025	\$1,305,000
7600 Germantown, 00-100 Roumfort, 7200-7500 Boyer, 00 McPherson, 7400-7500 Devon St	2,371	\$1,420,138.38	2,900	\$1,305,000
<b>12" HP TOTAL MILEAGE/COST</b>	<b>2.07</b>	<b>\$5,303,536.74</b>	<b>3.24</b>	<b>\$8,518,950</b>
<b>12" &amp; Larger HP Total</b>	<b>5.34</b>	<b>\$19,892,341.86</b>	<b>5.42</b>	<b>\$16,359,152</b>
<b>12" &amp; Larger LP</b>				
<b>Project Location</b>	<b>CI Removed from Inventory</b>	<b>Actual Expenditures</b>	<b>CI Removed from Inventory</b>	<b>Expenditures</b>
1400-1500 Conlyn, 1400-1500 Grange, 1400-1500 Clearview, 5700-5800 N. 15th, 5700-5800 N. 16th (East)	1,622	\$1,186,385	1,602	\$979,786
5500-5600 Sprague, Blakemore, Matthews, Ardleigh, 5700 Anderson, 1000-1100 Woodlawn, 1000-1200 Chelton	918	\$1,591,142	809	\$2,219,883
1400-1800 Norris St, 2000-2100 Carlisle St, 2000-2100 Broad St	1,545	\$761,599	1,467	\$785,935
3300-3500 N. 22nd St	1,748	\$430,588	1,653	\$2,238,720* Projected cost for entire project. First two phases 4x-4833 and 4x-4833a were completed in FY 2017 for a total of \$2,002,023. Total Project cost including 4x-4833B (3300-3500 N. 22nd) is 2,433,410
6000-6300 Wister, 6100-6300 N. Beechwood, 6200 N. Norwood, 2100 Medary	2,308	\$2,465,126	2,230	\$2,631,727
4300-4400 Edgemont, 2600-2700 Orthodox, 2600 Lefevre, 4300-4500 Salmon, 2700 Plum	<b>Pushed to FY 2019</b>		1,410	\$1,385,950
<b>12" LP TOTAL MILEAGE/COST</b>	<b>1.54</b>	<b>\$6,434,840.88</b>	<b>1.74</b>	<b>\$10,242,001</b>

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<b>8" and Smaller LP/IP</b>				
<b>Project Location</b>	<b>CI Removed from Inventory</b>	<b>Actual Expenditures</b>	<b>CI Removed from Inventory</b>	<b>Expenditures</b>
500-600 Gates St, 500 Acorn St, 6300 Lawrton St	<b>Pushed to FY 2019</b>		5,506	\$971,373
100 Dupont, 4500 Wilde, 4500 Ritchie, 4500 Saint Davids, 4500 Smick	2,674	\$847,638.82	<b>Not originally planned. Added during FY 18</b>	
2500-2600 S. 68th, 6800-6900 Elmwood, 6800 Dicks Ave, 2500-2600 Carroll, 2500 Massey	4,605	\$1,189,324.56	<b>Not originally planned. Added during FY 18</b>	
200 Wolf, 100 Daly, 2100-2200 Front, 100-200 Jackson, 100-200 Snyder, 2100 S. 2nd	3,125	\$803,090.19	3,103	\$866,431
3700-3900 Cresson, 100 Salaingnac, 100-200 Hermit, 100 Seville, 3700-3800 Sharp	2,531	\$1,133,278.63	2,551	\$903,537
300-400 Cinnaminson St, 300-400 Lemonte St, 200 Overlook Rd, 4800 & 6600 Silverwood St, 200-400 Delmar St, 4800-4900 Tibben St, 200-300 Fountain St, 6700 Pechin, 4700 Manayunk	7,737	\$2,248,844.55	7,722	\$1,624,954
6100-6200 Lindbergh Ave, 6100-6200 Harley Ave, 2900 Felton Ave, 2900 S 62nd St, 2900 Robinson St, 2900 Dewey St	3,584	\$874,794.05	3,563	\$739,593
1200-1500 N Howard St, 100 Master St, 1300 Hope St, 100 Jefferson St	3,159	\$881,000.16	3,120	\$759,200
2000 Gratz St, 2000 Cleveland St, 1900-2000 18th St, 1900 17th St, 1800 Fountain St, 1800 Norris St, 1700 Monument St, 1600 Berks St, 1800 Berks St	3,255	\$1,030,772.90	3,508	\$890,488
7600 Germantown, 00-100 Rounfort, 7200-7500 Boyer, 00 McPherson, 7400-7500 Devon St	4,665	*Blended Project- See total project expenditures under 7600 Germantown, 00-100 Rounfort, 7200-7500 Boyer, 00 McPherson, 7400-7500 Devon St 12" HP	*	*
Collins, Ontario to Tioga; Tioga, Collins to Brabant; Ontario, Kensington to Collins	279	*Blended Project- See total project expenditures under Collins, Ontario to Tioga; Tioga, Collins to Brabant; Ontario, Kensington to Collins 30" HP	*	*
4700-5200 N 9TH ST 900 W FISHER AVE 5300-5500 N 11TH ST Lining Job	22	*Blended Project- See total project expenditures under 4700-5200 N 9TH ST 900 W FISHER AVE 5300-5500 N 11TH ST Lining Job 30" HP	*	*

(table continued on next page)

3300-3500 N. 22nd St	386	*Blended Project- See total project expenditures under 3300-3500 N 22nd St 20" LP	*	*
6000-6300 Wister, 6100-6300 N. Beechwood, 6200 N. Norwood, 2100 Medary	190	*Blended Project- See total project expenditures under 6000-6300 Wister, 6100-6300 N Beechwood, 6200 N. Norwood, 2100 Medary 20" LP	*	*
4500-4600 Cottman Ave, 7200 Glenloch St, 7200 Marsden St	741	*Blended Project- See total project expenditures under 4500-4600 Cottman Ave, 7200 Glenloch St, 7200 Marsden St 12" HP	*	*
*1400-1800 Norris St, 2000-2100 Carlisle St, 2000-2100 Broad St	958	*Blended Project- See total project expenditures under 12" LP - 1400-1800 Norris St, 2000-2100 Carlisle St, 2000-2100 Broad St	951	*
*1400-1500 Conlyn, 1400-1500 Grange, 1400-1500 Clearview, 5700-5800 N. 15th, 5700-5800 N. 16th (East)	1,829	*Blended Project- See total project expenditures under 12" LP - *1400-1500 Conlyn, 1400-1500 Grange, 1400-1500 Clearview, 5700-5800 N. 15th, 5700-5800 N. 16th (East)	1,618	*
*5500-5600 Sprague, Blakemore, Matthews, Ardleigh, 5700 Anderson, 1000-1100 Woodlawn, 1000-1200 Chelton	4,993	*Blended Project- See total project expenditures under 12" LP - 5500-5600 Sprague, Blakemore, Matthews, Ardleigh, 5700 Anderson, 1000-1100 Woodlawn, 1000-1200 Chelton	4,992	*
*4300-4400 Edgemont, 2600-2700 Orthodox, 2600 Lefevre, 4300-4500 Salmon, 2700 Plum	Pushed to FY 2019		3,386	*Blended Project- See total projected expenditures 4300-4400 Edgemont, 2600-2700 Orthodox, 2600 Lefevre, 4300-4500 Salmon, 2700 Plum 12" LP
<b>8" and Smaller LP/IP TOTAL MILEAGE/COST</b>	<b>8.47</b>	<b>\$9,008,743.85</b>	<b>7.58</b>	<b>\$6,755,576</b>
<b>Abandonment for Non-Use</b>				
<b>Project Location</b>	<b>CI Removed from Inventory</b>	<b>Actual Expenditures</b>	<b>CI Removed from Inventory</b>	<b>Expenditures</b>
<b>Abandonment for Non-Use Mileage/COST</b>	-	-	-	-
<b>Total Cast Iron Inventory Reduction Acceleration</b>	<b>15.36</b>	<b>\$35,335,926.60</b>	<b>14.74</b>	<b>\$33,356,729</b>

(3) Detailed description of facilities projected to be repaired, improved, and replaced in FY 2019:

<b>2018 Annual Asset Optimization Plan</b>  <b>FY 2019 Detailed Description of Facilities</b>		
	* Blended diameter project. Projected expenditures are captured for the entire project under large diameter portion of project.	
<b>30" HP</b>	<b>FY 2019 Projected</b>	
<b>Project Location</b>	<b>CI Removed from Inventory</b>	<b>Expenditures</b>
100-400 W Luzerne 3800-3900 N Front 100-200 E Erie 3500-3700 B 200-300 E Tioga	5,997	\$5,637,980
4000 - 4600 N 9TH St 400 - 800 W Luzerne	4,796	\$1,165,880
<b>30" HP TOTAL MILEAGE/COST</b>	<b>2.04</b>	<b>\$6,803,860</b>
<b>16" HP</b>		
<b>Project Location</b>	<b>CI Removed from Inventory</b>	<b>Expenditures</b>
63rd Market to Haverford Callowhill Gross to Felton (Lining)	4221	\$598,486
<b>16" HP TOTAL MILEAGE/COST</b>	<b>0.80</b>	<b>\$598,486</b>

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<b>12" HP</b>		
<b>Project Location</b>	<b>CI Removed from Inventory</b>	<b>Expenditures</b>
1900-2200 Bryn Mawr Ave 5000-5100 Diamond St	1,442	\$690,417
3rd Olney to 65th Cheltenham 3rd to 5th 3. 65th 3rd to Walnut Park	6,255	\$3,375,000
5600 Rising Sun, 300-400 E Godfrey, 5700 Newton, 300 E Sanger, 5700-5800 Weymouth	2,640	\$1,663,200
700-800 E Upsal St	1,060	\$477,000
8500 Glen Campbell, 900 Lomond, 900 Glenroy, 900 E Cathedral, 8400-8500 Chippewa	1,898	\$729,610
Red Lion Haldeman to Bustleton HP Main Replacement	2,545	\$1,692,000
<b>12" HP TOTAL MILEAGE/COST</b>	<b>3.00</b>	<b>\$8,627,227</b>
<b>12" &amp; Larger HP Total</b>	<b>5.84</b>	<b>\$16,029,573</b>
<b>12" &amp; Larger LP</b>		
<b>Project Location</b>	<b>CI Removed from Inventory</b>	<b>Expenditures</b>
200 E Washington, 6300 Morton St, 6300 Gardenia St, 6300 Carnation St	422	\$1,047,430
2000 Spruce St, 2000 Waverly St	507	\$297,955
4300-4400 Edgemont, 2600-2700 Orthodox, 2600 Lefevre, 4300-4500 Salmon, 2700 Plum	1,410	\$1,137,186
63rd Market to Haverford Callowhill Gross to Felton	76	\$913,337
<b>12" LP TOTAL MILEAGE/COST</b>	<b>0.46</b>	<b>\$3,395,908</b>

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<b>8" and Smaller LP/IP</b>		
<b>Project Location</b>	<b>CI Removed from Inventory</b>	<b>Expenditures</b>
1100, 4500 Adams, 1100-1400 Unity, 4300 E Wingohocking, 4400 Oakland, 4300-4400 Elizabeth, 4400 Leiper	3,628	\$1,350,106
1300-1400 E. Montgomery, 600 Gaul, 600 Miller	1,663	\$565,853
1700-1800 Spruce St, 1700-1800 Delancey St, 1700 Panama St, 1600 Pine St, 1700-1800 Addison St, 1700 Lombard St, 200 & 400 S 18th St, 300-400 S 17th St, 300 Chadwick St	4,030	\$1,224,716
2100 Fanshawe St, 6600 Bustleon Ave, 6600 Akron St, 6600 Eastwood St, 6600 Oakland St, 2000 Magee, 1900-2000 Unruh	6,303	\$1,966,120
2100 S 23rd, 2200 Cantrell, 2200 Winton, 2100-2300 S 22nd, 2100 Wolf, 2200-2300 Croskey, 2200-2300 Hemberger, 2300 Jackson, 2200 S 24th	4,798	\$1,071,843
2800-2900 Chatham St, 2900 Gaul St, 2800-2900 Belgrade St, 2400-2600 Cambria St, 2500 Monmouth St	2,951	\$1,041,536
2900 Ella St, 2800-2900 Kip St, 2800-2900 B St, 2800 Rosehill, 300 E Cambria, 300 E William St	2,992	\$1,044,053
300-500 E Washington Ln, 6200-6300 Homer St, 6300 Ross St	3,364	\$940,261
500-600 Gates St, 500 Acorn St, 6300 Lawnton St	5506	\$971,373

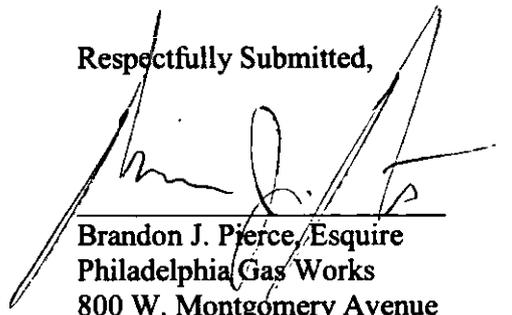
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6100-6200 Lansdowne, 1500 Felton, 1400-1500 S. 62nd, 1500 S. 61st, 1400-1500 Robinson, 6100-6200 Media, 1400 Hirst, 6100-6200 Master	5246	\$1,036,185
200 E Washington, 6300 Morton St, 6300 Gardenia St, 6300 Carnation St	3364	*
2000 Spruce St, 2000 Waverly St	483	*
4300-4400 Edgemont, 2600-2700 Orthodox, 2600 Lefevre, 4300-4500 Salmon, 2700 Plum	3386	*
63rd Market to Haverford Callowhill Gross to Felton	846	*
1900-2200 Bryn Mawr Ave 5000-5100 Diamond St	1390	*
<b>8" and Smaller LP/IP TOTAL MILEAGE/COST</b>	<b>8.77</b>	<b>\$9,861,940</b>
<b>Abandonment for Non-Use</b>		
<b>Project Location</b>	<b>CI Removed from Inventory</b>	<b>Expenditures</b>
<b>Abandonment for Non-Use Mileage/COST</b>	-	-
<b>Total Cast Iron Inventory Reduction Acceleration</b>	<b>15.07</b>	<b>\$29,287,421</b>

### III. CONCLUSION

PGW's Annual Asset Optimization Plan for FY 2018 and projections for FY 2019 demonstrates, in accordance with 52 Pa. Code § 121.6, that PGW's performance is consistent, and substantially complies, with the overall schedule of repairs, improvements, and replacements of the specific eligible property in its current LTIP II for the corresponding twelve-month periods.

Respectfully Submitted,



Brandon J. Pierce, Esquire  
Philadelphia Gas Works  
800 W. Montgomery Avenue  
Philadelphia, PA 19122  
(215) 684-6219

October 30, 2018

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PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

**CERTIFICATE OF SERVICE**

I hereby certify that this day I served a copy of PGW's Annual Asset Optimization Plan upon the persons listed below in the manner indicated in accordance with the requirements of 52 Pa. Code Section 1.54.

**VIA FIRST CLASS MAIL and EMAIL**

Darryl Lawrence, Esq.  
Erin Gannon, Esq.  
Office of Consumer Advocate  
5<sup>th</sup> Floor, Forum Place Bldg.  
555 Walnut Street  
Harrisburg, PA 17101-1921  
[dlawrence@paoca.org](mailto:dlawrence@paoca.org)  
[egannon@paoca.org](mailto:egannon@paoca.org)

Sharon Webb, Esq.  
Office of Small Business Advocate  
Commerce Building, Suite 202  
300 North 2<sup>nd</sup> Street  
Harrisburg, PA 17101  
[swebb@pa.gov](mailto:swebb@pa.gov)

Richard Kanaskie, Esq.  
Bureau of Investigation & Enforcement  
PA Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, 2nd Floor  
Harrisburg, PA 17120  
[rkanaskie@pa.gov](mailto:rkanaskie@pa.gov)

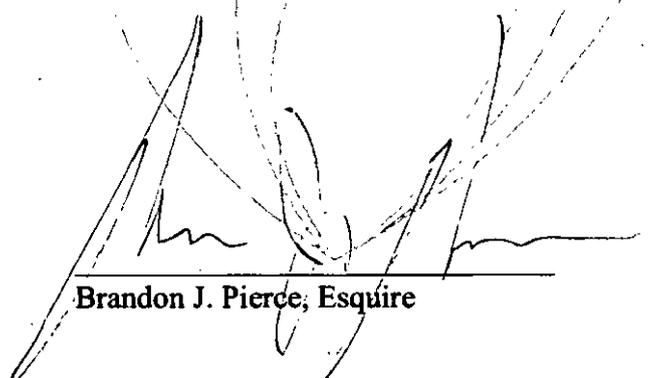
Charis Mincavage, Esq.  
McNEES, WALLACE, NURICK  
100 Pine Street  
P.O. Box 1166  
Harrisburg, PA 17108-1166  
[cmincavage@mwn.com](mailto:cmincavage@mwn.com)

Dated: October 30, 2018

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Brandon J. Pierce, Esquire

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ORIGIN ID: BBXA (215) 684-6219  
BRANDON J. PIERCE, ESQ.  
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800 WEST MONTGOMERY AVENUE  
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PHILADELPHIA, PA 19122  
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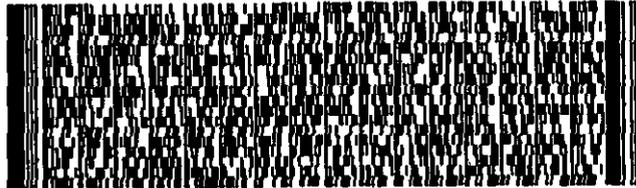
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