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| PUC logo | COMMONWEALTH OF PENNSYLVANIA  PENNSYLVANIA PUBLIC UTILITY COMMISSION  400 NORTH STREET, HARRISBURG, PA 17120 | **IN REPLY PLEASE REFER TO OUR FILE** |

January 4, 2019

Docket Nos.: P-2018-3005037

P-2018-3005039

Utility Codes: 2220554

2320555

DANIEL CLEARFIELD

ECKERT SEAMANS CHERIN & MELLOTT, LLC

213 MARKET STREET, 8TH FLOOR

HARRISBURG, PA 17101

RE: Petition of The Pittsburgh Water and Sewer Authority for Approval of its Long-Term Infrastructure Improvement Plan

Dear Mr. Clearfield,

On September 28, 2018, the Pittsburgh Water and Sewer Authority (PWSA) filed a Petition seeking approval of its long-term infrastructure improvement plan (LTIIP). To assist the Commission in conducting the review of PWSA’s LTIIP, please respond with the information requested in Attachment 1. In addition to the hard-copy filing directions, below, please also email the information to [kennshaffe@pa.gov](mailto:kennshaffe@pa.gov).

Please forward the information to the Secretary of the Commission at the address listed below **within ten (10) working days** from the date of this letter. Make sure to reference the Docket Numbers listed above when filing your response. Please note that some responses may be e-filed to your case, <http://www.puc.pa.gov/efiling/default.aspx>. A list of document types allowed to be e-filed can be found at <http://www.puc.pa.gov/efiling/DocTypes.aspx>.

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|  | Rosemary Chiavetta, Secretary |
|  | Pennsylvania Public Utility Commission |
|  | 400 North Street |
|  | Harrisburg, PA 17120 |

**Your answers should be verified per 52 Pa Code § 1.36.** Accordingly, you must provide the following statement with your responses:

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief, and that I expect to be able to prove the same at a hearing held in this matter.  I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

The blank should be filled in with the name of the appropriate company representative, and the signature of that representative should follow the statement.

Please direct any questions to Kenneth Shaffer, Bureau of Technical Utility Services, at [kennshaffe@pa.gov](mailto:kennshaffe@pa.gov), or (717)787-2359.

 Sincerely,

Rosemary Chiavetta

Secretary

Enclosure

cc: Daniel Searfoorce, TUS

John VanZant, TUS

Shaun Sparks, LAW

Kenneth Shaffer, TUS

Tiffany Hunt, ALJ

Docket Nos. P-2018-3005037, P-2018-3005039

The Pittsburgh Water and Sewer Authority

LTIIP

Attachment 1:

Data Request TUS 1

In your response, please refer to the question number and letter (if applicable).

Reference PWSA’s LTIIP

1. Reference Section 1.2: Pittsburgh Water and Sewer Authority History and System Overview
   1. The LTIIP does not provide any details on the materials of the water and sewer mains. Is PWSA incapable of providing details on the material makeup of the water and sewer mains? If so, explain in detail why.
2. Reference Figure 2-3: Water Valves by Type
   1. Describe in detail what is meant by “…the ‘valve type’ field in the Authority’s GIS system is undergoing verification and reevaluation.”
   2. When will the “verification and reevaluation” be completed?
   3. Confirm if the verification and reevaluation will revise any of the Tables or Figures presented in the LTIIP and, if so, provide a timeline when the updated information will be submitted.
3. Reference Section 2: Water System
   1. PWSA's prioritization of water main and service line replacement projects, other than lead service lines, appears based on several factors that do not include the material type of the mains and lines. Describe in detail if material type was utilized in the evaluation process for the small diameter main, water main, and large diameter main replacement programs. If material type was not a factor utilized in the evaluation process, describe in detail why not.
4. Reference Section 2.2: Lead Service Line Replacement Program; and Appendix C
   1. As outlined in the PWSA Lead Policy, the policy addresses only single-family residential properties with service lines of 1-inch diameter or less. What is PWSA’s program, if any, for non-residential service lines of 1-inch or greater as well as other lead facilities on the PWSA system?
5. Reference Section 2.3.1: 2018 Small Diameter Water Main Replacement Program
   1. Provide clarification and/or additional detail to support PWSA’s chosen 2018 SDWMR projects, such as the main break history of all small diameter mains by location for the past 5 years, identification of locations or areas where available fire flow is constrained by the small diameter mains, and the definition of a “major user” and how those are prioritized.
6. Reference Section 2.3.5: Annual Hydrant and Valve Replacement Program
   1. Does the projected rate of replaced hydrants (1% per year for 2018 and 2019) include only those inoperable hydrants identified during routine maintenance and flushing activities and/or reported through fire departments?
   2. If not included in the annual contract replacements, how many hydrants are expected to be replaced through watermain replacement projects through the course of the LTIIP?
   3. How many hydrants will be replaced per year for the rest of the term of the LTIIP?
   4. How many valves 12 inches and larger are expected to be replaced each year of the term of the LTIIP?
   5. When will the valve database be completed?
7. Reference Section 2.5: Initial Planned Repair and Replacement Schedule and Projected Annual Expenditures
   1. Provide a table or tables that detail(s) PWSA's historic replacement of the DSIC-eligible materials by year for each of the years 2013 through 2017 for each of the identified major project categories:
      1. Hydrant Replacement
      2. Valve Replacement
      3. Water Relay Replacement
      4. Small Diameter Water Main Replacement
      5. Large Diameter Water Main Improvements
      6. Large Water Meters
      7. Lead Service Line Replacement
8. PWSA indicates that it will develop a computerized work order maintenance system to improve the management of day-to-day maintenance of the system and emergent needs during water main breaks. When does PWSA anticipate having this system in place?
9. Reference Section 3.4: Initial Planned Repair and Replacement Schedule and Projected Annual Expenditures
   1. Provide a table or tables that detail(s) PWSA's historic replacement of the DSIC-eligible materials by year for each of the years 2013 through 2017 for each of the identified major project categories:
      1. Small-Diameter Sewer Rehab
      2. Large-Diameter Sewer Rehab
      3. Sewer Reconstruction
      4. Sewers Under Structures
10. Reference Section 4.1: General Description of Eligible Hybrid Projects
    1. Provide a table or tables that detail(s) PWSA's historic replacement of the DSIC-eligible materials by year for each of the years 2013 through 2017 for each of the identified major project categories:
       1. Utility Cost Shares
       2. Smallman Street Reconstruction
       3. Maytide Storm and Sanitary Sewer System Improvements
11. Reference Section 5: Summary of Past and Projected Capital Spending
    1. Provide specific details on how PWSA will finance the significant increase in annual capital expenditures outlined in Table 5-1.
12. Reference Section 7: Workforce Management and Training Program
    1. How many engineers are currently on staff with PWSA and how many will be hired in 2019 and through 2023?
    2. How may licensed Professional Engineers does PWSA currently have on staff and how many will be hired through 2023?
    3. Describe specifically how staff engineers are involved in the LTIIP process and projects. For example, is a staff engineer or engineers assigned to each LTIIP project for conception, design and oversight? For contracted LTIIP projects and work, describe how staff engineers are involved in the process.
    4. PWSA appears to be planning to hire 101 new full-time employees in 2019 and 122 additional full-time employees by 2023. Detail the approximate additional costs associated with such a large increase in staff, including the approximate additional annual salaries, annual training costs, onboarding costs, and additional human resources costs.
13. Reference Section 8: Outreach and Coordination Activities
    1. Describe specifically how PWSA will engage with local utilities and governments to coordinate its expanded capital spending projected in the LTIIP including how PWSA will coordinate with local utilities and governments for increased capital spending through 2023 when overlapping projects make such coordination desirable.
    2. Indicate if PWSA participates in the Pittsburgh Public Service Coordination Committee.