

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

|                                    |   |                     |
|------------------------------------|---|---------------------|
| ELECTRONIC APPLICATION OF NORTHERN | ) |                     |
| KENTUCKY WATER DISTRICT FOR A      | ) |                     |
| CERTIFICATE OF PUBLIC CONVENIENCE  | ) | CASE NO. 2021-00047 |
| AND NECESSITY TO CONSTRUCT THE     | ) |                     |
| FORT THOMAS TREATMENT PLANT        | ) |                     |
| BASIN IMPROVEMENTS PHASE 2 AND     | ) |                     |
| FOR APPROVAL OF FINANCING          | ) |                     |

**RESPONSE TO STAFF TELEPHONE DATA REQUEST OF MARCH 24, 2021**

**1. Provide a copy of the Kentucky Infrastructure Authority Letter of Commitment.**

Witness: Rehtin

Response: The Commitment Letter, including the project conditions listed in Attachment A, is attached. As specified, the Commitment cannot be executed until receipt of PSC approval of the project and financing.

**2. Provide a summary of the description of the Phase 2 construction.**

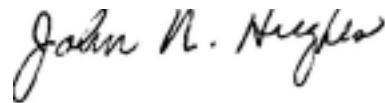
Witness: Kramer

Response: The purpose of this project is to improve water quality and service reliability for customers. This project will include improvements to both the Taylor Mill Treatment Plant and the Fort Thomas Treatment Plant.

The Taylor Mill Treatment Plant was built in the 1950s and is capable of treating up to 10 MGD. Additionally, this plant houses a critical pump station, which transmits water from both the Fort Thomas and Taylor Mill Treatment Plants to about 60% of Kenton County. The pump station and a majority of the plant are fed from a Duke Energy transmission line. In the event of power outage or critical substation/transformer failure, the District would lose the ability to supply water to a majority of Kenton County. This is significant water quality and public health concern. With the proposed standby power project, the plan is to install a generator, switch gear, and new substation. These improvements will be capable of powering the existing treatment plant and one of the larger pumps or potentially two of the smaller pumps within the pump station. This will allow improved system reliability without creating potential water quality concerns.

The preliminary treatment facilities at the Fort Thomas Treatment Plant (FTTP) consists of four uncovered concrete basins. Basins #2 and #3 were constructed in 1936 and underwent extensive rehabilitation in 2015. The current project will address Basins #1 and #4 which were built in 1987 and 1992 respectively. These basins are beginning to show signs of concrete deterioration and the process equipment is worn out requiring frequent repair. To extend the life of these 2 basins, improvements will include concrete repair, reconfiguration of the flocculation process and mixing basins, and replacement of influent/effluent valves and sludge collection equipment. In addition to this work, the existing tube settlers in all 4 basins will be replaced with new plate settlers and the chemical feed manifold piping within the sodium hypochlorite building will be replaced. This will improve water quality and treatment efficiency.

Submitted by:



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