**2025 WATER PROJECT APPLICATION ADDITIONAL INFORMATION**

Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Applicant: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Contact Person: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Engineer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Type: 🞏 Source Capacity 🞏Treatment Plant Capacity 🞏Storage Capacity

🞏 Pressure 🞏 Water Loss 🞏 Aging Equipment

🞏 Line Extension 🞏 Quality and Operations

Complete the following information for existing and under-construction facilities which relate to the proposed project using the dates of the most recent audit.

This technical application should be sealed by a professional engineer, licensed in Tennessee.

1. **Provide a brief project description, including scope, purpose & need, and condition of existing facilities. This is required even if PER is included:**
2. **Description of project location:**
   1. Attachment A: Project Map
3. **Detailed project cost including proposed funding sources.** **For water loss projects, laterals up to the property line must be included.:**
4. **Project Schedule:**
5. **Measurement:** Water Loss Submitted to Comptroller (Use most recent):
   1. Water loss percentage submitted to Comptroller (%):
   2. Do you track water loss on a monthly basis? 🞏Yes 🞏No
   3. How often are master meters hydraulically calibrated?
   4. Attachment B: Monthly water loss data, if available (12 months)
6. **Mapping:**
   1. Is the current water system map up to date? 🞏Yes 🞏No
   2. Date of last revision:
7. **Planning/Repair**: Include selected items in detailed project description above.
   1. Does the utility have a leak detection and repair program including:
      1. Locating and Repairing Leaks using a systemized method: 🞏Yes 🞏No

Explain method:

* + 1. Method to isolate and measure flow in sections of the system through District Metered Areas, bypass meters or a comparable method? 🞏Yes 🞏No
    2. Installing/Utilizing software management: 🞏Yes 🞏No

Name of software:

Explanation of how software is used:

* 1. Does the proposed project include:

1. Locating and Repairing Leaks using a systemized method: 🞏Yes 🞏No
2. Method to isolate and measure flow in sections of the system through District Metered Areas, bypass meters or a comparable method? 🞏Yes 🞏No
3. Installing/Utilizing software management: 🞏Yes 🞏No

Name of software:

Explanation of how software will be used:

1. **Problem being addressed (complete only sections a-f that apply to the proposed project):**
   1. **Source Capacity**

Type and Capacity of Source (GPD): Existing Proposed

* 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Subtotal: \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Average Daily Demand (GPD): \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Peak Daily Demand (GPD): \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Average Daily Demand/Existing Source Capacity (%):

1. **Water Treatment Plant Capacity**

Existing Proposed

Design Capacity (GPD): \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Average Daily Demand (GPD): \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Peak Daily Demand (GPD): \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Average Daily Pumping Time (Hours): \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Average Daily Demand/Design Capacity (%): \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Storage Capacity**

Total Storage Capacity (MG with clearwell):

Total Distribution Storage Capacity (MG without clearwell):

Total Storage Capacity/Average Daily Demand (%):

1. **Pressure**

Number of customers:

Number of customers below 20 psi:

Number of customers below 20 psi/Number of customers (%):

1. **Water Loss**

Water Purchased and/or Produced (MGY):

Total Water Sold (MGY):

Water loss = Water Pumped and/or Produced – Water Sold (MGY):

Water loss/Water pumped (%):

Is the proposed project in an isolated, measured section of the system such as a DMA? 🞏Yes 🞏No If yes, percent water loss in section:

(Based on a minimum of 6 months.)

1. **Aging Equipment**

Age of equipment as of November 1, 2024:

Life expectancy of original equipment, must be longer than 10 years:

(Age of equipment/ Life expectancy)\*100:

Provide information, if available, for the following:

* Maintenance history for existing equipment being proposed for replacement
* Specific current condition of the existing equipment being proposed for replacement
* Estimated useful life remaining in existing equipment (provide any documentation related to when equipment was originally installed, if available)
* Information on any “environmental” conditions that might have caused acceleration of the deterioration of the equipment being replaced
* Documentation available to ensure that the life expectancy of proposed replacement equipment will be longer than 10 years (such as documentation from manufacturer or projected depreciation schedule)

1. **Line Extension**

Line location, size and material:

Customers served:

1. **Quality and Operations**

Check all the drivers and challenges that best describe your project. Clearly describe how the proposed project will improve the conditions or meets the objective of the selected items.

*Drivers*

* Modernization
* Sustainability Initiative
* Health and Safety Risk
* Capital Improvement
* Other-please explain

*Challenges*

* Contamination of the water supply posing an immediate health threat
* Deteriorating equipment (existing facilities are in a condition that poses both a human health risk or threat to water quality)
* Continuing MCL and/or SMCL violations
* Trihalomethane control techniques
* Presence of carcinogens thought to pose a long term health risk of 1 in 100,000 or higher risk
* Addition of redundancy or standby power
* Loss of desired level of service
* Frequent maintenance item
* Other

Technical Application Checklist:

* Technical application using format above, sealed by a professional engineer licensed in Tennessee
* Attachment A: Project Map
* Attachment B: Monthly water loss data, if available (12 months)