

DATE: February 3, 2020
TO: Matthew Jordan, General Manager
FROM: Kenneth R. Herd, Chief Science and Technical Officer *KRH*
SUBJECT: America's Water Infrastructure Act (AWIA) Risk & Resilience Assessment – *Status Report*

SUMMARY

Tampa Bay Water will be required to submit Risk and Resilience Assessment certification forms to U.S. EPA by March 31, 2020 for each of its facilities permitted as a Community Water System. This item provides a summary of the actions being taken to complete this assessment by the certification deadline set out in the America's Water Infrastructure Act (AWIA) of 2018.

RECOMMENDATION

Receive Status Report.

COST/FUNDING SOURCE

N/A

DISCUSSION

Tampa Bay Water has utilized guidance provided by U.S. EPA, the Association of Metropolitan Water Agencies and the American Water Works Association (AWWA) to develop a risk assessment methodology for assessing and documenting threats and risks at a facility level. Tampa Bay Water utilized risk analysis concepts and approaches set out in AWWA J100 for identifying and analyzing risks to Tampa Bay Water's facilities and systems associated with malevolent acts and natural hazards.

The methodology used for the assessment includes:

- Identification of facility-specific information useful for conducting the AWIA threat assessment (Asset Characterization)
- Identification of threats relevant to Tampa Bay Water facilities and assessment of the likelihood of each of these threats impacting Tampa Bay Water facilities (Threat Characterization and Analysis)
- Assessment of the potential negative consequences pertinent to each AWIA subject area (Consequence Analysis)
- Identification of the vulnerabilities and controls already in place at Tampa Bay Water facilities to reduce the risks identified in the initial risk analysis (Risk/Resilience Analysis)

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- Identification of potential Risk Management Actions for further reducing risk and improving resilience (Risk/Resilience Management)

To facilitate this assessment, individual Excel workbooks have been created for each Tampa Bay Water facility covered by the AWIA requirements.

These workbooks have been completed and are currently being reviewed by Tampa Bay Water staff. The results of the assessment will be used to update the Tampa Bay Water's Risk Management Plan, as required under the AWIA provisions.

Copies of the completed AWIA Certification Forms that are submitted to U.S. EPA for complying with the March 31, 2020 deadline will be provided to the member governments.

BACKGROUND

The America's Water Infrastructure Act (AWIA) of 2018 was signed into law on October 23, 2018. This law included provisions that amended the Safe Drinking Water Act and set out requirements that Community Water Systems conduct a risk and resilience assessment and prepare or revise an emergency response plan. Community Water Systems serving a population greater than 100,000 are required to submit a form to U.S. EPA by March 31, 2020 certifying that the required Risk and Resilience Assessment has been completed. According to direction received from U.S. EPA, this certification form needs to be completed and submitted for each Community Water System by its PWS number.

The Risk and Resilience Assessment is required to cover the following:

- The risk to the system from malevolent acts and natural hazards;
- The resilience of the pipes and constructed conveyances, physical barriers, source water, water collection and intake, pretreatment, treatment, storage and distribution facilities, electronic, computer, or other automated systems (including the security of such systems) which are utilized by the system;
- The monitoring practices of the system;
- The financial infrastructure of the system;
- The use, storage, or handling of various chemicals by the system; and
- The operation and maintenance of the system.

Additional information on the AWIA requirements can be found on the U.S. EPA website at: <https://www.epa.gov/waterresilience/americas-water-infrastructure-act-risk-assessments-and-emergency-response-plans>.