



ERIE COUNTY WATER AUTHORITY INTEROFFICE MEMORANDUM

June 19, 2019

TO: Jerome D. Schad, Chairman
Mark S. Carney, Vice Chairman
E. Thomas Jones, Treasurer

FROM: Karen A. Prendergast, Chief Financial Officer *KAP*
Russell J. Stoll, Executive Engineer *RJ Stoll*

SUBJECT: Goals Considerations - Infrastructure Prioritization Criteria

Project candidates will meet the strategic infrastructure plan goals set by ECWA. These goals are: Redundancy in ECWA plants and distribution system, cyber security and automation of production and distribution system, increase in replacement of transmission and distribution mains with a goal of .75% of our direct service lines per year (currently 15 miles) by 2024 and expansion of bulk sale into new service areas.

As the list of proposed projects is developed it must also be prioritized. The criteria are listed below and include an explanation of considerations for each item.

Health and Safety - Evaluate the affect the project would have on the health and safety of the public and ECWA employees. Consider the mitigation of any current health and safety risk(s) and the overall improvement of health and safety achieved by implementation of the project.

Impact of Failure - Evaluate the criticality of the project/improvements to the ability to treat and deliver water and the mitigation of risk associated with implementation of the project. Also consider the project effect on improving the confidence of our customers.

Redundancy of Facilities - Evaluate the vulnerability to the existing system and the improvement offered by implementation of the proposed project. Identify the single point-of-failure potential (can the system continue to serve customers in the event of a loss of one or more system components)

Process Reliance - Evaluate the affect on water quality or the ability to produce/deliver water in the event of existing component failure or lack of implementation. Consider the process reliance improvement provided by implementation of the project.

Regulatory Compliance - Evaluate the ability to meet current and future regulatory requirements for water quality, public/employee safety, and agency reporting.

Urgency in Terms of Time - Evaluation of the time needed to plan, design, bid, construct and implement the capital improvement based on a known constraint such as physical condition/reliability of the system component, regulatory deadline, and potential for additional customers, etc.

Each project will then be scored against the above criteria. The score will range from 1(one) to 5(five), where 1 is a negligible impact to the criteria to 5, which is an extreme impact to the criteria. This approach will result in a prioritization of the proposed projects. The highest priority projects will be advanced to the design phase and then to the construction/implementation phase.

It is anticipated that the prioritization will be reviewed each year to determine if anything has changed that would affect the priority of the projects. Changes such as unanticipated infrastructure failure or degradation, or unexpected new regulatory requirements must be considered.

KAP:RJS*Imb