



ENGINEERING AND
MANAGEMENT CONSULTANTS

Cyber Security and Privacy City of Rochelle

Presentation to Rochelle City Council
July 22, 2019

Discussion Topics

- Introductory Remarks
- The Threat Landscape for Municipal Entities
- Rochelle's Cyber Security & Privacy Program
- Q & A

Introductory Remarks

Rochelle Municipal Utilities (RMU) and the City should be commended on its attention to cyber security and privacy. That focus is critical for the success of any cyber security program.

AESI assessed the security controls applied to each of the three categories (people, governance & process, technology) at RMU.

AESI's recommendations will take time and effort to implement reflective that cyber security is a continuous process, not a one-and-done. With implementation of our recommendations RMU and the City will become more cyber resilient and a model for other municipalities.

The Threat Landscape for Municipal Entities

“Healthcare, small utilities and municipalities are now the preferred targets for extortion attacks.”

<https://www.databreachtoday.com/connecticut-city-pays-ransom-after-crypto-locking-attack-a-11631>

Ransomware – Effective and Costly

Lake City, FL: \$400,000

Riviera Beach, FL: \$600,000

Key Biscayne, FL: TBD

Jackson County, GA: \$400,000

Georgia Administrative Office of the Courts

Lansing Board of Water & Light, MI: \$25,000 Ransom, \$2.5 Million to recover

City of Atlanta, GA: \$52,000 Ransom, \$7.2 Million To Recover (So Far)

City of Baltimore, MD: \$75,000 per User, \$18 Million Damages (So Far)

Fort Collins, CO – Loveland Water District

Jacksonville, NC - Onslow Water and Sewer Authority

Dekalb, IL: Under Investigation

Rochelle's Cyber Security and Privacy Program

- 1) Standards Based:
 - a) National Institute of Standards and Technology Cybersecurity Framework
 - b) American Public Power Association Cyber Scorecard
 - c) North American Electric Reliability Corporation Critical Infrastructure Protection Standards
- 2) Action plans and long term roadmap in place to improve RMU's cyber maturity and subsequently reduce risk.
- 3) Addresses People, Governance & Process, Technology:
 - a) RMU Cyber Security, Privacy and Physical security
 - b) City's Policies and Procedures



Thank You

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