



# WATER ENVIRONMENT ASSOCIATION OF TEXAS

*Preserving & Enhancing the Water Environment of Texas*

A Practical Application of NIST Cybersecurity Framework

**DATE June 28th @ 11:30-1:00PM CST**

Presentation Title: How the NIST Framework relates to AWWA Cybersecurity Guidance

Presenter: Phil Gaberdiel, Engineering Practice Director at EMA, Inc.

Presenter(s) bio(s): Phil is a Principal Consultant with EMA, Inc. He has more than 30 years of experience in the planning and design and implementation of control systems for municipal water and wastewater facilities. His experience includes developing SCADA master plans, managing control system design projects and performing technical duties including evaluation, design, specification, construction management, commissioning, startup of new and replacement systems, and analysis of existing control systems. Phil was EMA's PM for the project which developed the AWWA Cybersecurity Guidance tool.

Presentation Title: Practical Application of the NIST Framework in Oil & Gas Industry

Presenter: John deCraen, Director at Alvarez and Marsal, Forensic Technology & Cybersecurity.

Presenter(s) bio(s): John deCraen is an experienced computer forensic and cybersecurity expert with more than 18 years of experience as an Information Technology leader and a consultative expert. Mr. deCraen has been with A&M for the last twelve years where he led the cybersecurity examination of the world's largest oil and natural gas company and the nation's largest insurance company. Mr. deCraen's experience includes providing cybersecurity guidance to the offices of two sitting state Secretary's of State and a major Texas university. Mr. deCraen joined A&M after serving as the leader of the IT organization supporting a Fortune 100 finance firm.

Presentation Title: Practical Application of the NIST Framework in Water/Wastewater

Presenter: Bob George, Director of Cybersecurity and Network Infrastructure Services at Tetra Tech.

Presenter(s) bio(s): Bob is a Principal Network Security and Infrastructure Consultant with Tetra Tech, with over 28 years' experience in the design, management and support of IT and SCADA/PCS networks. Bob holds the CISSP certification, and has conducted network security assessments and designed and implemented cybersecurity controls for large and small utilities throughout the United States and



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Canada. He served as lead technical investigator and subject matter expert for the development of the AWWA Cybersecurity Guidance Tool.”

Presentation Overview/Synopsis: This webinar will provide the audience with a working understanding of the NIST Cybersecurity framework and how it can be applied to the water/wastewater industry. Additionally, it will focus on some of the more common features that oil and gas sector clients are successfully utilizing on their control systems along with current standards that are being promoted within the industry to enhance cybersecurity. Some of the topics discussed will include a comparison of NIST framework to the AWWA Cybersecurity Guidance, areas that water utilities can focus on when starting their NIST program, areas that will have a higher cost of implementation and with the need of additional personnel to manage, the importance of documenting threats within your SCADA networks, an understanding of legacy systems limitations that can be noted when writing your NIST program, as well as importance of allowing SCADA networks to work without affecting process control.

Area of Interest: NIST, AWWA, Water/Wastewater Industrial Control Systems, NIST SP 800-53, SP 800-82, AWWA G430, cybersecurity.

Presentation Questions for :

- What does NIST stand for? ANS: National Institute of Standards and Technology
- If beginning with NIST, what documents are good to start with? ANS: NIST SP 800-53 rev 4, NIST SP 800-82 rev2
- Where can I access the AWWA Cybersecurity Guidance Tool? The tool can be accessed from the AWWA website (<https://www.awwa.org/resources-tools/water-and-wastewater-utility-management/cybersecurity-guidance.aspx>)