WEAT WEBINAR TITLE

10/18/2017

Presentation Title: Security Best Practices for Unmanned Water Facilities

Presenter: Jon-Paul Dixon w/Shrader Engineering, Sean McMillan w/Jones|Carter, & Greg Olinger W/Coastal Water Authority

Presenter(s) bio(s):

Jon-Paul Dixon is an Associate and Project Manager at Shrader Engineering. He has been with the firm for 10 years starting as a Design Engineer. He studied at Prairie View A&M University, where he earned his B.S. in Electrical Engineering in 2007. Mr. Dixon's technical experience includes design and implementation of power distribution systems, instrumentation and controls, SCADA, and communications infrastructure. He is currently a member of Water Environment Association of Texas (WEAT), International Society of Automation (ISA), & National Society of Black Engineers (NSBE).

Sean McMillan is the Electrical Division Department Manager of Jones and Carter's Water Practice. His experience includes the electrical and instrumentation design of multiple wastewater treatment plants, lift stations, water plants, and utility projects. His work includes instrumentation design, electrical one-line development, process narrative writing, and SCADA development of PLC programming, HMI development, and automatic reporting. Sean is a member of the Water Environment Foundation, Water Environment Association of Texas and the International Society of Automation.

Greg Olinger
Greg Olinger is the Chief Engineer and Operations Manager of the Coastal Water Authority since August 2012. He earned his BS, in Civil Engineering from the U.S Military Academy, holds a MBA from University of Houston, and a Masters in Strategic Studies from the U.S. Amery War College. Greg oversees the development, design, and construction of new projects and the operations and maintenance of a 1 billion gallon per day raw water pump, conveyance, and distribution system. He manages a staff of 75 personnel responsible for the operations and maintenance of CWA's water resource infrastructure. Greg serves as a board member for the Society of American Military Engineers, Houston Post. He is a Colonel in the U.S. Army Reserves and lives in Cypress, TX.

Presentation Overview/Synopsis: At least three sentences describing the focus of the webinar.

The focus of this webinar will be to present Best Practices related to securing unmanned facilities. The webinar will cover recent events, state and federal requirements/recommendations, and general security practices implemented by the Coastal Water Authority. The webinar will touch on video surveillance methods, access control systems, communications, physical and cybersecurity.

Sean McMillan will initially present on recent events related to securing of unmanned facilities as well as hot topics for these sites. Jon-Paul Dixon will then present regulatory requirements by TCEQ, DHS and other agencies that should be considered. Subsequent to the presentations, a panel discussion will follow between Sean, Jon-Paul and Greg Olinger. Greg will provide input as to lessons learned through his involvement with Coastal Water Authority.

Area of Interest: Wastewater and/or Water

Presentation Questions:

1. What type of fence is required to be installed around treatment facilities?
   o Intruder-resistant fence
2. What are two of the five events as listed in TCEQ Ch. 290, that must be reported to the executive director if the event may negatively impact safe and adequate drinking water:
   o an unusual or unexplained unauthorized entry at property of the public water system;
   o an act of terrorism against the public water system;
   o an unauthorized attempt to probe for or gain access to proprietary information that supports the key activities of the public water system;
   o a theft of property that supports the key activities of the public water system; or
   o a natural disaster, accident, or act that results in damage to the public water system.
- Two conversational questions that will be used by the moderator during the Q&A session to prime our audience.
   o What are some benefits of having an integrated Video surveillance and access control system?
   o What are the some of the biggest challenges you face in maintaining the security system?