“PECO Substation SCADA & CIP Engineering”
Presented by
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Abstract: The safe and reliable operation of the Bulk Electric System (BES) depends increasingly on the protection of programmable devices that are susceptible to malicious cyber-attacks. In recent events, the power industry has been victimized by cyber-attacks leading FERC and NERC to standardize cyber protection requirements by developing the Critical Infrastructure Protection (CIP) standards. This presentation will highlight some key events, introduce the CIP standards, and speak to the effect on utilities of CIP version 5 standards. The presentation will also cover the role of Regional Entities in enforcing the standards, discuss approaches to maintaining compliance, and considerations for operational requirements.

Biography: Nathaniel Nichols is a Critical Infrastructure Protection (CIP) Engineer for PECO*, providing Subject Matter Expertise and supporting compliance with NERC CIP Standards. Nathaniel has over 5 years of engineering experience also encompassing roles in electrical power distribution including; planning, reliability, and project engineering and management. Nathaniel received his Masters of Engineering degree in Energy Systems Engineering from Lehigh University, and his B.S.E. degree from Messiah College. Nathaniel enjoys engaging in innovation efforts throughout PECO and Exelon, and he also volunteers with ASME’s FutureME team, and with his local church community. Nathaniel is happily married with two children residing near Philadelphia, and enjoys listening to podcasts and playing board games with friends in his spare time. Connect with Nathaniel through these communities:

ASME: http://community.asme.org/members/NathanielNichols/default.aspx
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*PECO is an electric and natural gas utility, delivering power to more than 1.6 million electric customers and more than 511,000 natural gas customers in southeastern Pennsylvania, USA. PECO is a subsidiary of Exelon Corporation.