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## Modern Technology Application – New and Emerging Concepts

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- Cyber Security for New and Operating Plants
- Utilities are spending over \$1B to meet cyber security requirements for plants
- Cyber security during new plant construction
- Cyber security procurement guidelines
- Sensors and Automated Technologies for New Plants
- Data management and automation can save money and optimize staff

## •Alarm Processing and Management

- New plants are exclusively digital  $\rightarrow$  40,000+ alarms
- How alarms are suppressed and displayed; impact on control room operators

## Internal Positioning Systems

- GPS-level location accuracy *inside* plant containment
- Supports many other enabling technologies, but biggest impact is radiation protection









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