

Invitation

Executive Briefing & Roundtable Dinner Meeting

Exploring Digital Upgrade of Instrumentation and Control Systems

June 16, 2011 from 7:00 to 9:00 PM

Nuclear Energy Insider

Power Uprate Conference

Charlotte, NC

This event is *by invitation only*.
You are invited to attend as our *guest*.

Linton Consulting
Insights for Industry and Government

Please join this special invitation dinner meeting to explore ...

Digital Upgrades to Instrumentation & Control in Major Safety-Related Systems

The Duke-Energy Oconee Experience

Is your organization considering digital upgrades to I&C systems?

Typical instrumentation and control systems in U.S. nuclear power plants are analog using 30-40 year-old technology. Some plants have experienced reduced productivity and reliability due to inadequacies in older I&C systems. Duke Energy's Oconee nuclear plant has been working to upgrade its nuclear plant safety systems to digital I&C for 10 years and is nearing a major completion milestone for its first unit.

While many nuclear plants in Europe have already been upgraded, and portions of several U.S. plants have done so, Oconee is the first plant in the U.S. to implement a comprehensive digital upgrade. The US-NRC has been slow to facilitate these upgrades due to concerns about cyber security. The Duke facility has been considered a pilot and being observed by a number of U.S. utilities and plants.

To explore the range of issues and questions regarding the opportunities and challenges of upgrading, we invite you to join us for a private dinner meeting with several subject experts who will help us explore the answers.

This Roundtable is being planned for 7:00 – 9:00PM on June 16 near the Charlotte Crown Plaza. This is an evening meeting following Day 1 of the *Nuclear Energy Insider Power Uprate Conference*.



The meeting will include dinner, a briefing and a moderated discussion in a question and answer format. We expect to limit the Roundtable meeting to 15 participants.

After the initial briefing, discussions will explore the Duke—Oconee experience and learnings you can take back to your organization.

Key Questions to Explore

- What are the pros and cons of upgrading safety-related systems to digital I&C?
- Is there an advantage to making these conversions in connection with power uprates or other maintenance and modernization projects?
- How have cyber security concerns been resolved?
- How long does such a program require and how disruptive is it to operations?
- How much does it cost?
- Who are the primary vendors and suppliers? What is the role of the licensee vs. vendors and contractors in a major digital upgrade?
- Other lessons learned.

Please R.S.V.P. as soon as possible. Bill Linton will contact you for advance input and to answer any questions you may have.

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