

Operating Plant Perspective

EPRI/NEI Digital I&C and
control Room Licensing

Issues Workshop

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The way energy **works**™

Current Status

Upgrades Implemented

- Feedwater Digital Controls
 - Significant reliability improvements
- PAMs W Common Q
- Plant Data Network Ethernet
- OSI PI - Data Historian
- GE Mark 6 Turbine Controls (in progress)

Future Status

- Upgrades planned
 - RPS/ESFAS/AFAS 2008
 - BOP Feedwater Controls
- Benchmarking
 - Manufacturers
 - Most digital upgrades focused on BOP
 - Regulatory Uncertainty
 - Meet Corporate return on Investment (ROI)
 - Regulated Utilities moving faster than merchant plants
- Long Term Vision
 - Digital Mods justified on project basis
 - Fleet Roadmap to digital under development

3

Challenges

- Obsolescence
- Strategy; do not want to be first unless absolutely necessary
 - Regulatory uncertainty
 - Lessons learned advantage
- International Standards vs. Domestic Standards
- Risk based goals vs. deterministic standard requirements compete against each other
 - Deterministic standard may require redundancy that adds to complexity w/o a clear safety benefit.

4