

MEETING AGENDA

December 21, 2006 Public Meeting

Between The Nuclear Regulatory Commission (NRC)

Digital Instrumentation and Control (I&C) Steering Committee and the

Nuclear Energy Institute (NEI) Digital I&C and

Human Factors Working Group (WG)

Public Meeting Opening	Tanya Mensah, NRC
Opening Remarks/Introductions	Jack Grobe, NRC
Objectives of the NRC Digital I&C Steering Committee	Jack Grobe, NRC
Objectives of the Industry Digital I&C and Human Factors WG	NEI
Discussion of Current I&C Issues	Pat Hiland NEI
Discussion of Priorities/Schedules for Activities	Jack Grobe, NRC NEI
Address Public Questions/Comments	Jack Grobe, NRC
Summary and Close	NEI Jack Grobe, NRC



Digital Instrumentation and Control

Key Topics

Highly Integrated Control Room

- The Issues:
 - Inter-channel communications between safety channels
 - Communications between safety and non-safety systems
 - Use of non-safety related controls and indications for accident response
 - Human Factors and minimum inventory
- NRC Actions
 - Clarify acceptance criteria
 - Enhance guidance and procedures

Diversity and Defense-in-Depth

- The Issues:
 - Common-cause failures due to software
 - Common hardware failures
 - Combining echelons of defense
 - Complex process
- NRC Actions
 - Clarify strategies (NUREG/CR-6303)
 - Clarify regulatory positions
 - Supplement guidance and procedures

Cyber Security

- The Issues:
 - Potential for increased vulnerabilities inherent to digital systems
 - RG 1.152 issued in January 2006
 - NRC has accepted NEI-04-04
- NRC Actions
 - Vulnerability research
 - Provide details on how to implement cyber assessments

Risk-informing Digital I&C

- The Issues:
 - I&C licensing process is deterministic
 - No quantitative methods for assessing digital system safety
- NRC Actions
 - Policy encourages risk-informing license applications
 - Establish regulatory guidance