



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

May 19, 2009

MEMORANDUM TO: Lois M. James, Chief  
Plant Licensing Branch III-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

FROM: G. Edward Miller, Project Manager  
Plant Licensing Branch I-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF APRIL 28-29, 2009, CATEGORY 2 PUBLIC MEETING  
REGARDING DEVELOPMENT OF INTERIM STAFF GUIDANCE ON  
THE DIGITAL INSTRUMENTATION AND CONTROL SYSTEM  
UPGRADE LICENSING PROCESS

On March 24, 2009, the Nuclear Regulatory Commission (NRC) staff conducted a Category 2 public meeting to discuss the development of guidance for the staff in the Office of Nuclear Reactor Regulation regarding the licensing process for digital instrumentation & control (I&C) upgrades. A notice for this meeting was issued on April 15, 2009, and is available in the Agencywide Documents Access and Management System under Accession No. ML090890717. The attendance sheet is included as Enclosure 1 to this memorandum.

The purpose of this meeting was to foster an open discussion of the format, technical content, and process of the draft interim staff guidance.

The first day of the meeting was opened by a discussion of stakeholder comments on the Software Design Process review area. The majority of comments focused on the need for additional clarity with regard to what information the NRC staff would need to confirm compliance with applicable standards. Additionally, it was suggested that a crosswalk be developed that connected the document or information provided with the NRC staff's determination that a specific clause of a standard is met.

During this discussion, a question was raised regarding the potential to use license conditions to govern successful performance of the factory acceptance testing after issuance of the amendment. In response, I reiterated the NRC staff's position that, it does not believe that use of license conditions in this manner is appropriate because the information obtained during the factory acceptance testing is necessary to the NRC staff's regulatory decision.

Action items for the day were summarized and the meeting adjourned for the day.

The second day of the meeting was opened by a discussion of stakeholder comments on all review areas. As with the comments provided for the Software Design Process review area, the

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majority of comments focused on the need for additional clarity with regard to what information the NRC staff would need to confirm compliance with applicable standards.

The remainder of the meeting was spent populating the stakeholder comment matrix with NRC responses.

At the conclusion of these discussions, the meeting was opened for public comments. No public comments were received.

Please direct any inquiries to me at 301-415-2481, or [ed.miller@nrc.gov](mailto:ed.miller@nrc.gov).

A handwritten signature in black ink that reads "G. Edward Miller". The signature is written in a cursive style with a large initial "G" and "M".

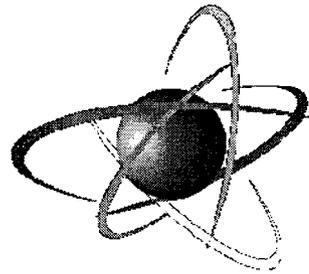
G. Edward Miller, Project Manager  
Plant Licensing Branch I-2  
Division of Operating reactor Licensing  
Office of Nuclear Reactor Regulation

Enclosures:

1. List of Attendees
2. NRC Presentation Slides







U.S. NRC

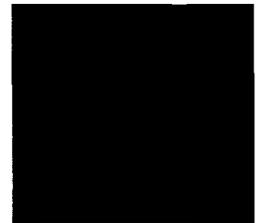
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*Protecting People and the Environment*

# Digital I&C Licensing Process Task Working Group-6

April 28-29, 2009

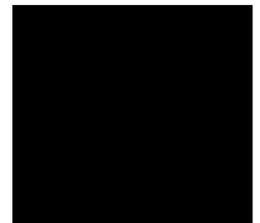
Ed Miller, Project Manager  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

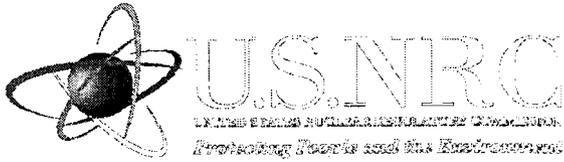




# Digital I&C Licensing Process

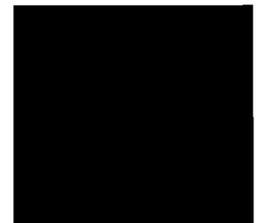
- Agenda (April 28)
  - Opening Remarks
  - Discussion of Software Design Process
  - Break
  - NEI Presentation
  - Continued discussion of Software Design Process
  - Summary of Action Items
  - Public Comments

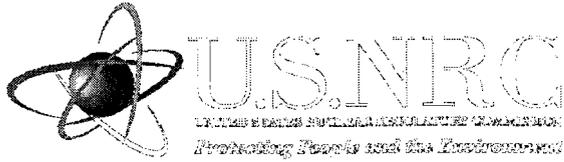




# Digital I&C Licensing Process

- Agenda (April 29)
  - Discussion of Additional Areas
  - Discussion of Comment Matrix





# Digital I&C Licensing Process

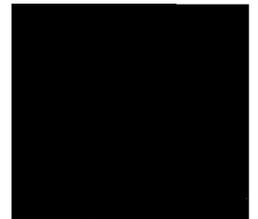
- Software Design Process





# Digital I&C Licensing Process

- Public Comments





# Digital I&C Licensing Process

- Agenda (April 29)
  - Summary of Previous Day
  - Discussion of Other Review Areas
  - Break
  - Discussion of Comment Matrix
  - Continued discussion of Review Areas
  - Summary of Action Items
  - Public Comments

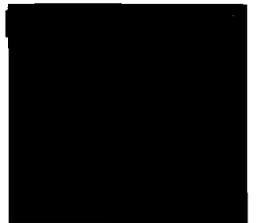




# Digital I&C Licensing Process

- Review Areas

- Hardware Architecture
- Hardware Design Process and Quality Control
- Communications
- Cyber Security
- Software Architecture
- Software Design Process
- System Qualifications
- Diversity and Defense-in-Depth
- IEEE 603 Compliance
- IEEE 7-4.3.2 Compliance
- System, Hardware, Software, and Methodology Modification
- Technical Specifications





# Digital I&C Licensing Process

- Discussion of NEI Comments

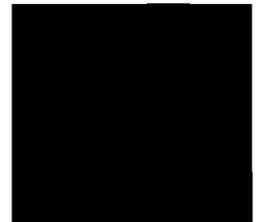




# Digital I&C Licensing Process

- **Schedule**

- Conference Call, May 12, 2009 to discuss status.
- Public Meeting, May 27, 2009, to discuss comments on draft process and review areas & Present ~2 review areas.
  - Meeting date moved to Wednesday to accommodate Memorial Day.
- Conference Call, June 9, 2009 to discuss status.
- Public Meeting, June 23, 2009, to discuss outstanding issues on previous review areas & Present remaining review areas.
  - Meeting date moved to Wednesday to accommodate Memorial Day.





# Digital I&C Licensing Process

- Public Comments



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*/ra/*

G. Edward Miller, Project Manager  
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Division of Operating reactor Licensing  
Office of Nuclear Reactor Regulation

Enclosures:

1. List of Attendees
2. NRC Presentation Slides

**DISTRIBUTION:**

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 RidsRgn1MailCenter Resource  
 RidsRgn3MailCenter Resource  
 LPLI-2 R/F  
 RidsAcrcAcnw\_MailCTR Resource  
 RidsOgcRp Resource  
 JAdams, EDO, Region II  
 RidsPMGMiller Resource  
 RidsNrrDorlLp3-1 Resource  
 TFredette, NRO/DE  
 AHowe, NRR/DORL

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NAME	GEMiller	ABaxter	LJames
DATE	5/14/09	5/15/09	5/19/09

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