



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

January 26, 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

A handwritten signature in black ink, appearing to read "G. Edward Miller", is written over the typed name in the "FROM:" field.

SUBJECT: SUMMARY OF JANUARY 6, 2009, CATEGORY 2 PUBLIC MEETING
REGARDING DEVELOPMENT OF INTERIM STAFF GUIDANCE ON
THE DIGITAL INSTRUMENTATION AND CONTROL SYSTEM
UPGRADE LICENSING PROCESS

On January 6, 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 (NRR) regarding the licensing process for digital instrumentation & control (I&C) upgrades. A notice for this meeting was issued on December 18, 2008, and is available in the Agencywide Documents Access and Management System under Accession No. ML083520584. The attendance sheet is included as Enclosure 1 to this memorandum.

The purpose of this meeting was to foster an open discussion of the membership of the NRC and industry participants, format for further discussions, and the initial concept for the guidance.

The meeting was opened by a discussion of the background and objectives of the guidance. A conceptual overview of the interim staff guidance was given where the application and review process would have multiple phases where the NRC staff would receive the information available, recognizing that some currently unavailable information would be forthcoming from the licensee. Additionally, this process would allow for interim feedback to reduce regulatory uncertainty.

The membership of the NRC participants was given in the presentation slides, while the industry participants were established during the discussion. The industry representatives were determined to be Robert Gill, Duke Energy; Scott Patterson, ORG; Gordon Clepton, Nuclear Energy Institute; and Michael Shopman, NEI. The presentation slides are included as Enclosure 2 to this memorandum.

Following the discussion of the participants, the process for future meetings was discussed. It was agreed that public meetings would be held at monthly intervals on the fourth Tuesday of each month. Prior to these meetings, the NRC staff would provide working drafts of selected portions of the guidance. The industry representatives would then be able to submit written comments, to be discussed, prior to the meeting. Additionally, these meetings would be used to resolve any additional outstanding discussion topics that had previously been tabled.

At the conclusion of these discussions, the meeting was opened for public comments. Following a brief discussion of the comments, the meeting was adjourned.

Enclosures:

1. List of Attendees
2. Presentation Slides

Sign In Sheet

DATE: January 6, 2009

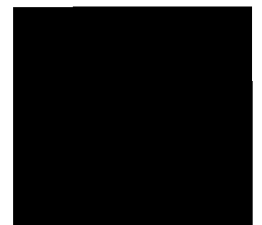
Discussion of Draft Guidance on Digital Instrumentation & Controls

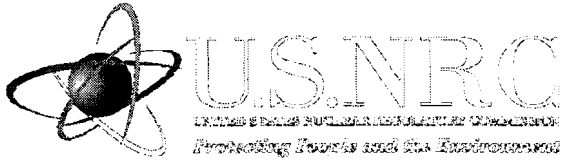
Name	Organization
Stewart Bailey	NRC/NRR/DE
Michael Wiwel	PSEG
Thomas Fredette	NRC/NRO/DE
Bill Kemper	NRC/NRR/DE
Allen Howe	NRC/NRR/DORL
Jerry Wermiel	NRC/NRR/DE
Patricia Campbell	GE Hitachi
Gordon Clefton	NEI
Ken Carlson	Enercon
Tom Hayes	Westinghouse
Kimberly Keithline	NEI
Lois James	NRC/NRR/DORL
Ed Miller	NRC/NRR/DORL
Additional Participants Via Phone	



Digital I&C Licensing Process Task Working Group-6

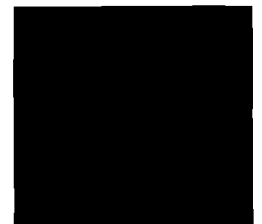
Ed Miller, Project Manager
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

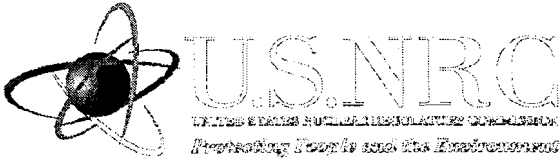




Digital I&C Licensing Process

- Agenda
 - Objectives of ISG-6 and Introduction of Participants
 - Format of ISG-6
 - Staffing
 - Schedule
 - Public Comments

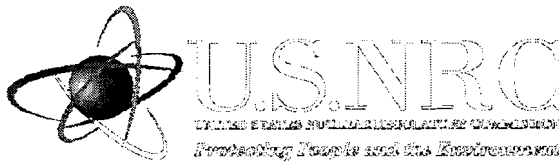




Digital I&C Licensing Process

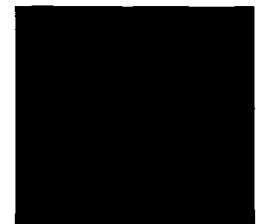
- Objectives of ISG-6
 - Clearly defined licensing process
 - Expectations for documentation
- Introduction of Participants





Digital I&C Licensing Process

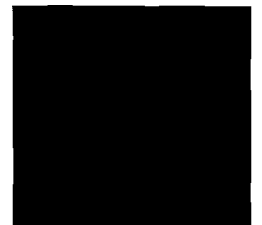
- Format of ISG-6
 - Introduction
 - Purpose
 - Licensing Process
 - Process Overview
 - Initial Application
 - Continued Review and Audit
 - Implementation and Inspection
 - Review Areas
 - Scope of Review
 - Information to be Provided
 - Regulatory Evaluation
 - Technical Evaluation
 - Conclusion
 - Appendices (Example Formats)

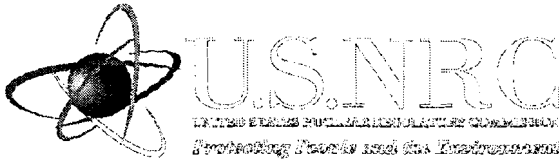




Digital I&C Licensing Process

- Proposed Review Areas
 - Defense-in-Depth & Diversity
 - Hardware Design & Single Failure
 - System Modifications & Configuration Control
 - Data Communication
 - Software Design & Development
 - Verification & Validation
 - Cyber Security
 - Equipment Qualification
 - Human Factors
 - Commercial Dedication of Computer-Based Systems
 - Test and Calibration
 - Technical Specifications





Digital I&C Licensing Process

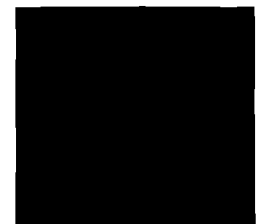
- Staffing

- NRC

- Lois James, Lead, TWG-6, NRR
 - Stewart Bailey, DI&C Deputy Director, NRR
 - Jared Wermiel, Senior Level Advisor for I&C, NRR
 - William Kemper, Chief, I&C Branch, NRR
 - Ed Miller, Project Manager, Licensing, NRR

- Industry

- Licensee Point of Contact
 - NEI Point of Contact





Digital I&C Licensing Process

- Proposed Schedule
 - Meeting, Late January, 2009 to discuss draft process and 1~2 draft review areas
 - Meeting, February, 2009, to discuss comments on draft process and review areas & Present 2~4 additional draft review areas
 - Written licensee comments to be provided 2 weeks prior to meetings
 - Meeting, March, 2009, to discuss outstanding issues on previous review areas & Present 2~4 additional draft review areas.



Digital I&C Licensing Process

- Public Comments



At the conclusion of these discussions, the meeting was opened for public comments. Following a brief discussion of the comments, the meeting was adjourned.

Enclosures:

1. List of Attendees
2. Presentation Slides

DISTRIBUTION:

PUBLIC	RidsRgnlMailCenter Resource
LPLI-2 R/F	JWermiel, NRR/DE
RidsAcrsAcnw_MailCTR Resource	SBailey, NRR
RidsOgcRp Resource	RidsNrrPMMChernoff
PMNS Resource	SWilliams, EDO, Region I
RidsNrrDorlLpl1-2 Resource	RidsPMGMiller Resource
RidsNrrLAABaxter Resource	RidsNrrDorlLpl3-1 Resource
CTucci, NRR	TFredette, NRO/DE
WKemper, NRR/DE	AHowe, NRR/DORL

ADAMS Accession No. ML090090186

OFFICE	NRR/LPLI-2/PM	NRR/LPLI-2/LA	DI&C/DD	LPLIII-1/BC
NAME	GEMiller	ABaxter	SBailey	LJames
DATE	1/21/09	1/21/09	1/21/09	1/26/09

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