

February 26, 2010

MEMORANDUM TO: Tim Frye, Branch Chief  
Construction Allegations & Enforcement Branch  
Division of Construction Inspection  
& Operational Programs  
Office of New Reactors

FROM: Kevin Mattern, General Scientist */RA/*  
Construction Allegations & Enforcement Branch  
Division of Construction Inspection  
& Operational Programs  
Office of New Reactors

PARTICIPANTS: Public, STP Nuclear Operating Company, and NRC Staff

SUBJECT: SUMMARY OF FEBRUARY 2, 2010, CATEGORY 2 MEETING WITH  
STP NUCLEAR OPERATING COMPANY (STP) AND THE GENERAL  
PUBLIC TO DISCUSS NRC'S INSPECTION STRATEGIES AND STP'S  
DESIGN SCHEDULE TO SUPPORT PILOT INSPECTION OF THE  
SOUTH TEXAS PROJECT UNITS 3 & 4 I&C DESIGN ACCEPTANCE  
CRITERIA.

On February 2, 2010, a public meeting was held between the U.S. Nuclear Regulatory Commission's (NRC) Construction Assessment, Enforcement and Allegations Branch (CAEB) of the Division of Construction Inspection and Operational Program (DCIP) in the Office of New Reactors (NRO), STP Nuclear Operating Company (STP), and the general public. The meeting was held at Two White Flint North, 11545 Rockville Pike in Rockville, Maryland. The purpose of the meeting was two-fold: 1) to discuss the on-going development of inspection strategies to support pilot inspection of Design Acceptance Criteria (DAC) for the South Texas Project Units 3 & 4 digital I&C systems; and 2) to discuss the STP digital I&C DAC schedule. The second portion of the meeting was closed to the public.

The NRC staff opened the meeting by discussing and summarizing the actions to date of the DAC Resolution Working Group. The Working Group was established in November, 2009 to develop and validate a methodology for inspection of digital I&C, piping design and human factors engineering DAC as part of ITAAC inspection program, with the primary focus on digital I&C inspection to be demonstrated in a test case scenario (pilot) for the South Texas Project Units 3 & 4 design in 2010. Key elements of the Working Group activities were highlighted during the discussion, including development of a process framework, DAC inspection strategies, and planned development of a new DAC inspection procedure.

CONTACT: Kevin Mattern, NRO/DCIP/CAEB  
301-415-6622

The NRC staff provided an overview presentation of I&C DAC inspection strategies, which are currently being developed in a series of Inspection Strategy Documents. The presentation detailed that Strategy Documents generally mirror the digital system/software development lifecycle found in the Standard Review Plan, Branch Technical Position 7-14 (Guidance for Review of Digital I&C Systems), are intended to support Lifecycle Phase-oriented inspection, and provide a technical basis for subsequent development of a new ITAAC Inspection Procedure (IP 65000 series) for I&C DAC. The Strategy Documents incorporate industry standards, regulatory guidance and staff expertise, and feature descriptions, key attributes, inspection techniques, inspection rationale, and inspection resources for each of the Lifecycle Phases. During the discussion, it was noted that there was no acceptance criteria explicitly identified as a feature of the Strategy Documents. The NRC staff stated that acceptance criteria would be prominently identified in the Strategy Documents as they are finalized. Representatives from STP presented a schedule for I&C DAC development and availability. Based on the schedule, NRC staff proposed a two-part pilot inspection. The first inspection would target the high level programmatic planning elements for digital hardware/software development, and the second inspection would target digital design project Planning Phase implementation elements that will be completed later in 2010. Conducting both a programmatic and implementation pilot inspection would enable NRC staff to better gauge effectiveness of the inspection methodology in a practical environment.

Planned activities leading up to the pilot inspection were briefly discussed, including a Tabletop Validation exercise, and the logistics of conducting the actual inspection. Details of these topics were tabled for a future public meeting.

Members of the public were in attendance and Public Meeting Feedback forms were distributed with none returned or submitted according to standard protocols. Please direct any inquiries to Kevin Mattern at 301-415-6622, or [Kevin.Mattern@nrc.gov](mailto:Kevin.Mattern@nrc.gov).

A list of meeting attendees is attached.

Enclosures:  
As stated

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OFFICE	NRO/DCIP/CAEB	NRO/DCIP/CAEB:BC
NAME	K. Mattern	T. Frye
DATE	02/24/10	02/26/10

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NEI 08-02 "Corrective Action Processes for New Nuclear Plants under Construction" Workshop  
**February 2, 2010**  
**Location: Two White Flint North, Rockville, MD**  
**Meeting Attendees**

Christina Antonesca	NRC
Skip Butler	General Electric (call in)
Ryan Craffey	NRC
Kyle Dittman	STPNOC
Tom Fay	TANE
Tom Fredette	NRC
David Herrell	MPR Associates
Jan Ikeda	TANE
Bill Kemper	NRC
Hulbert Li	NRC
Earl Libby	NRC
Erick Martinez	NRC
Adrian Muniz	NRC
Michael Murray	STPNOC
Paul Pieringer	NRC
Rick Staffel	NRC
George Strambock	WEC
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(Revised 1/19/2010)

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