NRR-DMPSPEm Resource

From: Richards, Drew <amrichards@STPEGS.COM>
Sent: Thursday, April 4, 2019 3:37 PM
To: Miller, Ed
Cc: Gonzales, Rafael; Albaaj, Ali
Subject: [External_Sender] Handout for STP public meeting next week
Attachments: South Texas Project-presubmittal-CFRP-Final.pdf

Ed,

See attached for the STP handout for next week's public meeting. I provided a .pdf version – let me know if you prefer a PowerPoint file. Note that there is no proprietary information in the handout.

Thanks,
drew

Hearing Identifier: NRR_DMPS
Email Number: 907

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Subject: [External_Sender] Handout for STP public meeting next week
Sent Date: 4/4/2019 3:37:28 PM
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From: Richards, Drew

Created By: amrichards@STPEGS.COM

Recipients:
"Gonzales, Rafael" <rjgonzales@STPEGS.COM>
Tracking Status: None
"Albaaj, Ali" <ajalbaaj@STPEGS.COM>
Tracking Status: None
"Miller, Ed" <Ed.Miller@nrc.gov>
Tracking Status: None

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South Texas Project

Pre-submittal meeting to discuss the use of Carbon Fiber Reinforced Polymer in STP's Essential Cooling Water system

Agenda

- Purpose of Today's Meeting
- Scope of Proposed Alternative
- Technical Basis (Public)
- Precedents
- Time Frame
- Questions

Purpose

- South Texas Project Nuclear Operating Company intends to submit an inservice inspection alternative request in 2019 for the use of a Carbon Fiber Reinforced Polymer (CFRP) composite repair system for internal structural upgrade of selected safety related piping systems.
- Today's meeting serves as a pre-submittal discussion of the scope and content of the forthcoming alternative request.

Scope of Proposed Alternative Request

- **Piping included:** Essential Cooling Water piping
- **Requested date of approval: January 2020**
- **American Society of Mechanical Engineers (ASME) Code Class:** ASME Code Class 3

Scope of Proposed Alternative Request

- Applicable Code Edition and Addenda
  - ASME Section XI, “Rules for Inservice Inspection of Nuclear Power Plant Components”, 2004 Edition No Addenda
- Reason for Request
  - The use of CFRP composite repair on piping for ASME applications is a recent technology improvement for aluminum bronze piping during a repair/replacement activity. STPNOC is therefore submitting an ISI Alternative Request for NRC approval to use CFRP material for the repair of pipe sections.

Technical Basis

- NEI Template for Relief Requests
- Material Inspection and Controls
- Design Approach for CFRP Lining
- CFRP installation requirements
- Examination and Testing
- In-service Inspection

Precedents

- Surry Power Station Units 1 and 2 were approved for an inservice inspection alternative request to use CFRP composite repair system for internal structural upgrades of safety related piping.
- Differences between the Surry and STP submittals

Time Frame

- STP Relief Request submittal – estimated July 2019
- Requested approval date from the NRC – January 2020

Questions