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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 From:
 Richards, Drew

Created By: amrichards@STPEGS.COM

Recipients:

"Gonzales, Rafael" <rjgonzales@STPEGS.COM>

Tracking Status: None

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Tracking Status: None

"Miller, Ed" <Ed.Miller@nrc.gov>

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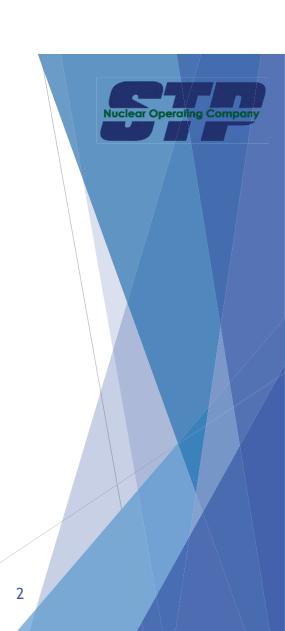


South Texas Project

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





- ➤ 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



- 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