



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

November 4, 2019

MEMORANDUM TO: Kerri A. Kavanagh, Chief
Quality Assurance and Vendor Inspection Branch
Division of Reactor Oversight
Office of Nuclear Reactor Regulation

FROM: Dong H. Park, Reactor Operations Engineer /RA/
Quality Assurance and Vendor Inspection Branch
Division of Reactor Oversight
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF OCTOBER 18, 2019, CLOSED MEETING WITH
FRAMATOME INC. REGARDING EVALUATION OF DEVIATIONS
FROM TECHNICAL STANDARDS

On October 18, 2019, a closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Framatome Inc. (Framatome) to discuss the Title 10 of the *Code of Federal Regulations* (10 CFR) Part 21 evaluation related to the post weld heat treatment (PWHT) deviation. Framatome presented background, discovery, experimental results and analyses for the welds affected in large components in three U.S. plants. The plants include Millstone (pressurizer), Prairie Island 2 (two U-tube steam generators) and Three Mile Island (two once-through steam generators).

Through a combination of numerical analyses and mock-up testing, Framatome concluded that PWHT of the welds in question may have been outside the required American Society of Mechanical Engineers (ASME) code limits per 10 CFR 50.55a. Using historical data, recently generated data, and analyses, Framatome conservatively demonstrated that sufficient margin to structural failure exists. Because of these results, Framatome concluded that the deviation was not a defect and not reportable under 10 CFR Part 21. Framatome is conducting additional experimental and numerical work to verify that the analysis assumptions are conservative. Any non-conservative results will be addressed through the coordination between Framatome and the affected licensees via their respective corrective action program.

Based on this meeting and a review of the Part 21 evaluation, the NRC staff concluded there is no substantial safety hazard, and Framatome's assessment is appropriate. The NRC staff will

Docket No. 99901300

Enclosure: List of Attendees

CONTACT: Dong Park, NRR/DRO
(301) 415-0001

SUBJECT: SUMMARY OF OCTOBER 18, 2019, CLOSED MEETING WITH
FRAMATOME INC. REGARDING EVALUATION OF DEVIATIONS FROM
TECHNICAL STANDARDS Dated: November 4, 2019

follow up with a review of each licensee's operability determination and in-service inspection results for the affected components under the baseline inspection program.

The list of attendees is enclosed. The Framatome presentation material can be found in the Agencywide Documents Access and Management System at Accession No. ML19298B971 (proprietary).

DISTRIBUTION:

KKavanagh, NRR

PPrescott, NRR

DRudland, NRR

SBloom, NRR

KManoly, NRR

RGuzman, NRR

RidsNrrOd

RidsNrrDro

RidsNrrDrolqvb

RidsResOd

RidsOgcMailCenter

victor.montalbano@framatome.com

ADAMS Accession No.: ML19298C093

NRC-001

OFFICE	NRR/DRO/IQVB	NRR/DRO/IQVB	NRR/DRO/IQVB
NAME	DPark	PPrescott	KKavanagh
DATE	10/25/2019	11/4/2019	11/4/2019

OFFICIAL RECORD COPY

List of Attendees

**Meeting with Framatome Regarding Evaluations of Deviations of Weld Requirements
from Technical Standards**

October 18, 2019

Name	Organization
Chris Miller	NRC
Kerri Kavanagh	NRC
Paul Prescott	NRC
Dong Park	NRC
Dave Rudland	NRC
Kamal Manoly	NRC
Chakrapani Basavaraju	NRC
Kaihwa Hsu	NRC
Victor Montalbano	Framatome
Jeff Fleck	Framatome
Brian Haibach	Framatome
Ashok Nana	Framatome
Tim Wiger	Framatome
Gary Peters	Framatome
Jeff Enneking	Framatome
Matt Adams	Dominion
Marty Murphy	Prairie Island
Aaron Chladil	Prairie Island
Francois Roch	Framatome
Fabien Ducrozet	Framatome
Steve Bloom*	NRC
Edison Fernandez*	NRC
Justin Fuller*	NRC
Mel Gray*	NRC
Richard Guzman*	NRC
Brian Derreberry*	Dominion
Dave Hinspater*	Dominion
Marc Hall*	Dominion
Dana Knee*	Dominion

*Participated via Conference Bridge

Enclosure