

January 22, 1997

LICENSEE: Union Electric Company

FACILITY: Callaway Plant, Unit 1

SUBJECT: MEETING WITH UNION ELECTRIC COMPANY REGARDING PROPOSED TECHNICAL SPECIFICATION AMENDMENT TO ALLOW ELECTROSLEEVEING OF STEAM GENERATOR TUBES IN THE CALLAWAY PLANT STEAM GENERATORS (TAC M95204)

On January 15, 1997, a meeting was held with Union Electric Company (UE) to discuss UE's proposed Technical Specification (TS) amendment that would allow electrosleeveing of the steam generator tubes at the Callaway Plant. The electrosleeveing process was developed by Framatome Technologies, Inc. (FTI), and is discussed in Topical Report BAW-10219P, Rev. 1, "Electrosleeveing Qualification for PWR Recirculating Steam Generator Tube Repair," dated March 1996.

The primary focus of the meeting was the non-destructive examination (NDE) techniques that will be used after installation of electrosleeves in steam generators. During the meeting, representatives from FTI presented new information in the area of NDE in support of the staff's review of the proposed TS amendment.

Attachment 1 is the list of attendees. Attachment 2 is the nonproprietary version of the handout material presented by FTI in the meeting.

ORIGINAL SIGNED BY

Kristine M. Thomas, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Docket No. 50-483

Attachments: 1. List of Attendees
2. Meeting slides
(nonproprietary version)

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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SUBJECT: MEETING WITH UNION ELECTRIC COMPANY REGARDING PROPOSED TECHNICAL SPECIFICATION AMENDMENT TO ALLOW ELECTROSLEEVEING OF STEAM GENERATOR TUBES IN THE CALLAWAY PLANT STEAM GENERATORS (TAC M95204)

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Kristine M. Thomas

Kristine M. Thomas, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
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2. Meeting Slides
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cc w/atts: See next page

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ATTENDEES AT MEETING ON JANUARY 15, 1997

ELECTROSLEEING OF STEAM GENERATOR TUBES

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NRC

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G. Hornseth
C. Beardslee
T. Sullivan
S. Coffin
R. Hermann
J. Muscara
A. Dromerick
M. McNeil

FRAMATOME TECHNOLOGIES

S. Wilson
M. Key
B. Borsum
J. Galford
J. Helme
C. England
R. Pugh

MAINE YANKEE ATOMIC POWER

C. Eames

DUQUESNE LIGHT

R. Bologna

ONTARIO HYDRO TECHNOLOGIES

G. Palumbo
P. Lichtenberger

PSE&G

L. Moaba

BGE

G. Tesfaye
C. Smith

ComED

D. Saccomander
J. Blomgren

PG&E

D. Kim

**Electrosleeve™ Review Meeting
Non-Destructive Examination
January 15, 1997**

**Callaway Plant
Docket No. 50-483
TAC No. M95402**

**Reference
USNRC RAI, December 17, 1996
FTI Topical BAW-1021P, Rev. 01, March 1996**

NON-PROPRIETARY

**Framatome Technologies, Inc.
Integrated Nuclear Services
155 MillRidge Road
Lynchburg, VA 24502**



Electrosleeve™ Review Non-Destructive Examination Agenda

- **Introduction**
- **Structural Plugging Criteria**
 - Sleeve/Tube In-Service Criteria
 - Installation Criteria
- **NDE Qualification Approach**
 - Types of In-Service Degradation
 - Plugging Criteria Approach
- **UT System Description**
 - System Features
 - Probe Features
- **UT Qualification**
 - Qualification Samples
 - Qualification Results
 - Beam Redirection
 - Installation Defects
- **Wrap-Up**

Summary of NDE Questions (12/17/96 RAI)

- **Schedule for ECT Completion?**
- **Describe the Tube (Sleeve) Plugging Criteria**
- **Schedule for UT Qual Completion?**
 - Using Tubes with Real SCC
- **Plating Defects**
 - Describe Ability of NDE to Detect
 - Describe Acceptance Criteria
- **Which NDE Technique Will Be Used?**
 - ECT or UT
- **Describe UT Beam Redirection Effects On**
 - Ability to Detect
 - Determining Defect Size
 - Determining Sleeve Wall
- **What is the Plugging Criteria Direction?**
 - Depth Sizing, or
 - Tube vs Sleeve Region Indications, or
 - Other