

# **Electrosleeve™**

## **UT-360® History**

- **Electrosleeve™ Ultrasonic Proof of principal - 1994**
- **FTI selects Ultrasonic Testing (UT) as main NDE Technique for Electrosleeve™ Repair - 1997**
- **NRC Inspection Requirements Defined - 1998**
- **EPRI Industry Peer Review for NDE Techniques for ES - 1999 & 2000**
- *Many other meetings concerning NDE issues.*

6/6/01



# **Electrosleeve™ UT-360®**

## **Techniques**

- **Total of Seven (7) Techniques:**
  - **UT-360® Electrosleeve™ Disbond Analysis Procedure**
  - **UT-360® Inner Diameter Profilometry Analysis Procedure**
  - **UT-360® Outer Diameter Pit Analysis Procedure**
  - **UT-360® Electrosleeve™ Inner Diameter Pit Analysis Procedure**
  - **UT-360® Electrosleeve™ Outside Diameter Pit Analysis Procedure**
  - **UT-360® Crack Detection and Extent Sizing Analysis Procedure**
  - **UT-360® Crack Depth Sizing Analysis Procedure**

# Electrosleeve™ UT-360®

## Peer Review (continued)

- ***August 2000 Peer Review Details:***
- **Techniques Presented (ISI):**
  - **UT-360® Crack Detection and Extent Sizing Analysis Procedure**
- **Peer Review Members:**
  - **EPRI, LMT, Tennessee Valley Authority, Dominion Generation, AmerenUE - Callaway, Rochester Gas & Electric - Ginna, Westinghouse/Westdyne, FTI**

**Electrosleeve™ UT-360®**

**Peer Review**

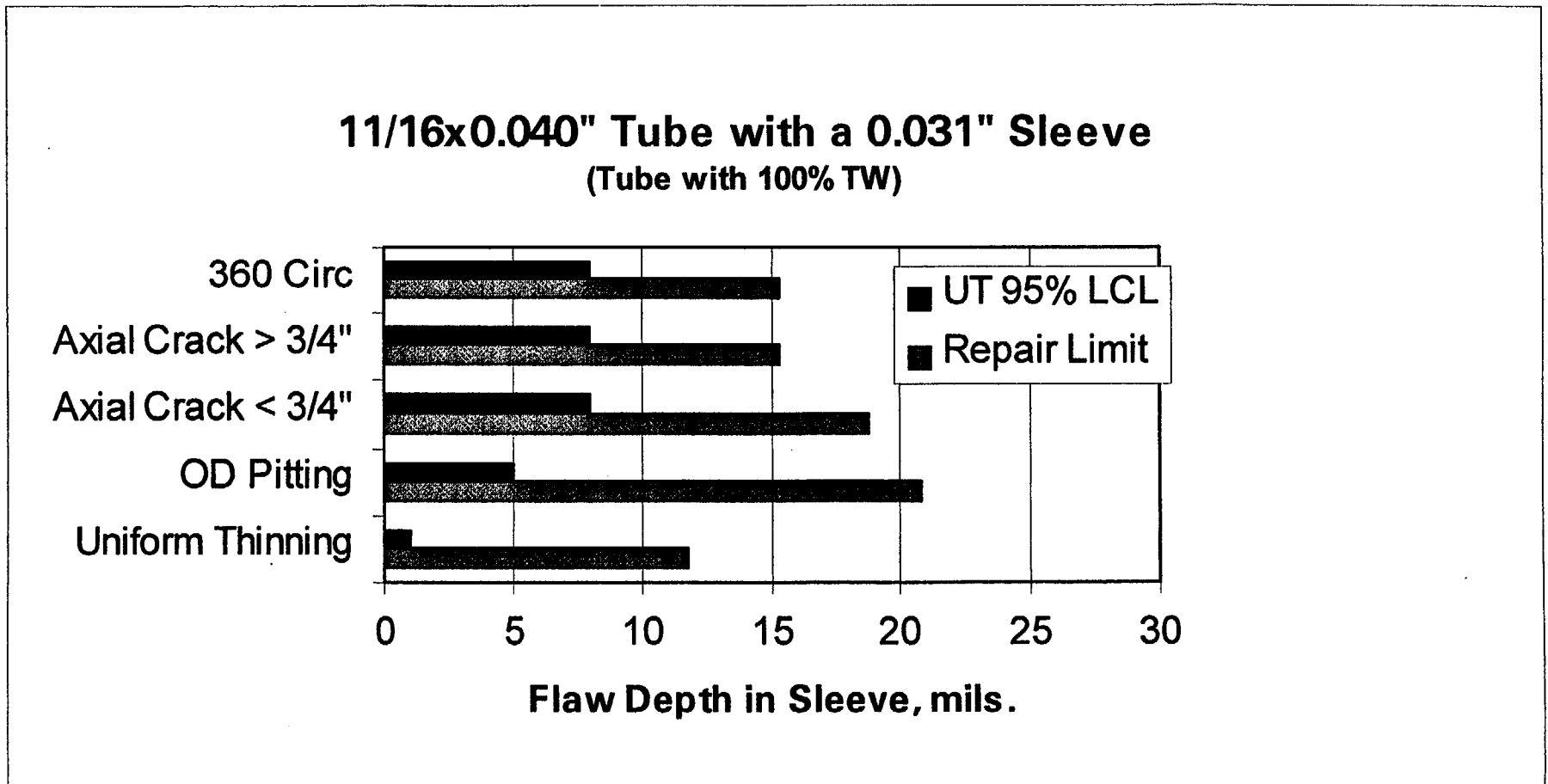
**RESULTS**

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 **FRAMATOME ANP**

# Electrosleeve™ UT-360®

Table 12.4.4 BAW-10219P Rev 04



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**Electrosleeve™ UT-360®**

**Callaway**

**RESULTS**

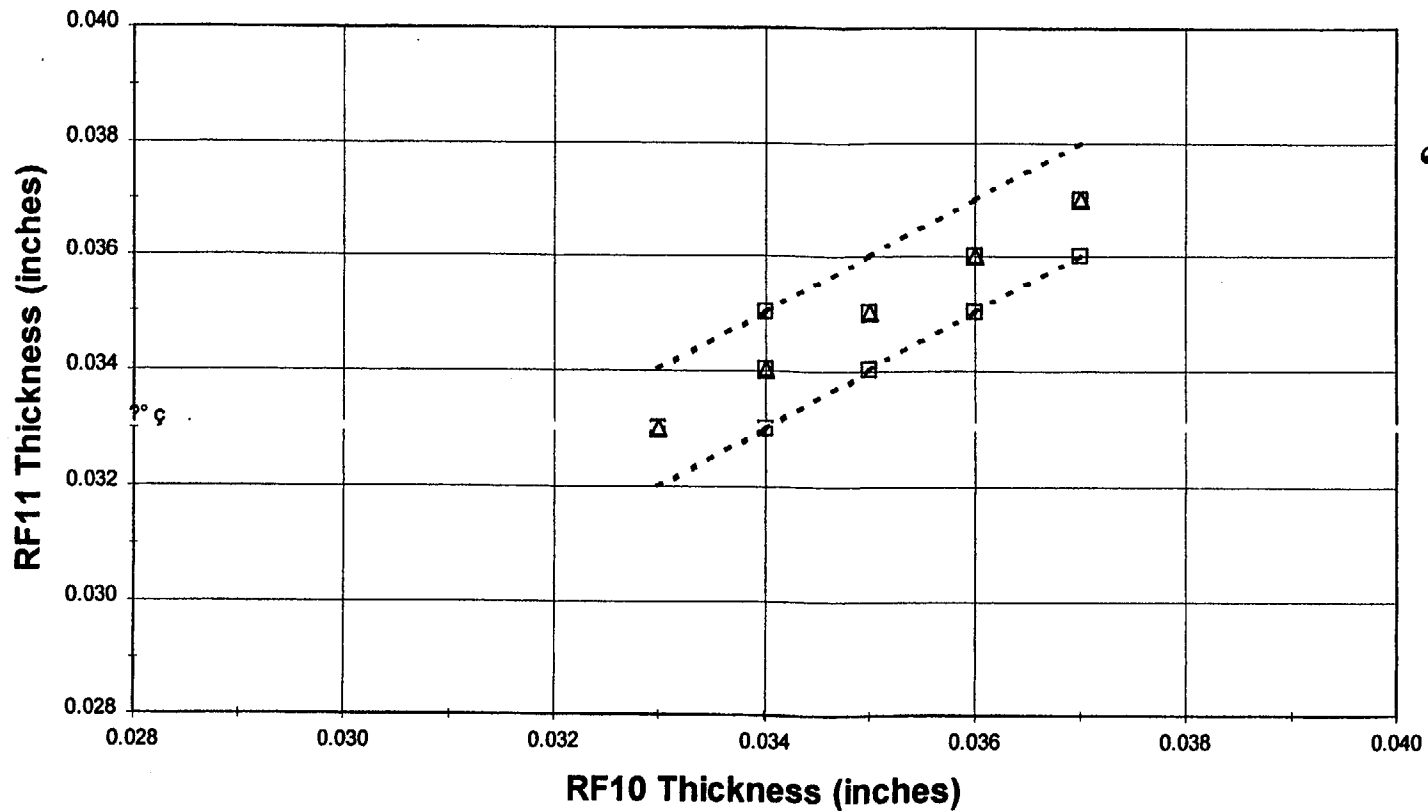
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# Electrosleeve™ UT-360®

## Callaway Results - Summary

S/G "C" H/L Electrosleeve UT-360 Exam Results  
(Average Sleeve Thickness - ADS)



“Micro” Scale

△ RF10 □ RF11 . . . . +0.001" Trendline . . . . -0.001" Trendline

6/6/01



# Electrosleeve™

- **SER in May 1999**
- **Successful Installation in RF-10 (October, 1999)**
- **ISI UT Qualified, EPRI Appendix J**
- **Topical Revision 4, February 2001.**
- **ISI RF-11 (April, 2001)**
  - **No Changes**

6/6/01

 **FRAMATOME ANP**