



U.S. DEPARTMENT OF  
**ENERGY**

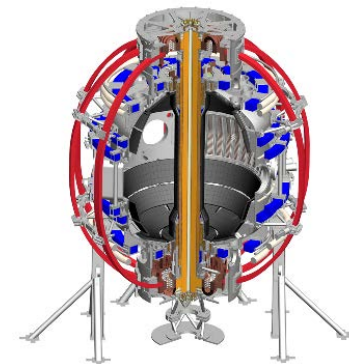
Office of  
Science



# NSTX-U facility status / updates

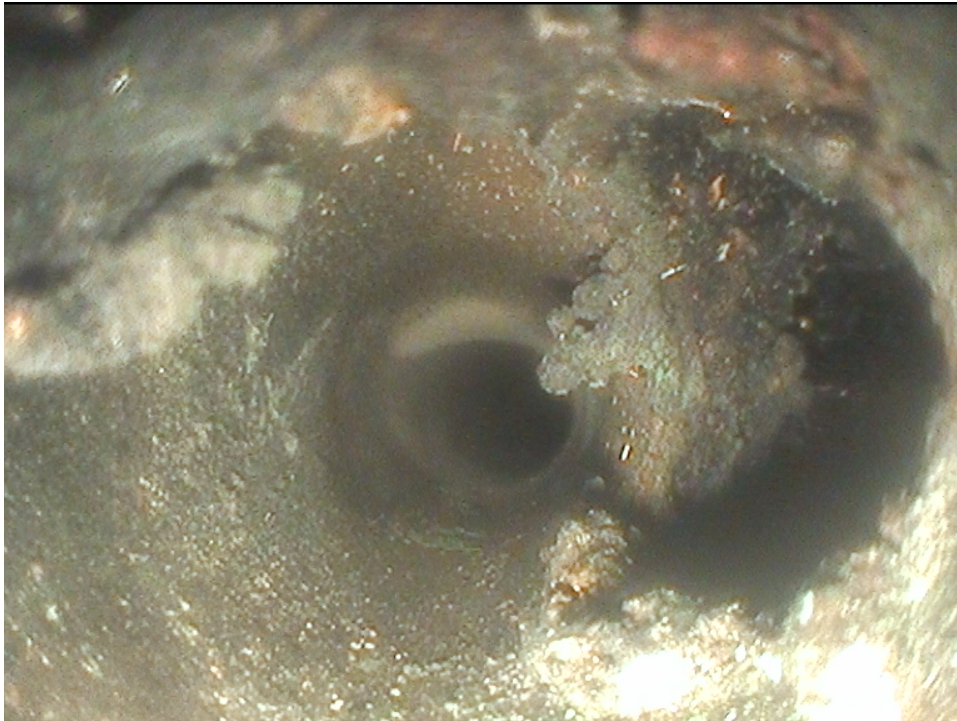
S. Gerhardt

NSTX-U Team Meeting  
MBG Auditorium  
December 21, 2016

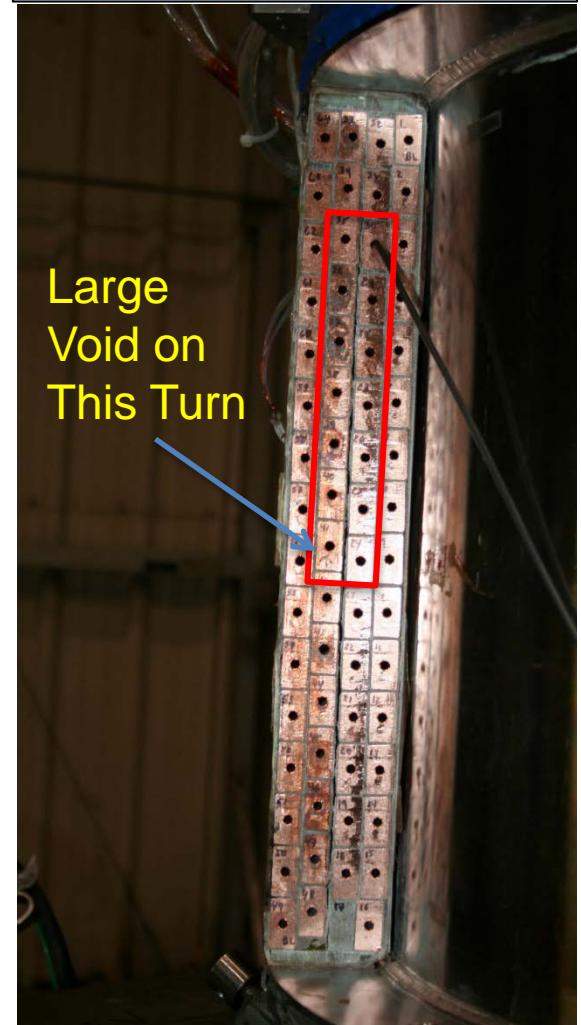


# PF-1aU Coil Status at Last Team Meeting

Section A-B, Layer 3, Row 9 Void Anomaly

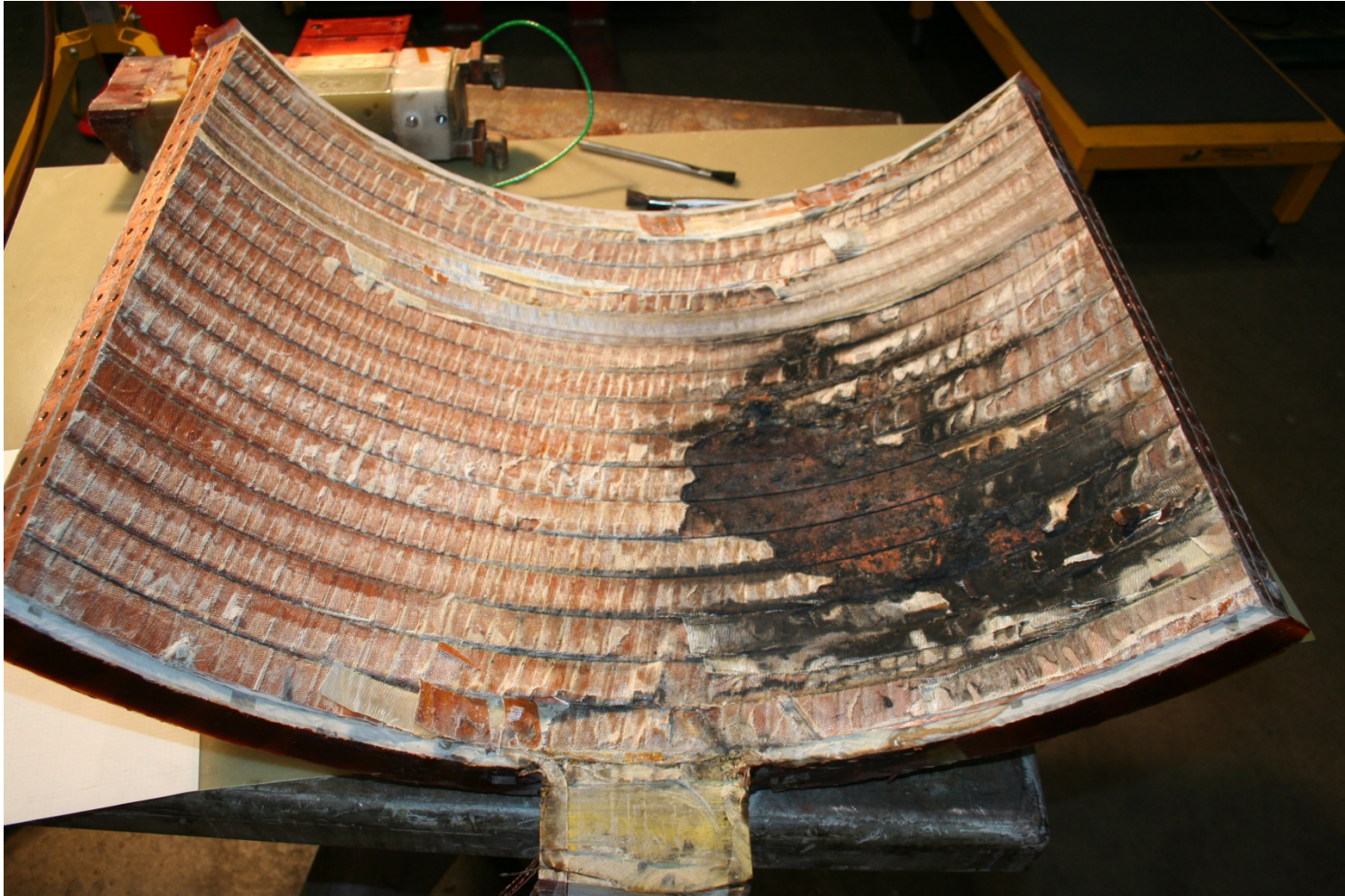


Region of Shorted Turns



Large Void on This Turn

# Coil Has Been Opened - Concave Side



# Coil Has Been Opened- Convex Side



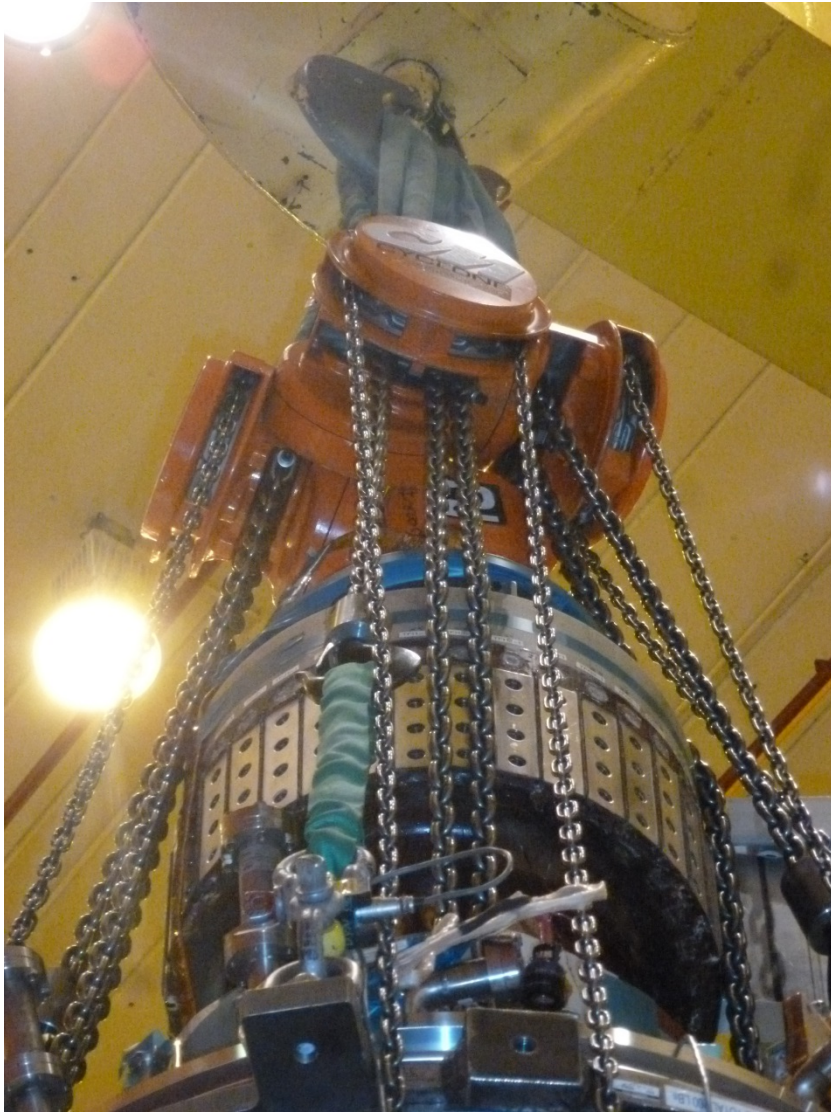
# Hole in the Conductor has been Found



# Status at Last Meeting - CS Had Been Pulled



# CS Casing Has Been Lifted Off



# Casing is Fully Separated from Bundle





# Lower Cooling Tubes Are Also Damaged

Failed Upper Cooling Tube  
(Previously Reported)



Discovered a Failed Lower Cooling Tube  
Lots of Microtherm Dust



Note: This Result Anticipated Based on  
Pressure Testing of the Tube

**Now have access to redesign/replace lower cooling tubes, remove PF1AL**

# PF1A lower successfully removed

