



Home > Public Involvement > Conferences and Symposia > Regulatory Information Conference > Agenda > Carbon Macro Segregation in Large Nuclear Forgings

TH25 Carbon Macro Segregation in Large Nuclear Forgings

Regions of carbon macro segregation can be present in large nuclear components as a result of certain manufacturing processes. These regions of high carbon exhibit a localized increase in the strength and decrease in the fracture toughness of the steel. If a region of macro carbon segregation is present in a component, questions about the component's structural integrity may arise. This session focuses on the technical topics associated with localized carbon macro segregation including the manufacturing process that could lead to this anomaly and its potential impacts on the integrity of large nuclear components.

SESSION CHAIR(S):

- Mary Jane Ross-Lee, Deputy Director, Division of Engineering, NRR/NRC tel: 301-415-3298, e-mail: MaryJane.Ross-Lee@nrc.gov

SPEAKER(S):

- Welcome Remarks
Mary Jane Ross-Lee, Deputy Director, Division of Engineering, NRR/NRC
- Carbon Macrosegregation in Large Forgings
Timothy C. Hardin, Technical Executive, Electric Power Research Institute
- Carbon Macro Segregation in Large Nuclear Forgings
Michael Hoehn, II, Supervising Engineer, Ameren Missouri - Callaway Energy Center
- Safety Significance of Material Embrittlement due to Carbon Segregation in Reactor Pressure Vessel Heads
Robert Tregoning, Senior Technical Advisor for Material Engineering Issues, Division of Engineering
- Carbon Content Anomalies in Large Forged Components in France
Jessie Fourché, Senior Inspector at ASN Pressure Equipment Department, French Nuclear Safety Authority (ASN)
- Investigation on the Carbon Segregation Issue in Japan
Takayoshi Nezuka, Deputy Director, Nuclear Regulation Policy Planning Division, Nuclear Regulation Authority, Japan

SESSION COORDINATOR(S):

- David Rudland, Branch Chief, Division of Engineering, NRR/NRC tel: 301-415-1896, e-mail: David.Rudland@nrc.gov

Page Last Reviewed/Updated Tuesday, February 28, 2017

