BECHT ENGINEERING

Becht Nuclear Services

Lunchtime Seminars

Becht Nuclear Services offers the following free 1-hour overview sessions. Each seminar is followed by a question period for participants.

Evaluation of Wall Thinning Corrosion or Erosion in Piping Systems using ASME XI CC N-513 and N-597

This 1-hour overview covers the technical bases of the two ASME XI Code Cases for the evaluation of corroded piping, CC N-513 and N-597. It explains the technical basis of the assessments and the NRC conditions of applicability.

The seminar also addresses options if the corroded pipe does not meet the limits in N-513 and N-597.

Evaluation of Operability of Piping Systems using ASME III Div.1 Appendix F

This 1-hour overview explains the Appendix F options for the analysis of an abnormal condition in which the piping system does not meet the design stress equations of ASME III NB / NC/ ND-3600 or ASME B31.1. Each of these finite-element-based analyses is illustrated using a common-thread example. The NRC position regarding the use of Appendix F is outlined.

Evaluation of Crack-Like Flaws using ASME XI Failure Assessment Diagram

This 1-hour overview introduces the concept of fracture mechanics for the evaluation of a crack-like flaw discovered during inspection. The method of ASME XI failure assessment diagram is illustrated through an example. The overview explains the important difference between the evaluation of a fabrication crack, a fatigue crack, and a corrosion-induced crack.

Evaluation of Wall Thinning Corrosion or Erosion in Buried Piping Systems using ASME XI CC N-806

This 1-hour overview covers the technical bases of ASME XI Code Case N-806 for the evaluation of corroded buried piping. It explains the technical basis of the assessments and the NRC conditions of applicability. The seminar also addresses options if the corroded pipe does not meet the limits in N-806.

Overview of ASME III for the Design and Qualification of Piping Systems

This 1-hour overview covers the piping design and qualification requirements of ASME III Class 1,2,3. It explains the design and qualification requirements which are covered in ASME III NB / NC / ND-3600, and those which are not. The seminar also addresses the design differences between Class 1, 2, and 3.

Overview of B31.1 for the Design and Qualification of Piping Systems in a Nuclear Plant

This 1-hour overview covers the piping design and qualification requirements of ASME B31.1 in a nuclear power plant. It explains the design and qualification requirements which are covered in B31.1, and those which are not. The seminar also addresses the key differences between ASME III NC/ND-3600 and B31.1.

Overview of Key Technical Changes in ASME III Design for Reconciliation of Code Editions

This 1-hour overview covers the changes that have occurred over the years, from the 1960's to now, in design requirements of ASME III NC/ND for vessels and piping. This historical perspective is meant to highlight technical changes to help engineers perform reconciliation of design requirements when using a more recent code edition and addendum.

Instructor

Mr. George Antaki, PE, fellow ASME, is chairman of ASME III Working Group Piping Design, chairman of ASME B31 Mechanical design Committee, and member of ASME O&M Subgroup Piping. He started his career at Westinghouse in 1975 and has been involved in the design, analysis, qualification, start-up, and operational trouble-shooting of mechanical equipment at several plants. He is the author of three textbooks on the subject of mechanical integrity and fitness-for-service, and is an instructor for ASME.

To schedule a Lunchtime Seminar, contact:

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