

MC114

Repair Strategies and Considerations for Pressure Vessels and Piping

Day 1

- Overview of Existing Industry Documents
 - Construction Codes (ASME, API)
 - In-Service Standards (API)
 - Post Construction Codes (ASME PCC-2, etc.)
 - Jurisdictional Standards (NBIC-23)
 - API 579-1/ASME FFS-1
 - Owner-User Best Practices
- General Approach to Evaluations/Repairs
 - Understanding the damage (why do you need to repair? when is it better not to repair?)
 - What loads need to be considered? How would the component fail?
 - NDE and inspection considerations
 - Considering the risks
 - How to make the run/repair/replace decisions
 - How does the repair fit into the overall life cycle management process for the equipment?
- Welded Repairs and Non-Welded Repairs
 - ASME PCC-2 Overview
 - NBIC Details and Options
 - Post Weld Heat Treat considerations
 - “Old” versus “New” pressure vessels
 - Welding considerations
- Alternatives to Repairs/Optimization of Repairs
 - API 579-1/ASME FFS-1
 - Use of analysis to minimize repairs and/or minimize risks associated with repairs