



# Industry Actions to Address Depth Sizing Capability for Large Bore Piping Welds from Inside Surface

**Carl Latiolais**

Senior Program Manager Performance Demonstration

**PDI/NRC Meeting**

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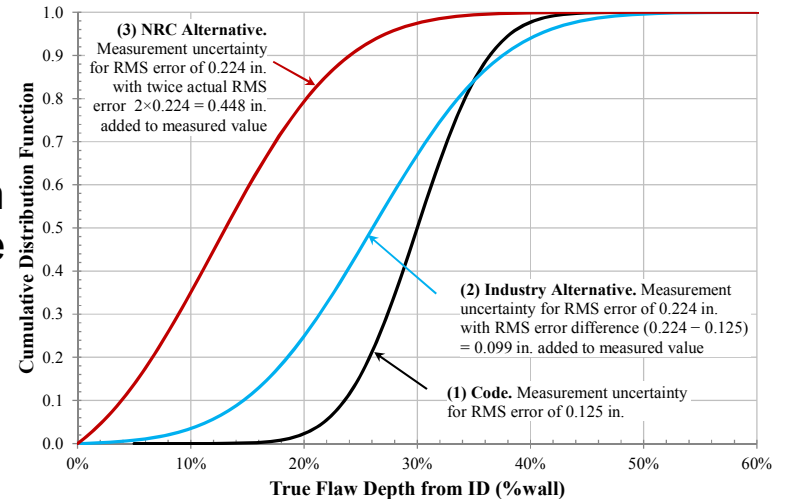
# Background

- Industry has not been able to satisfy Appendix VIII, Supplement 10 depth sizing acceptance criteria
- Industry developed alternative screening criteria to evaluate performance and deal with measurement error in depth sizing
  - Requires licensees to obtain a relief request
- NRC/Industry met from 11/15/2011 to 11/17/2011 to review qualification data stored in PDI grading databases
- NRC identified potential areas of concern that resulted in additional requests for information sent to licensee's requesting relief to use alternative screening criteria
- NRC presented their concerns during December 6-8, 2011 PDI/NRC meeting

# Industry Actions

## Since December 6-8, 2011 PDI/NRC Meeting

- MRP focus group formed 1/2012
  - Group consists of a cross-discipline team of individuals including team members versed in fracture mechanics and Code flaw acceptance criteria
- Focus group actions to date
  - White paper that includes technical basis to support current industry alternative process
  - Presented white paper to NRC on 3/16/2012
  - Performed analysis to answer additional questions asked by NRC as a result of the 3/16/2012 meeting
  - Conducted teleconference with NRC on 4/25/2012 to provide status on additional analysis requested
  - Assisted utilities in addressing RAI's received from NRC



# Future Actions

- Short term
  - Conduct face to face meeting with NRC to go over results of additional analysis
    - Tentatively scheduled for July 26<sup>th</sup> through 27<sup>th</sup> ?
  - Support vendor qualification efforts
- Longer term
  - Develop technical basis to support change to ASME Section XI, Appendix VIII, Supplement 10
    - Project proposed to develop technical basis to support Code changes
    - Several other projects related to ID depth sizing proposed

## Demonstration Activity

- Engaged in qualification with new vendor (Non-US)
  - Actual qualification work scheduled for fall 2012
- Two US vendors have expressed interest in attempting qualification of new procedures that utilize newly developed techniques that may improve performance
  - Work will probably not start until 2013

# Summary

- Industry will
  - Continue to develop the technical basis for the current alternative process being used for depth sizing from inside surface
  - Support vendor efforts to qualify depth sizing techniques from inside surface
  - Work with NRC through the ASME Code process to develop Code action with the goal of modifying the existing Code requirements to an achievable and technically valid acceptance criterion