



**EPRI**

ELECTRIC POWER  
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## ASME Code Update

### PDI/NRC Meeting

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# Task Group – Appendix VIII

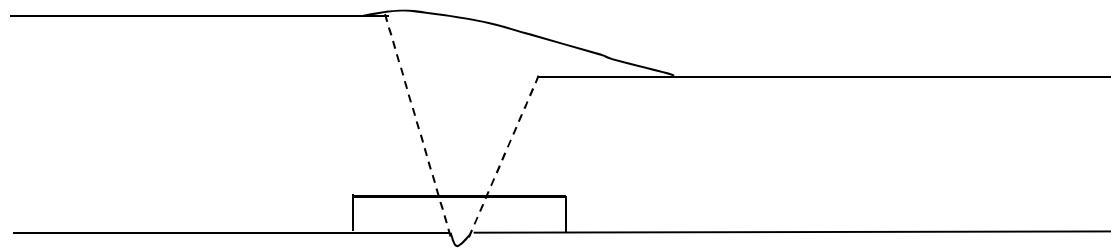
- Draft Code Case N-653-1, Revision of Supplement 11, “Qualification Requirements for Overlaid Piping Welds”
  - Was approved thru TG-Appendix VIII, WG-PQ&VE and SG-NDE in May
  - Will be presented at Standards Committee in August
- Code Case updates Supplement 11 to current industry practices
  - Broadens the language
    - Allows for overlays over both similar or dissimilar metal welds
    - Allows for overlays over cast stainless as well as wrought
  - Incorporates rules for Optimized weld overlays
  - Aligns the format of Supplement 11 with the more recent Supplements to Appendix VIII

# Task Group – Cast Stainless Steel

- Currently monitoring SI probabilistic fracture mechanics study being funded by the industry to determine the critical flaw size for cast materials
  - The plan is to use this information to eventually develop Supplement 9 of Appendix VIII
- Also monitoring EPRI and PNNL studies of UT techniques on cast stainless mockups
- Now working on a Code Case and supporting white paper to add a new Supplement 2 to Appendix III for cast stainless steel UT examination
  - Since the Code currently sends users to App. III for these examinations, the committee wants to strengthen the guidance that is there
  - Incorporating research on examination of CSS carried out in the 80's, 90's and 00's

# Recent Inquiries on Examination Volume

- Recent inquiries have been submitted on Code-required exam coverage when the weld crown/weld buildup goes beyond the actual weld bevel



- In cases like this, the code regards the weld bevel as the structural edge of the weld. Therefore the weld bevel would designate the exam volume, and not the extended weld toe.

## Pending Code Items

- PNNL (Steve Doctor) – Extensive review of Appendix VIII
  - Supplement 10 – clarification of “additional” length sizing flaws in 3.2(b)
  - Supplement 11 – clarification of flaw locations/types in 2.2(b) and 2.3(b)
  - Supplement 14 – clarification of “combined” test for 3.2(e) and 3.3(d)
  - Several errata due to differences between the Committee approved and Code published documents
- These items will be worked down by TG-Appendix VIII over the next few meetings

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