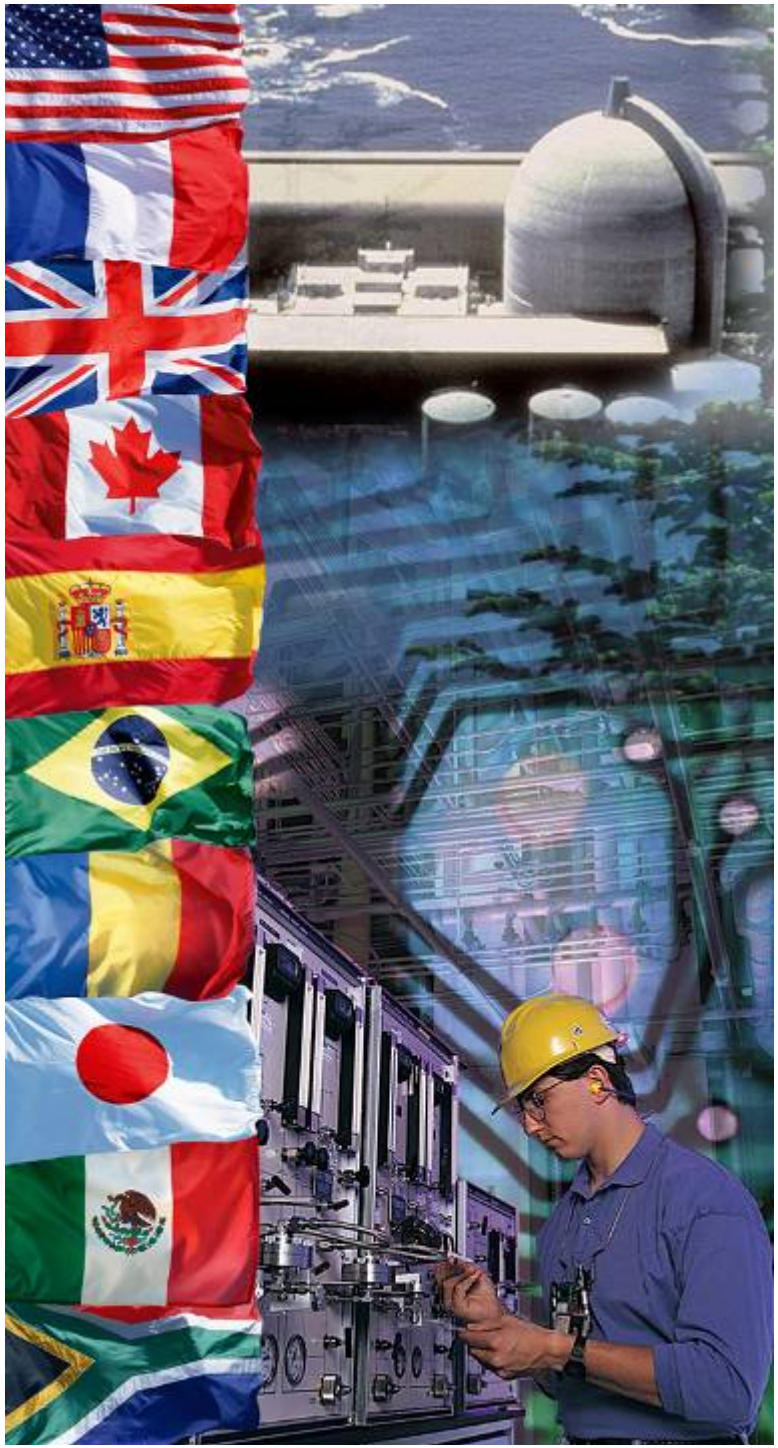

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Weld Inlay Examination Capability

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Weld Inlay Examination Capability

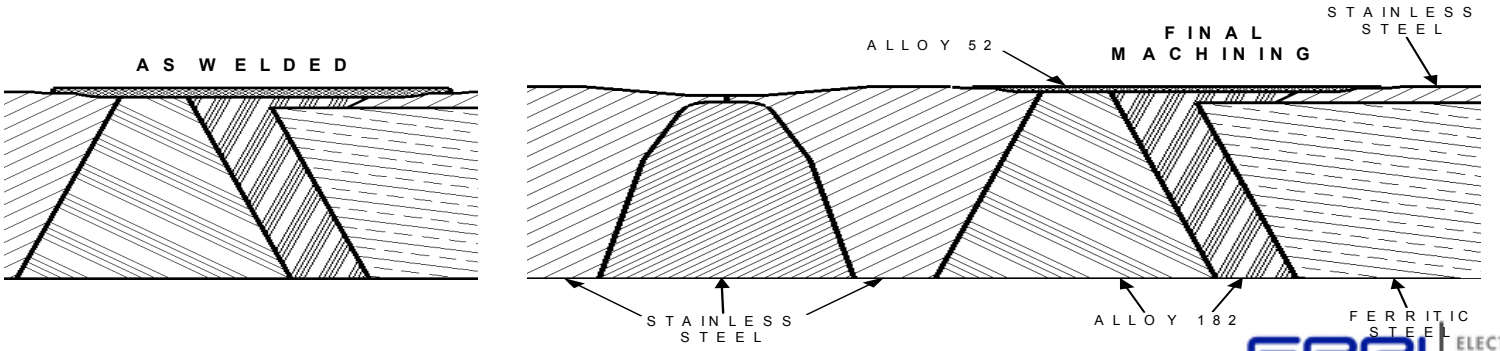
Summary

- The mitigation of PWR main loop nickel based dissimilar welds using a weld inlay process is under investigation
- Inlays are likely to be the most effective mitigation approach since access from the outside is not available in many cases
- The capability of inside surface examination techniques to establish that the dissimilar metal weld is defect free during and after mitigation repair is key to the acceptance of this mitigation process

Weld Inlay Examination Capability

Project Description

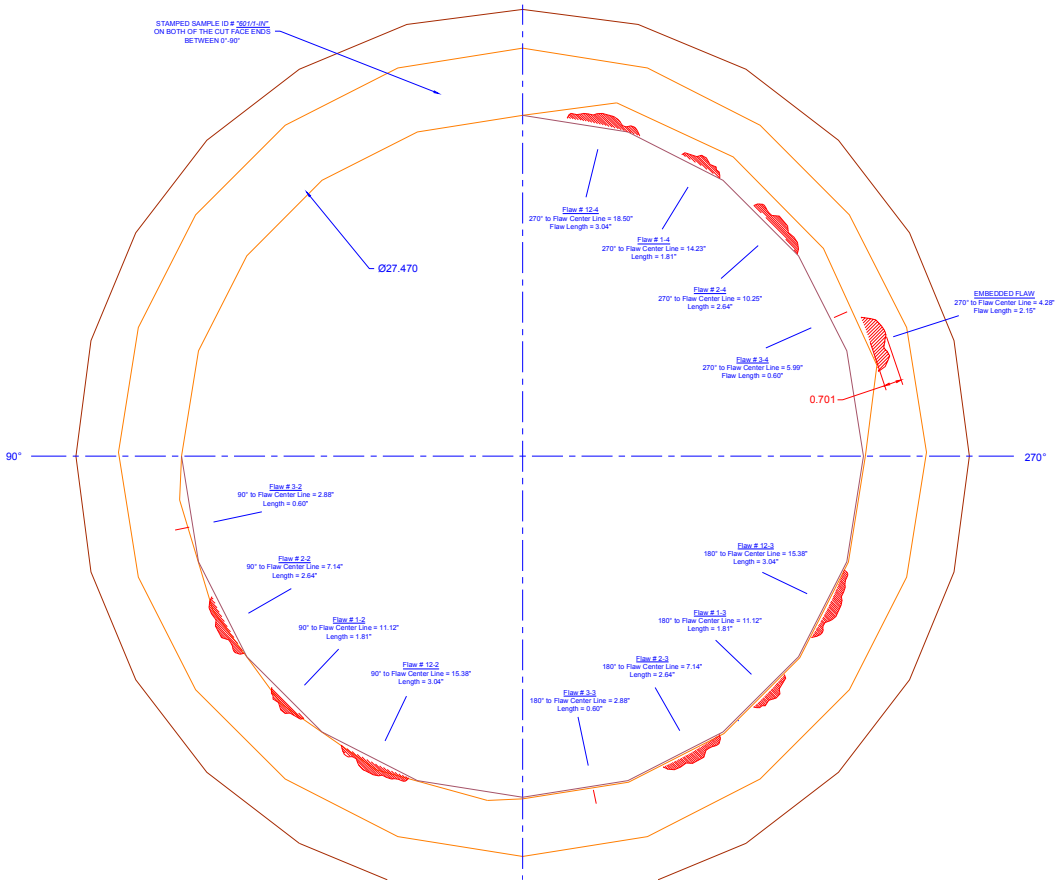
- Purpose of this project is to
  - The objectives of this project is to provide documented evidence that the inlay repair/mitigation approach can be effectively examined using existing inside surface qualified examination procedures (No further qualifications required)
  - Supplement 10 and CC-695 presently exclude welds with Corrosion Resistant Cladding (CRC)



Weld Inlay Examination Capability

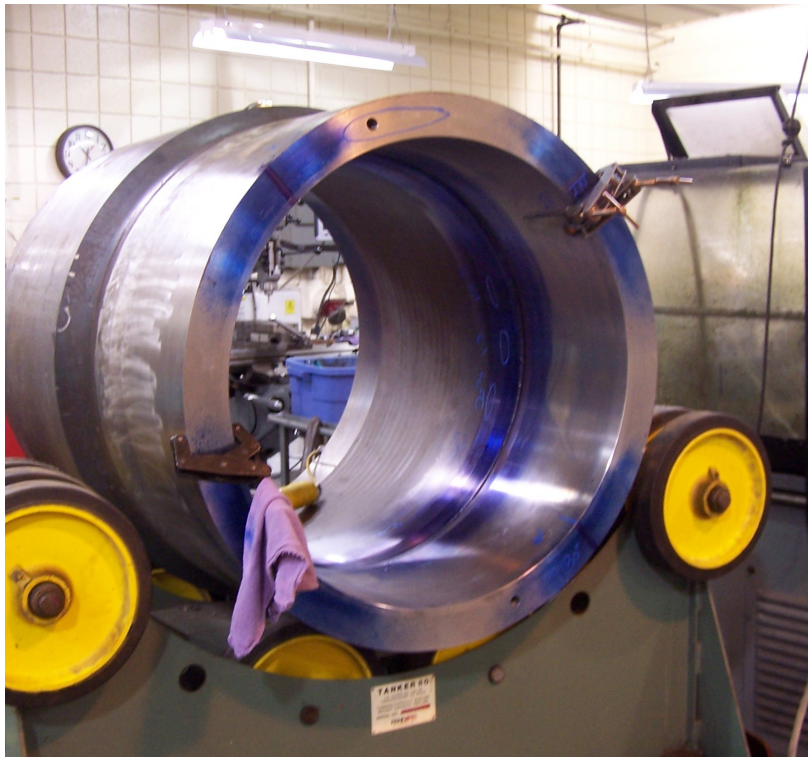
- **Tasks & Deliverables**
  - PDI Equivalency Testing
    - Design and fabrication of a representative RCS mockup for PDI equivalency testing (Complete)
    - Perform equivalency testing on the RCS mockup with existing PDI UT procedures and personnel (Ongoing)
    - Witness of equivalency testing and document results
    - Develop technical basis including relief request
      - *First Quarter 2008 (Behind Schedule due to Industry Events)*

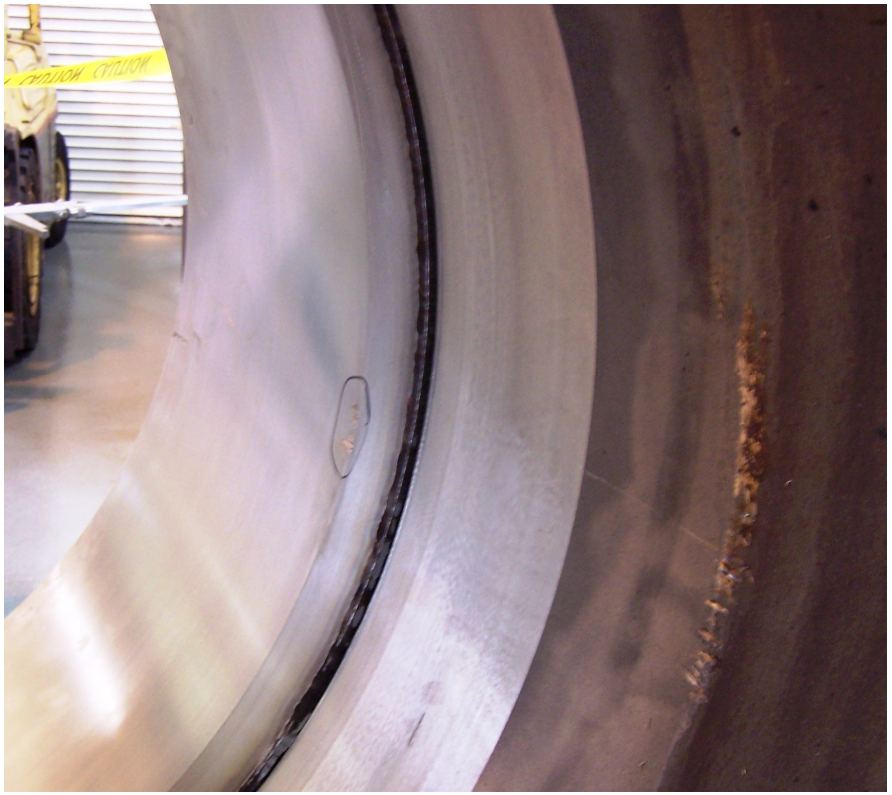
Inlay Specimen



END VIEW LOOKING TO
THE CARBON NOZZLE

Inlay Specimen





Weld Inlay Examination Capability

Status

- PWROG has funded project lead by AREVA to evaluate and develop technology
  - Westinghouse also part of team
    - Kick off meeting held March 19th through 21st
  - AREVA has collected data on mock-up
    - Presently evaluating
  - WESDYNE scheduled to collect data last week in November through the first week in December

Weld Inlay Examination Capability

Benefits

- The inlay mitigation approach will reduce the frequency of examination as well as providing an improved surface for performing the examination with currently qualified procedures
- The project will also reduce the amount of qualifications required in order to perform examinations of these mitigated components