U.S.NRC

United States Nuclear Regulatory Commission

Protecting People and the Environment

NRC Special Inspection Meeting

Harris Reactor Pressure Vessel Nozzle Weld Indication

June 13, 2013

Welcome

Terry Reis

Director, Division of Reactor Safety

NRC Region II

Meeting Agenda

- Introductions
- Background
- NRC Inspection Focus Areas
- Major SIT Activities
- Exam & Repair Results
- NRC Evaluation for Continued Operations
- NRC Conclusions
- Public Questions and Comments

Introductions

- Terry Reis, Director, Division of Reactor Safety (DRS)
- Steven Vias, Chief, Engineering Branch 3 (EB3), DRS
- Dr. Robert Williams, Reactor Inspector, EB3, DRS - SIT Lead Inspector
- Jay Collins, Senior Materials Engineer, Nuclear Reactor Regulation (NRR)
- Joey Ledford, Public Affairs Officer
- Gena Woodruff, Regional Government Liaison Officer, Meeting Facilitator
- Joe Austin, Senior Resident Inspector, DRP
- Patrick Lessard, Resident Inspector, DRP
- Brendan Collins, Reactor Inspector, EB3, SIT Team member
- Ann Kroeger, Site Administrative Assistant

NRC SIT Scope & Results

Dr. Robert Williams

Reactor Inspector

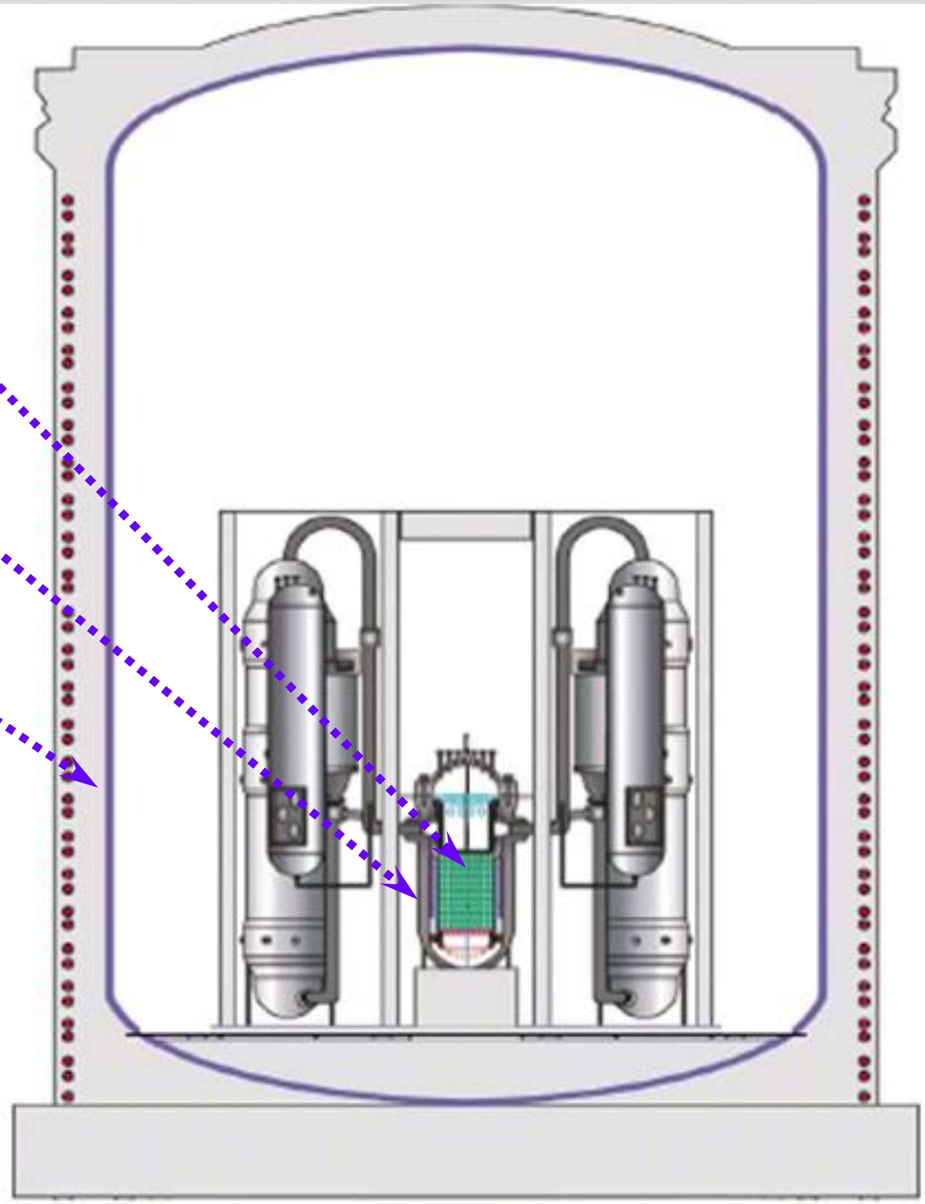
SIT Lead Inspector

Fission Product Barriers

Barrier #1:
cladding enclosing the fuel

Barrier #2:
reactor vessel & piping

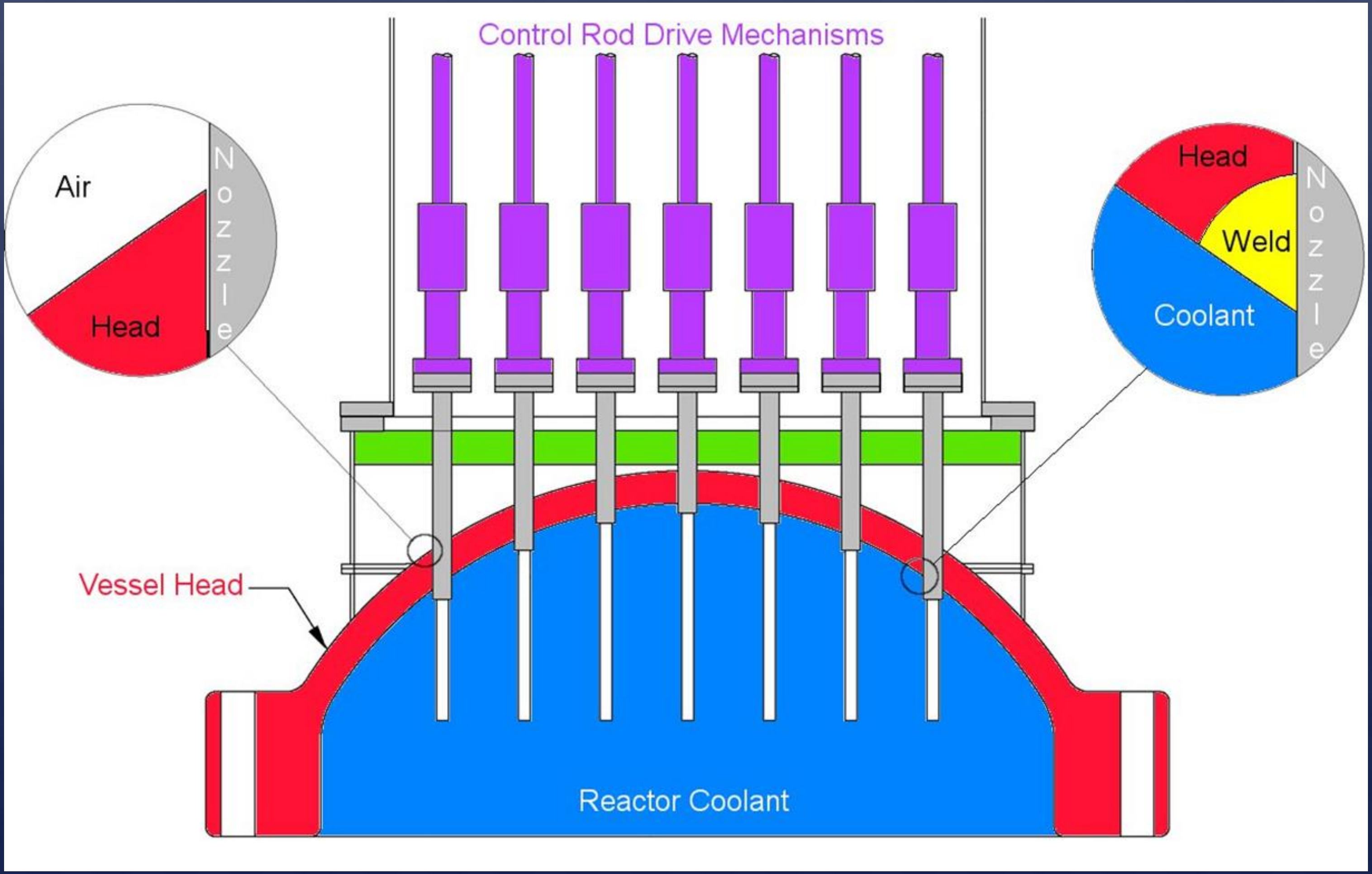
Barrier #3:
containment



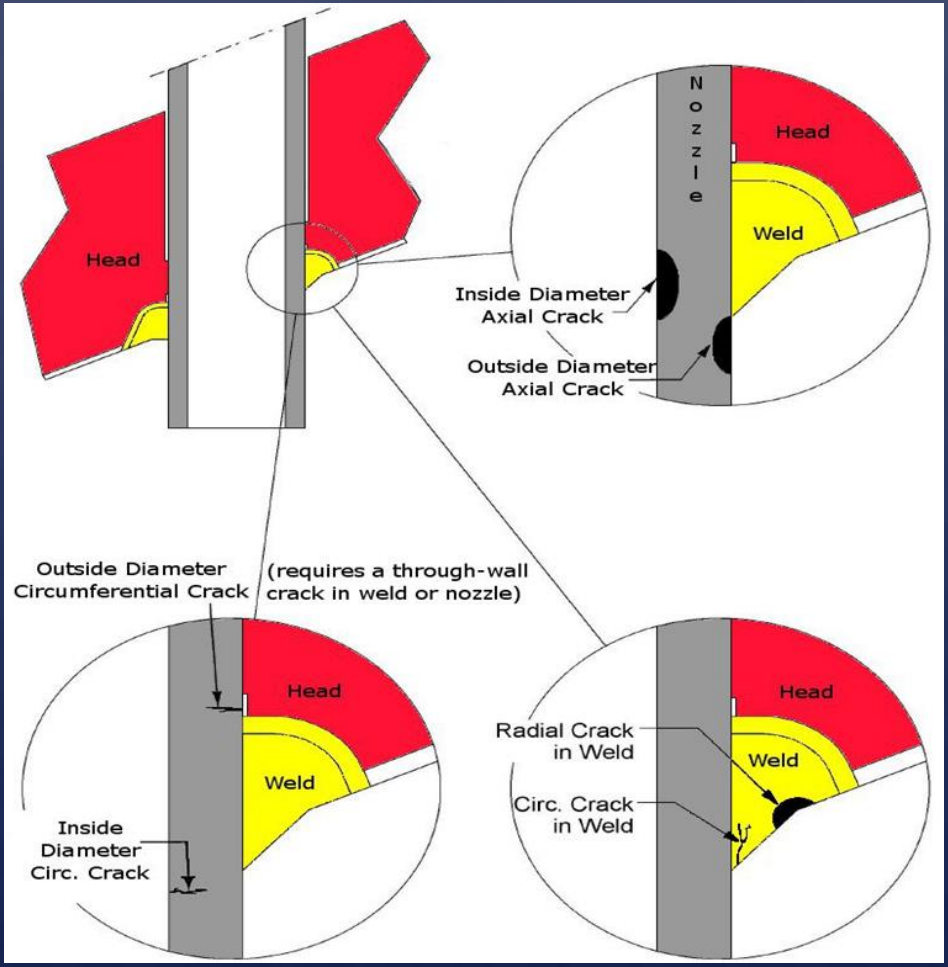
RPV Head Background

- Generic Issues/NRC Order EA-03-009
- Harris-specific evaluation
- Reactor vessel head inspections

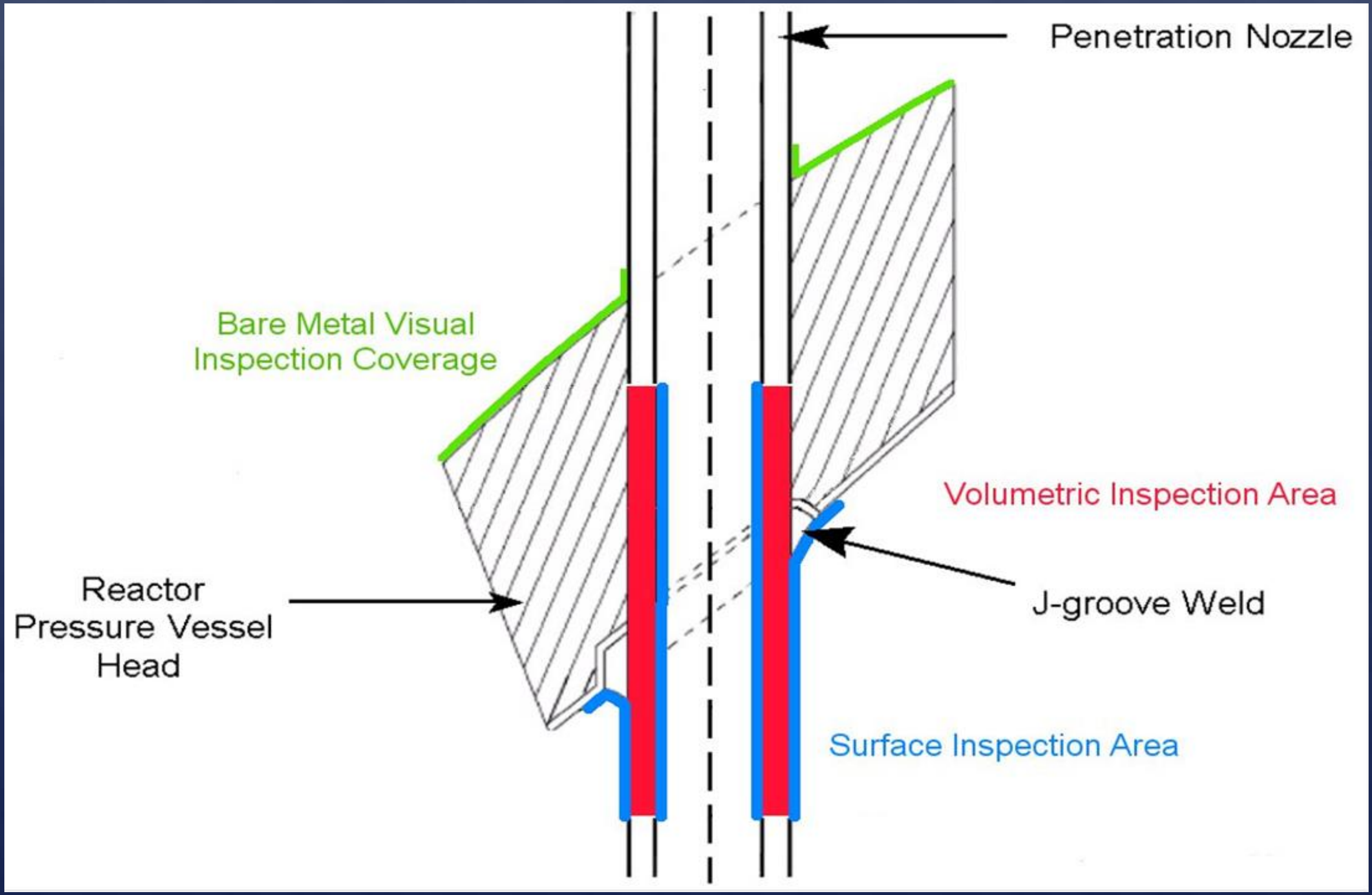
Reactor Vessel Closure Head



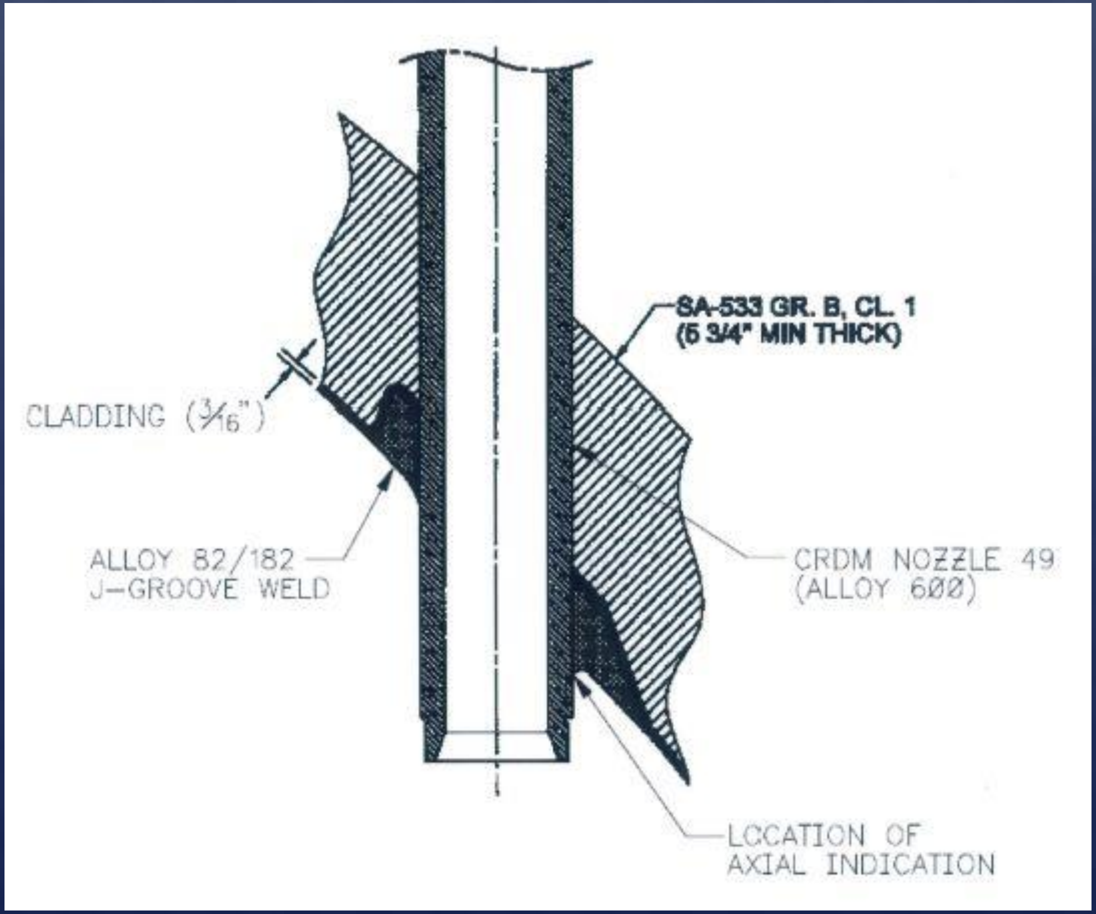
Stress Corrosion Cracking



Inspection Types



Harris Nozzle #49



NRC SIT Focus Areas

- Determine the facts surrounding the event
- Observe and evaluate the examinations and the repair
- Evaluate the non-destructive examinations from the 2012 outage and the corrective actions taken

Major SIT Activities

- Develop a timeline of the event
- Assess the condition of the vessel head
- Review the 2012 refueling outage vessel head examinations
- Observe the nozzle weld repair process and its return to service
- Assess the licensee's compliance with regulatory requirements

NRC SIT Conclusions

- Plant safety was not compromised
- There were no indications of leakage
- Vessel head structural integrity was not challenged
- The flaw was successfully repaired
- Licensee failed to identify the flaw in 2012

Public Questions & Comments

Questions/Comments

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