

Proposal To Clean Incore Tunnel And Below Vessel
A
Locked High Radiation Area.

Situation

Currently the Incore tunnel, below the vessel, and tunnel side walls contains boric residue deposits, tools and filth. Light is nonexistent. This area has never been cleaned. In light of the identification of head degradation request that these area be cleaned/lighted dependent on dose rates, e.g., practical application of cleaning practices versus ALARA considerations.

Background

In August 2001, Plant Engineering, Radiation Control and Quality Assurance met to discuss this cleaning work. Plant Engineering is required per the ASME Code to perform a RCS VT-2 examination during Mode 3 heat up. Previous examiner stated that this residue BA could obscure leakage detection. Hence, the attempt was to obtain a general cleaning or new baseline to assist in identification of RCS leakage during the examination.

Discussion on cleaning the Incore tunnel and below the vessel occurred. We discussed methods of cleaning, however due to dose rates an alternate method was determined to be satisfactory. WO 00-005155-00 originally written to clean the tunnel was changed to install a robot camera to video tap the as-found condition and the test condition. Using this video tap, we could compare the as-found condition in Mode 5 to the actual test condition in Mode 3. This would meet the ASME VT-2 examination requirements and limit dose rates. Any difference between the as-found condition and the actual test would be identified as leakage. Engineering, QC and ANI agreed to this as acceptable. At the time, this was the best solution due to dose savings.

Proposal:

Revisit original option to clean the Incore tunnel stairwell, tunnel walls, below the vessel, vessel insulation, removal of tools and trash. Scope of cleaning based upon ALARA dose.

Options	Positive	Negative
No cleaning.	No dose	New leakage will be harder to identify.
Clean Incore tunnel, tunnel walls, below vessel, remove tools and filth.	New baseline assurance that VT-2 examiners can see evidence of leakage and location. Politically this is a better choice. General area would be physically safer.	Dose rates in conflict with ALARA concerns. Cost of cleaning.

Note:

WO 00-005155-00 will still install a video camera for the as-found and test conditions. We will need documentation of any final decision reached. Recommend after initial review of this proposal, we submit it to the ALARA review committee. No work request will be written unless directed by management.