



8.3 Effect of Faster Pressurization/Depressurization Rates During Last ILRT

Description:

The procedure for conducting the containment Integrated Leak Rate Test (ILRT) (SP-178) was changed before the last ILRT, which was performed in 1995. That change (2005) included a provision to allow the rate of change in internal pressure to 15 psi/hr, a higher rate than was used in previous ILRTs.

Data to be collected and Analyzed:

1. ILRT procedure. (FM 8.3 Exhibit 1)
2. 10 CFR 50.59 Evaluation of the ILRT procedure change relative to the pressurization/depressurization rate of 15 psi/hr. (FM 8.3 Exhibit 2)
3. Engineering disposition to and engineering change (ECED 62366RO) included an evaluation to depressurize containment at 15psi/hr. (FM 8.3 Exhibit 3)

Verified Refuting Evidence:

- a. The ILRT procedure was appropriately changed and evaluated in accordance with Progress Energy procedures and 10 CFR 50.59. (FM 8.3 Exhibits 1 and 2)
- b. ECDC 62366RO evaluated the 15 psi/hr change of containment pressurization/depressurization and concluded that "From a structural standpoint, depressurizing (or pressurizing) the RB at 15psi/hr is not challenging, as accident conditions are much more severe". Although other issues may result from this change, they are not considered relevant to the structural integrity of the containment and therefore not contributors to the delamination issue. (FM 8.3 Exhibit 3, pg 5 of 5)
- c. In addition, Impulse Response scans of the exterior containment surface revealed no delamination in any sections between buttresses beyond the panel where the SGR hole was cut

Conclusion: There was no effect on the containment structure from changing the ILRT procedure that had not already been bounded by its design.

Verified Supporting Evidence:

Not applicable

May identify additional perspective on this issue
as RCA related efforts proceeds

03/17/2010

Draft

~~PII Proprietary Confidential, 2009~~
~~Do not release to third party without permission~~

1

P/50