



8.2 Thermal Stresses due to Containment Spray

Description:

The containment spray event of October, 1992 resulted in an injection of about 9400 gallons of borated water into the reactor building (RB) atmosphere. The event resulted in a change to the average containment temperature.

Data to be collected and Analyzed:

1. Review containment temperature graph record for the 1992 containment spray event. (FM 8.2 Exhibit 1. The four temperature graphs of interest are numbered 5,6,7,and 8 on pg 2 of 4. Those numbers are the "PT" numbers listed in pg 3 of 4 and are also identified as "Tag" numbers. The Tag numbers are shown on pg 4of 4 to indicated the elevation of the temperature reading).
2. Review FSAR Chapter 5, Section 5.5.1.1 and 5.5.1.2. (FM 8.2 Exhibit 2)

Verified Refuting Evidence:

- a. The design for average containment temperature is not to exceed 130 degrees F and to remain above a minimum temperature of 60 degrees F during normal operations. (FM 8.2 Exhibit 2)
- b. The temperature excursion during the 1992 spray event was less than a 10 degrees F.
- 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: The containment spray event of October 1992 did not lead to exceeding either a containment design or Technical Specification temperature limit.. Therefore, any thermal stresses that may be postulated by the spray event were bounded by the containment design bases.

Verified Supporting Evidence:

Not applicable

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May identify additional perspective on this issue as RCA related efforts proceeds₁

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