

From: <Tony_Menocal@fpl.com>
To: <NFD@nrc.gov>
Date: 5/28/03 8:16AM
Subject: ST. LUCIE LICENSE RENEWAL; CONFIRMATION OF 5/22 E-MAIL STATEMENTS

In response to your e-mail yesterday, the following confirmation responses are provided:

NRC Item 1

Please confirm that the leakage and fatigue analysis discussed yesterday were based on a crack occurring in a pressurizer surge nozzle thermal sleeve.

FPL Response:

That is correct. The detailed analysis as provided in the supplemental information evaluated a crack in the pressurizer surge nozzle thermal liner. This was considered the limiting case based upon the design/construction of the surge nozzle sleeve.

NRC Item 2

Please confirm that this analysis would be bounding for any assessment of leakage from a crack in the spray nozzle.

FPL Response:

That is correct. The analysis provided is bounding for any potential leakage resulting from a crack in the pressurizer spray nozzle thermal sleeve. As described in the supplemental response, the spray nozzle thermal sleeve is manufactured from pipe (i.e., forged, with no seam weld). Therefore, the spray nozzle thermal sleeve would not be susceptible to the type of failure (i.e., seam weld failure) resulting from PWSCC which could open a gap along its entire length. PWSCC in the spray nozzle thermal sleeve would result in a tight crack geometry and only minor fluid flow. This fluid flow would not be significant in comparison to the equalization holes existing in the thermal sleeve design, and therefore would not impact its intended function.

NRC Item 3

Please confirm: (1) that the surge nozzle is the limiting thermal fatigue location for the pressurizer and (2) that the surge line is in service more than the spray lines (which would only be activated when depressurization is needed).

FPL Response:

As indicated in the response to NRC Item 2 above, PWSCC in the pressurizer spray nozzle thermal sleeve will not result in loss of its intended function. Additionally, the pressurizer surge nozzle is a more limiting thermal fatigue location than the pressurizer spray nozzle.

Please call if you have any questions.

Thanks,

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