

Jonathan Rowley - modified question

From: Jonathan Rowley
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Subject: modified question

Dave/Mike

On Wednesday (11/21) I sent you the draft of a potential question the staff has related to Audit Question #387. Here is an advance copy of the final version of the question. Formal transmittal of this question to follow.

Your response to audit question # 387 in your November 14, 2007, letter states that "In most cases the maximum component stress difference with time matched the maximum stress intensity calculated by ANSYS. This shows that shearing stresses are negligible for the thermal transient at that location and the maximum component stress difference is the maximum stress intensity."

Please identify the exceptions to the quoted statements. In addition, please justify the exceptions, based on quantitative evaluations, that the shearing stresses are negligible and the maximum component stress difference is the maximum stress intensity for the branch nozzle blend radius (nozzle corner) locations with geometrical discontinuities for the applicable thermal transients. Your response should cover the shearing stress differences at the 0-180 degree axis and the 90-270 degree axis to the pipe run axis.

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