

From: "Lindgren, Donald A." <lindg1da@westinghouse.com>
To: 'Lauren Quinones' <LNQ@nrc.gov>, "jnw@nrc.gov" <jnw@nrc.gov>
Date: Thu, Oct 27, 2005 2:06 PM
Subject: RE: AP1000 DCD Tier 1 corrections

The following are the responses to your questions outlined below.

1. The change in the mass of the reactor vessel due to the change in the diameter and thickness of the cylindrical portion of the reactor vessel is very small. This change is not expected to have an adverse effect on the seismic analysis of the building or reactor coolant loop.
2. Final fatigue calculations are prepared as a part of the ASME Design report. The increase in vessel wall thickness in the cylindrical portion of the vessel surrounding the core is not expected to have an adverse effect on the fatigue calculations.

D. A. Lindgren

-----Original Message-----

From: Lauren Quinones [mailto:LNQ@nrc.gov]
Sent: Tuesday, October 25, 2005 2:56 PM
To: lindg1da@westinghouse.com
Cc: Jerry Wilson; Laura Dudes; Mary Klump; Wesley Held
Subject: AP1000 DCD Tier 1 corrections

Don,

Following are two questions regarding item 2.1.3.

1. Since the dimensions of the vessel have increased, has any consideration been given to the change in weight of the vessel, specifically in the seismic analysis?
2. With the increase in wall thickness, has Westinghouse considered how this would affect the fatigue calculations for the vessel?

Please, let me know if you have any questions.
Thanks,
Lauren

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Subject: RE: AP1000 DCD Tier 1 corrections
Creation Date: Thu, Oct 27, 2005 2:03 PM
From: "Lindgren, Donald A." <lindglda@westinghouse.com>

Created By: lindglda@westinghouse.com

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