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To: "James Davis" <JAD@nrc.gov>, "Peter Wen" <PXW.TWGWPO2.HQGWDO01@nrc.gov>
Date: Thu, Jun 29, 2006 7:37 AM
Subject: Jim & Peter --

Jim & Peter --

I apologize for the late-breaking questions. However, as I write up the report there are places where I simply cannot "connect the dots" without additional information.

The attached question relates to what kind of bolting the applicant has on flanged attachments to the RPV -- in terms of yield strength and nominal diameter. I suspect the answer is that yield strength is less than 150 ksi -- except for the RPV head bolts; and, if so, that is all that I need them to tell me. If yield strength is greater than 150 ksi for bolts with diameter between 1" and 2", then I need them to commit to the augmented inspection as recommended by the GALL AMP or provide a basis for not doing so.

Hopefully, they can get this answered soon. The answer should be simple; and it really does not need to become an RAI.

Thanks

Bob Jackson

CC: "Erach Patel" <erachp@comcast.net>

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Subject: Jim & Peter --
Creation Date Thu, Jun 29, 2006 7:36 AM
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**Questions Related to PNPS Aging Management Review Results
for LRA Section 3.1.1 (Reactor Vessel, Internals and Reactor Coolant System)
Prepared by Bob Jackson**

Question Number:	
Question	
NEW QUESTION: (Submitted after site audit)	6/29/2006
3.1.1-34:	
LRA Table 3.1.2-1 includes three AMR results lines related to bolting. Two of these lines ("incore housing bolting" and "other pressure boundary bolting") identify the aging effect of cracking (not due to fatigue) and the aging management program is Inservice Inspection.	
GALL AMP XI.M18 (Bolting Integrity) refers to ASME Section XI requirements for detection of aging effects. However, for high strength bolting (> 150 ksi), the GALL AMP states that for bolting size greater than 1-inch nominal diameter a volumetric examination comparable to that of ASME Section XI Examination Category B-G-1 is required in addition to the visual examination required by Examination Category B-G-2 (for pressure retaining bolting 2" and less in diameter).	
Sufficient information has not been found in the LRA or in other documents reviewed to determine whether the incore housing bolting and other pressure boundary bolting in Table 3.1.2-1 can be excluded from the augmented examination.	
Question:	
For the components described as "incore housing bolting" and "other pressure boundary bolting" in LRA Table 3.1.2-1, please provide the following information.	
1) Is the yield strength of these components greater or less than 150 ksi?	
2) Is the diameter of these components greater than 1", and less than or equal to 2"?	
3) If any of these components have yield strength greater than 150 ksi and diameter between 1" and 2", will PNPS perform the augmented volumetric inspection as recommended in the GALL report? Alternatively, if such components are used at PNPS and PNPS does not propose to perform the augmented volumetric inspection, please provide a plant-specific basis to waive the augmented requirement of the GALL AMP.	

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