

From: D. Ashley
To: John Hufnagel
Date: Tue, Oct 18, 2005 3:40 PM
Subject: AMR questions

John -

Greg Cranston asked that I forward these to you. Please note that these are for the upcoming AMR audit.

- Donnie Ashley

AMR-1: The OCGS LRA contains 217 references to TLAA's in the AMR tables. All but a few cite cumulative fatigue damage as the aging effect requiring management. After review of the information contained in the LRA, Chapters 3 and 4, the project team has a number of questions related to TLAA's for cumulative fatigue damage:

(a) In following the AMR line item references for mechanical components back to the Table 1 entries, then to the further evaluations, and finally to LRA Section 4.3, it is not always clear whether a CLB fatigue analysis actually exists or whether the TLAA is addressed by the 7,000 assumed cycles in accordance with B31.1 or equivalent design methods. To clarify this, please identify the applicable disposition for each TLAA line item related to cumulative fatigue damage of mechanical components (piping, fittings, nozzles, valves, pumps, etc.) Also identify which subsection of LRA 4.3 applies.

(b) In the LRA Section 3.1, 3.2, 3.3 and 3.4 AMR tables, there are a number of references to TLAA's related to cumulative fatigue damage of bolted closures. The intended function is pressure boundary or leakage boundary. Normally a bolted closure in a pressure retaining boundary is designed such that there is no load cycling in the bolts, because they are very susceptible to fatigue failure, by nature of the as-designed stress raiser at the root of the threads. Load cycling is essentially eliminated by use of bolt preload. Please clarify and provide more detail related to these specific AMR table line items.

AMR-2: A large number of AMR line items in LRA Sections 3.1 through 3.6 reference further evaluations, which are provided in the LRA Sections 3.1.2.2 through 3.6.2.2, respectively. Please ensure that the technical basis document for each further evaluation in LRA Sections 3.1.2.2 through 3.6.2.2 is available for review by the project team during the on-site AMR audit, preferably in both hard-copy and electronic formats.

AMR-3: The OCGS LRA was developed based on the January 2005 draft version of the updated GALL. A final updated version of GALL, released in September 2005, may contain revisions that are applicable to the OCGS LRA. Please provide a documented reconciliation (identification of applicable differences and a technical assessment of significance) between the AMRs in the OCGS LRA and the recommendations in the September 2005 GALL final update.

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