

From: Thomas Alexion
To: SBENNE2@entergy.com
Date: 2/25/03 11:27AM
Subject: Follow-up Discussion Questions, Bulletin 2002-01

Steve,

See the attached list.

Tom

Follow-up Discussion Questions to the Bulletin 2002-01 60-Day RAI Responses
Arkansas Nuclear One, Units 1 and 2

Question 1: Susceptibility Models

- Do you have susceptibility models addressing the potential for boric acid leakage? If the answer is yes, please identify plant specific areas where these models apply. How do you use the information?

Question 2: Reactor Vendor Recommendations

- Has your reactor vendor made specific recommendations on visual inspections of class 1 pressure boundary? If the answer is yes, please identify the areas affected by these recommendations.
- What specifically do you do to address those recommendations?
- If you have difficulty in following those recommendations, please identify the difficulties and also, do you have any suggestions to address those recommendations.

Question 3: Specific questions on small diameter nozzles/valves/fittings

- Do you remove insulation from small diameter nozzles/valves/fittings to perform VT-2 exams during refueling outages or during partial or full pressure tests?
- How can you verify the existence of leakage during VT-2 without removing insulation?
- Identify areas that are inaccessible for VT-2 during refueling outages/during partial or full pressure tests.
- Identify areas where insulation cannot be removed (if any) for performance of a VT-2 during refueling outages/during partial or full pressure tests.
- How does your BACC program account for or address the potential for leakage from piping that may impact the leaking component or neighboring components?

Question 4: Leakage in inaccessible areas

- Do you have inaccessible areas for performing VT-2 inspections during refueling outages/partial or full pressure tests? Explain why are they inaccessible?
- What action do you take to have confidence in the structural integrity of components located in inaccessible areas?

Question 5: Specific questions on RPV head RPV bottom areas

- Do you VT-2 inspect the piping and surrounding areas over the upper head during each refueling outage?
- Do you VT-2 inspect the space under the lower head during each refueling outage? Do you remove any insulation to inspect ICI penetrations during each refueling outage?
- Can/do you VT-2 the upper head and lower head areas during full pressure operation prior to plant being critical?
- If you find boric acid deposit, what action do you take?

Question 6: Inspection during refueling outages

- Do you VT-2 the entire RCPB (welds, nozzles, piping components, bolted connects)?
- How do you choose location to remove insulation to VT-2 it, for example, if the area(s) were susceptible to leakage from a susceptibility model, or from past experience or from your vendor's recommendations?
- What other type of inspections you do in addition to VT-2? Why and when do you do it?
- If you don't VT-2 all areas, how do you know that there was no leakage?
- If you find effects of boric acid on components, what specific action do you take? (For example, do you remove insulation to try to find out the source of the leak? Do you scrape the boric acid deposits to find out the extent of any damage?)

Question 7: Leakage during plant operation

- How do you find out if an RCPB component is leaking?
- How quickly you can identify such leakage?
- What specifically does your procedures require you to do if you know there is leakage (please address both accessible and non-accessible areas)?
- Do you treat the leakage differently in terms of identified and unidentified leakage (other than simple allowance in gpm)?
- What are your leakage acceptability criteria for identifying and fixing leakage?

Question 8: General category

- Do you have a leak reduction program?
- Do you have leak tracking program (for example, can you readily retrieve documentation on boric acid corrosion findings and repairs performed by your maintenance crews)?
- How do you follow through any leakage repaired to ensure that leakage has been stopped?
- Do you investigate if you see any bulging of insulation?
- How do you address the question of minute leak (for example, the leak may be within allowable TS, but can not be detected by installed monitors)?

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