

## NRR-PMDAPEm Resource

---

**From:** Thompson, Jon  
**Sent:** Wednesday, May 18, 2011 2:31 PM  
**To:** Hart, Randy  
**Cc:** Rudy, Lawrence J  
**Subject:** Questions on Catawba Unit 2 EOC17 Steam Generator Outage Summary

REQUEST FOR ADDITIONAL INFORMATION  
CATAWBA NUCLEAR STATION, UNIT 2  
2010 STEAM GENERATOR TUBE INSPECTIONS  
TAC No. ME5834  
DOCKET No. 50-414

By letters dated January 19 (ADAMS Accession No. ML110200322) and April 5, 2011 (ADAMS Accession No. ML110980601), Duke Power Company, LLC (the licensee), submitted information summarizing the results of the 2010 steam generator tube inspections at Catawba Nuclear Station Unit 2. These inspections were performed during refueling outage 17 (RFO 17).

The NRC staff has reviewed the information the licensee provided and determined that the following additional information is needed in order to complete the review.

1. Please discuss the results of the visual inspection of the plugged tubes (e.g., all plugs present and no degradation detected).
2. Please discuss the scope and results of any secondary side SG inspections. Include in this response the extent to which any degradation was detected (e.g., at the waterbox cap plate, steam drum, feeding, J-tubes), and whether any loose parts were left in the SG. If any loose parts were left in the SGs, please discuss whether an analysis was performed to confirm that tube integrity would be maintained until the next SG tube inspection.  
  
A number of secondary side inspections have been performed since RFO 13. Please discuss the extent to which degradation has been observed in secondary side internals (e.g., waterbox cap plate, moisture separators, feeding) in the last few outages.
3. Please clarify which tube in SG C was plugged for tube support plate wear.
4. Please provide the cumulative effective full power years of operation on the SGs at RFO 16 and RFO 17.
5. A sampling approach is used for inspecting the u-bend region in rows 2 through 5 in the SGs. Please confirm that 50 percent of these u-bend region tubes are inspected by the outage nearest the midpoint, and that 100 percent of these u-bend region tubes are inspected by the endpoint of the period.
6. Please clarify the following sentence: "There was no degradation detected in the portion of the tubes from 20 inches below the top of the tubesheet that resulted in calculated leakage." In particular, please confirm that you are not depth sizing degradation near the tube ends for determining whether the tubes will leak during accident conditions. Please confirm you determined there would be no accident induced leakage from the indications near the tube ends since there was no observed operating leakage in the previous operating cycle.
7. A number of indications at or near the tube support plates were identified during RFO 17. Are all of these indications attributed to wear with the supports, or are some of the indications a result of wear with a loose part or foreign object? Please identify

We usually discuss these on a documented phone call and then issue a summary of the telecon. Please identify a time later in the week of 5/23 that will work for you

Jon Thompson  
US NRC

**Hearing Identifier:** NRR\_PMDA  
**Email Number:** 33

**Mail Envelope Properties** (Jon.Thompson@nrc.gov20110518143000)

**Subject:** Questions on Catawba Unit 2 EOC17 Steam Generator Outage Summary  
**Sent Date:** 5/18/2011 2:30:42 PM  
**Received Date:** 5/18/2011 2:30:00 PM  
**From:** Thompson, Jon

**Created By:** Jon.Thompson@nrc.gov

**Recipients:**  
"Rudy, Lawrence J" <Lawrence.Rudy@duke-energy.com>  
Tracking Status: None  
"Hart, Randy" <Randy.Hart@duke-energy.com>  
Tracking Status: None

**Post Office:**

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	3147	5/18/2011 2:30:00 PM

**Options**  
**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**