



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
MARQUIS ONE TOWER  
245 PEACHTREE CENTER AVENUE, NE  
ATLANTA, GEORGIA 30303-1257

May 18, 2012

Mr. Michael Skaggs  
Senior Vice President  
Nuclear Construction  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

**SUBJECT: RESPONSE TO CORRECTIVE ACTIONS FOR WATTS BAR UNIT 2 NOTICE  
OF VIOLATION (NOV) 05000391/2010603-08**

Dear Mr. Skaggs:

Thank you for Tennessee Valley Authority's (TVA's) participation in the public meeting held by the Office of Nuclear Reactor Regulation (NRR) on October 14, 2011, concerning TVA's corrective actions associated with Notice of Violation 05000391/2010603-08, Failure to Adequately Evaluate and Qualify Molded Case Circuit Breakers.

After further review, the NRC has found that the corrective actions for the violation described in the revised response letter dated June 9, 2011, (ML 11164A141) are inadequate to achieve full compliance with the design control requirements of 10 CFR 50, Appendix B Criterion III. A Task Interface Agreement (TIA) requested that NRR evaluate the bases for the conclusions reached during a corrective action inspection the week of June 27, 2011, in which Region II inspectors determined that TVA had not implemented adequate actions to close the NOV.

The NRR staff, in their response to the TIA (ML12109A428), evaluated TVA's compliance with the requirements in Section 6.4, "Device Testing," of Institute of Electrical and Electronics Engineers Standard (IEEE) 344-1975. In addition, NRR evaluated TVA's configuration control of the 120 VAC vital instrument power boards since its qualification in 1975, and TVA's analysis of the most limiting seismic responses associated with the 120 VAC vital instrument power boards. The NRR staff has determined that the Heinemann molded case circuit breakers were not qualified in accordance with IEEE 344-1975 and has therefore concurred with Region II inspectors that TVA has not implemented adequate corrective actions for the non-conforming condition. Based on this evaluation, the NRC requests that TVA amend their response to the Unit 2 violation with corrective actions that are sufficient to achieve full compliance with NRC regulations in this matter. The NRC further requests that TVA include in the response any short-term operability and long-term corrective actions necessary pursuant to this issue at both WBN Unit 1 and Sequoyah Units 1 and 2. These should specifically address how configuration control has been verified for these components and how applicable IEEE standards are being met for all known Heinemann molded case circuit breaker configurations in safety-related applications.

Pursuant to the provisions of 10 CFR 2.201, Tennessee Valley Authority is hereby required to submit a supplemental response to this NOV to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, DC 20555-0001 with a copy to the Regional Administrator, Region II, and a copy to the NRC Resident Inspector at the facility that is the subject of the Notice, within 30 days of the date of this letter. This reply should be clearly marked as a "Reply to a Notice of Violation" and should include for each violation: (1) the reason for the violation, (2) the corrective steps that have been taken and the results achieved, (3) the corrective steps that will be taken, and (4) the date when full compliance will be achieved. Your response may reference or include previous docketed correspondence, if the correspondence adequately addresses the required response. If an adequate reply is not received within the time specified in this Notice, an order or a Demand for Information may be issued as to why the construction permit should not be modified, suspended, or revoked, or why such other action as may be proper should not be taken. Where good cause is shown, consideration will be given to extending the response time.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and your response will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of the NRC's document system (ADAMS). Adams is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room). Because your response will be made available electronically for public inspection, to the extent possible, it should not include any personal privacy, proprietary, or safeguards information so that it can be made available to the public without redaction. If personal privacy or proprietary information is necessary to provide an acceptable response, then please provide a bracketed copy of your response that identifies the information that should be protected and a redacted copy of your response that delete such information. If you request withholding of such material, you must specifically identify the portions of your response that you seek to have withheld and provide in detail the bases for your claim of withholding (e.g., explain why the disclosure of information will create an unwarranted invasion of personal privacy or provide the information required by 10 CFR 2.390(b) to support a request for withholding confidential commercial or financial information). If safeguards information is necessary to provide an acceptable response, please provide the level of protection described in 10 CFR 73.21.

If you have any questions regarding this correspondence, please contact Mark Lesser at 404-997-4460.

Sincerely,

**/RA/**

Charles R. Ogle, Director  
Division of Construction Inspection

Docket No. 50-391  
License No. CPPR-92

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Sincerely,

**/RA/**

Charles R. Ogle, Director  
Division of Construction Inspection

Docket No. 50-391  
License No. CPPR-92

\* See previous page for concurrence

PUBLICLY AVAILABLE     
  NON-PUBLICLY AVAILABLE     
  SENSITIVE     
  NON-SENSITIVE  
 ADAMS:  Yes   
 ACCESSION NUMBER: ML12139A052   
  SUNSI REVIEW COMPLETE

OFFICE	RII:DCI	RII:DCI	RII:DCP	RII:DCI			
SIGNATURE	*TXN1	*TNF1	*RCH	CRO			
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DATE	4/18/2012	4/18/2012	4/18/2012	5/18/2012	4/ /2012	4/ /2012	4/ /2012
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	

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Letter to Michael Skaggs from Charles R. Ogle dated May 18, 2012

SUBJECT: RESPONSE TO CORRECTIVE ACTIONS FOR NOTICE OF VIOLATION (NOV)  
05000391/2010603-08

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