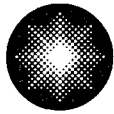


James A. Spina  
Vice President

Calvert Cliffs Nuclear Power Plant, Inc.  
1650 Calvert Cliffs Parkway  
Lusby, Maryland 20657  
410.495.4455  
410.495.3500 Fax



**Constellation Energy®**  
Generation Group

May 31, 2006

U. S. Nuclear Regulatory Commission  
Washington, DC 20555

**ATTENTION:** Document Control Desk

**SUBJECT:** Calvert Cliffs Nuclear Power Plant  
Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318  
60 Days After Plant Restart Responses to NRC Bulletin 2004-01, "Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors"

- REFERENCES:**
- (a) NRC Bulletin 2004-01: Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors, dated May 28, 2004
  - (b) Letter from Mr. K. J. Nietmann (CCNPP) to Document Control Desk (NRC), dated July 27, 2004, Response to NRC Bulletin 2004-01, "Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors"
  - (c) Letter from Mr. G. Vanderheyden (CCNPP) to Document Control Desk (NRC), dated January 27, 2005, Response to NRC Request for Additional Information Regarding our Response to Bulletin 2004-01, "Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors"

The purpose of this letter is to forward Calvert Cliffs Nuclear Power Plant, Inc.'s "60 Days After Plant Restart" response to Request (2)(a) of the Nuclear Regulatory Commission Bulletin 2004-01 (Reference a).

During the spring 2006 Unit 1 refueling outage, Calvert Cliffs performed a bare metal visual examination of the pressurizer penetrations and steam space piping connections fabricated from Alloy 82/182/600 in accordance with the commitment made in response to Bulletin 2004-01 (References b and c). The Alloy 182 butt welds in the steam space piping connections were also ultrasonically examined. The ultrasonic examination was performed in accordance with American Society of Mechanical Engineers Section XI, Appendix VIII, Supplement 10 as implemented through the Performance Demonstration Initiative requirements for the examination of dissimilar metal welds. The examinations revealed no signs of leakage. One pressurizer steam space piping dissimilar metal weld [4CC10-1006(W1)] was found to contain an axial indication. This is one of two 4-inch pressurizer relief nozzle to safe-end welds. The size of the indication met the acceptance standards of the American Society of Mechanical Engineers,

A110

Boiler & Pressure Vessel Code, Section XI, Subsection IWB Subarticle 3500. A stress improvement mitigation technique called "Mechanical Stress Improvement Process" was performed on this location. This method induces compressive stresses on the inside pipe wall where the indications were located. The post-mechanical stress improvement process residual stresses, when added to the normal operating pressure and piping loads, mitigate any further crack propagation due to primary water stress corrosion cracking.

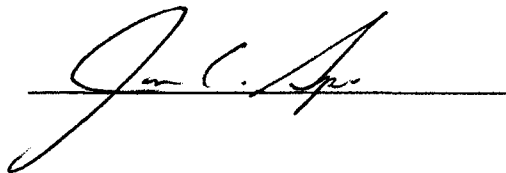
Should you have questions regarding this matter, please contact Mr. L. S. Larragoite at (410) 495-4922.

Very truly yours,



STATE OF MARYLAND :  
: TO WIT:  
COUNTY OF CALVERT :

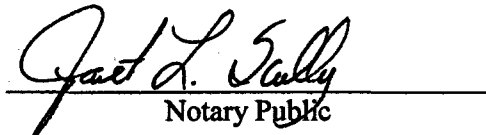
I, James A. Spina, being duly sworn, state that I am Vice President - Calvert Cliffs Nuclear Power Plant, Inc. (CCNPP), and that I am duly authorized to execute and file this response on behalf of CCNPP. To the best of my knowledge and belief, the statements contained in this document are true and correct. To the extent that these statements are not based on my personal knowledge, they are based upon information provided by other CCNPP employees and/or consultants. Such information has been reviewed in accordance with company practice and I believe it to be reliable.



Subscribed and sworn before me, a Notary Public in and for the State of Maryland and County of St. Mary's, this 31<sup>st</sup> day of May, 2006.



WITNESS my Hand and Notarial Seal:



Notary Public

My Commission Expires:

March 25, 2007  
Date

Document Control Desk

May 31, 2006

Page 3

cc: P. D. Milano, NRC  
S. J. Collins, NRC

Resident Inspector, NRC  
R. I. McLean, DNR