

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

November 18, 1982

HTRD-50-518/82-19, -520/82-19  
YCRD-50-566/82-16, -567/82-16  
BLRD-50-438/82-63, -439/82-56  
WBRD-50-390/82-92, -391/82-88

U.S. Nuclear Regulatory Commission  
Region II  
Attn: Mr. James P. O'Reilly, Regional Administrator  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

HARTSVILLE, YELLOW CREEK, BELLEFONTE, AND WATTS BAR NUCLEAR PLANTS  
UNITS 1 AND 2 - SHEARED MOTOR PINION KEYS IN LIMITORQUE MOTOR OPERATORS -  
SECOND INTERIM REPORT

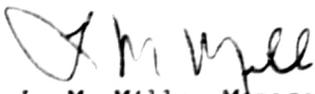
The subject deficiency was initially reported to NRC-OIE Inspector D. Quick on August 30, 1982 in accordance with 10 CFR 50.55(e) as NCR GEN NEB 8209. This was followed by our first interim report dated September 28, 1982.

TVA has elected to defer construction activities on Yellow Creek and Hartsville. Deferral does not mean that the project will be cancelled but that TVA is minimizing its expenditures and construction efforts until such time that TVA has sufficient information to indicate whether the project should be completed or cancelled. Therefore, we will not be submitting further information on Yellow Creek or Hartsville until a final decision is made regarding these projects. Enclosed is our second interim report on Watts Bar and Bellefonte. We expect to submit our next report by May 26, 1983.

If you have any questions concerning this matter, please get in touch with R. H. Shell at FTS 858-2688 for PWRs and J. A. Domer at FTS 858-2725 for BWRs.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

  
L. M. Mills, Manager  
Nuclear Licensing

Enclosure

cc: Mr. Richard C. DeYoung, Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

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ENCLOSURE

HARTSVILLE, YELLOW CREEK, BELLEFONTE, AND WATTS BAR NUCLEAR PLANTS  
UNITS 1 AND 2

SHEARED MOTOR PINION KEYS IN LIMITORQUE MOTOR OPERATORS

NCR GEN NEB 8209

HTRD-50-518/82-19, HTRD-50-520/82-19, YCRD-50-566/82-16, YCRD-50-567/82-16,  
BLRD-50-438/82-63, BLRD-50-439/82-56, WBRD-50-390/82-92, WBRD-50-391/82-88  
10 CFR 50.55(e)

SECOND INTERIM REPORT

Description of Deficiency

Westinghouse has informed TVA by their letter WAT-D-5052, dated August 10, 1982, that six sheared motor pinion keys have been found in Limitorque Model SB-0-25 motor operators. These keys transmit torque from the motor shaft through the pinion gear and ultimately to the valve stem drive nut. The sheared keys were of a lower strength steel (1119 material) than is normally used (1018 material) in the size and type of motor operators which failed. Limitorque has no record of what type of pinion key is installed in any particular motor operator. This is why the nonconformance is considered to be generic to all models and sizes of Limitorque motor operators.

Interim Progress

Westinghouse has informed TVA by their letter WAT-D-5162 that Limitorque concludes that the failures are random and/or that the failures were caused by abuse to the operator. Westinghouse and TVA do not concur with this position. Westinghouse has asked Limitorque to demonstrate why the 1117 material tests apply to the 1119 material or to retest using the 1119 material. Also, Limitorque is to check field records to determine that no other pinion keys have failed in other motor operators and explain the significance of the consecutive serial numbers of the motor operators which failed. Limitorque claims at this time that the consecutive serial numbers have no significance. Limitorque has stated that they have initiated corrective action on their material control procedures to assure that the correct pinion key material (1018) will be provided in their motor operators. TVA will continue to work with Westinghouse in an effort to resolve the sheared motor pinion key problem.