



Tennessee Valley Authority, P.O. Box 2000 Spring City, Tennessee 37381

February 14, 2017

10 CFR 50.73

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Watts Bar Nuclear Plant, Units 1 and 2
Facility Operating License Nos. NPF-90 and NPF-96
NRC Docket Nos. 50-390 and 50-391

Subject: **Cancellation of Licensee Event Report 390/2017-001 Related to Essential Raw Cooling Water Pump Reverse Rotation Keys Representing a Potential Common Cause Inoperability**

Reference: Letter from TVA to NRC, "Licensee Event Report 390/2017-001, Failure of Emergency Raw Cooling Water Pump Reverse Rotation Keys Represents Potential Common Cause Inoperability," dated January 9, 2017

On January 9, 2017, the Tennessee Valley Authority (TVA) submitted Licensee Event Report (LER) 390/2017-001 related to Essential Raw Cooling Water (ERCW) pump reverse rotation keys representing a potential common cause inoperability in accordance with 10 CFR 50.73(a)(2)(vii). This letter is being submitted to cancel (formally withdraw) LER 390/2017-001, consistent with the guidance of NUREG-1022, Revision 3, Sections 2.8 and 5.1.2.

The LER described an issue with the ERCW non-reverse rotation clutch where a number of failures of the clutch keys had occurred in the recent past. The non-reverse clutch prevents the ERCW pump from rotating in the reverse direction after pump trip, which could cause the motor to develop a higher than normal in-rush current if the motor was subsequently started, such as following an accident.

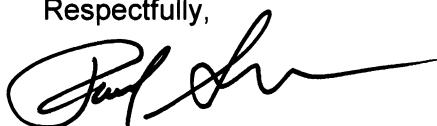
TVA has completed detailed analyses documented in a past operability evaluation to determine if a motor trip would occur if the ERCW pump non-reverse clutch had failed, and the pump was subsequently restarted while turning in the reverse direction. Models were developed and benchmarked against plant data to ensure accuracy. The result is that assuming a subsequent motor start while the ERCW pump was rotating at the highest predicted reverse rotational speed, a motor trip on high current would not occur. Based on these analyses, there is no potential for non-reverse clutch key failures to cause inoperability of the ERCW pumps.

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Therefore, TVA has concluded WBN did not have a potential common cause inoperability of the ERCW system and this condition is not reportable under 10 CFR 50.73(a)(2)(vii). LER 390/2017-001 is being cancelled, and the LER No. 2017-001 will not be reused for Docket No. 50-390. This LER also reported that a supplemental LER was anticipated. This cancellation eliminates the need for that supplement.

There are no regulatory commitments contained in this letter. Should you have questions regarding this cancellation, please contact G. P. Arent, Licensing Director, at (423) 365-2004.

Respectfully,

A handwritten signature in black ink, appearing to read 'Paul Simmons', with a long horizontal flourish extending to the right.

Paul Simmons
Site Vice President
Watts Bar Nuclear Plant

cc: NRC Regional Administrator – Region II
NRC Senior Resident Inspector – Watts Bar Nuclear Plant