

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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HODGES, W. NRC - No Detailed Affiliation Given

SUBJECT: "HPCI Test Results for STEAR 8211 - HPCI Temporary Startup  
 Mods, Browns Ferry Nuclear Plant, 840201," W/850530 ltr.

"see repts"  
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**TENNESSEE VALLEY AUTHORITY**

CHATTANOOGA, TENNESSEE 37401

1300 Chestnut Street Tower II

May 30, 1985

Mr. Wayne Hodges  
Nuclear Regulatory Commission  
Room P-1132  
Washington, DC 20555

Dear Mr. Hodges:

Enclosed is a copy of the test results for the HPCI system on unit 2 at Browns Ferry Nuclear Plant as requested by Phil Washer, of our NSRS staff. This is my copy of the original before all the proper signatures were obtained. The test results are accurate and complete. If you have any questions, please feel free to contact me at (615) 751-4779 in Chattanooga between 8:30 a.m. and 4:30 p.m. Eastern time.

Sincerely,

TENNESSEE VALLEY AUTHORITY



Jon Souto  
Vibration and Diagnostic Section

Enclosure

A001  
1/1

G. T. Jones, Power Plant Superintendent, Browns Ferry Nuclear Plant

P. R. Wallace, Manager, Nuclear Production, 1760 CST2-C

5/24/84

BROWNS FERRY NUCLEAR PLANT UNIT 2 - HIGH-PRESSURE COOLANT INJECTION (HPCI)  
TEST RESULTS FOR STEAR 8211

Attached is the unit 2 HPCI test report for STEAR 8211 performed February 1 through February 14, 1984. The modifications and adjustments specified in STEAR 8211 changed the governor valve position during startup to admit less steam to the HPCI turbine as the stop valve leaves its seat. This improved governor valve opening sequence resulted in a smoother startup transient and decreased the initial speed overshoot from approximately 3400 rpm to 1500 rpm without increasing the time to rated flow. Pressure surges were also significantly reduced with the governor valve closed startup modification.

Based on these test results, the startup modification specified in STEAR 8211 should be installed on the units 1 and 3 HPCI systems. However, the availability of spare electrical components such as the HPCI ECM control box, RGSC module, and EG-R hydraulic actuator should be checked; at least three of each should be in Power Stores stock before modifying another unit.

Furthermore, as recommended by Jim Kelso, of General Electric Company (GE), and Steve Beckman, of Terry Turbine, the Terry governor calibration instructions should be used instead of EMI-36 as the calibration procedure even if the startup modification is not installed. If the Terry procedure has not yet been changed to include TVA signoffs, data sheets, etc., and has not been PORC approved, then STEAR 8211 Appendix E can be used for the modification work.

A HPCI task force meeting will be held June 22, 1984 at Browns Ferry in classroom C of the administration building from 9:00 a.m. CDT to 11:00 a.m. CDT. Recent system performance, the startup modification test results, and any additional problems and recommendations concerning HPCI will be addressed at this meeting.

P. R. Wallace

JAT:NTM:CAM:JLR  
Attachment  
cc: See page 2

G. T. Jones

BROWNS FERRY NUCLEAR PLANT UNIT 2 - HIGH-PRESSURE COOLANT INJECTION (HPCI)  
TEST RESULTS FOR STEAR 8211

cc (Attachment):

NUC PR ARMS, 1520 CST2-C

W. S. Wilburn, 1410 CST2-C

*JS*  
This was prepared principally by J. J. Souto.

A1094B.SD

bc (Attachment):

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Jim Kincaid, W9C166 C-K

Rick McColl, W7A27 C-K

Jim Roche, 1240 CST2-C

Bill Thomison, Browns Ferry

Jim Traglia, Browns Ferry

Charlie Wages, Browns Ferry

COORDINATION: BFN/Widick and Thomison; NCO/Thomas and Holland