

Limitorque®

Limitorque Corporation

Automated Valve Actuators and Jacks for Industry

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October 20, 1989

U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

ATTENTION: Director, Nuclear Reactor Regulations

SUBJECT: 10 CFR Part 21 Notification
SMC-04 Mounted on an HOBC

Be advised that Limitorque has concluded its evaluation of data discovered in providing a valve actuator documentation package and concluded that there is a potential that equipment provided may not perform as expected. Therefore, pursuant to the requirements of 10 CFR Part 21, herein provided is notification of a defect in Limitorque's supplied actuators.

Identification Of Basic Component

The equipment in question is an SMC-04 mounted on an HOBC, furnished on Limitorque's order number 3F1314-A. Texas Utilities valve tag #X HV-5828-E and X-HV-5825E serial numbers M002310 and M002309.

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Nature Of The Defect

On performing the applications review for your documentation package, we identified a transposition error in the actuator sizing calculations. The result is the available output torque at the minimum voltage is less than that required to trip the torque switch at its minimum setting. This particular application is designed for position seating where the position limit switch controls the open and close positions of the valve and the torque switch acts purely as a overload protection device. Therefore, at the minimum voltage the valve and actuator would not have torque switch protection.

There is also a possibility that the actuator may not be capable of providing the required design torque at the minimum voltage condition, however this determination could not be made because the valve manufacturer did not provide a torque requirement on his purchase order.

Equipment Effected

There are two actuators in question. Both are furnished on Limitorque's order number 3F1314-A with a model designation of SMC-04/HOBC.

Licensee Corrective Action

Texas Utilities should determine the valve torque and operating time requirements and forward this information to Mr. Dan Warsing, Limitorque's Technical Manager. Limitorque will perform an application review and provide alternatives for modifying the actuators to meet these requirements.

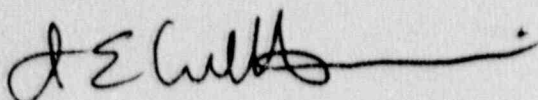
Limitorque Corrective Action

Limitorque has concluded that this error is an isolated case which was not detected by the independent review process. We have not experienced any similar occurrences.

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Part 21 Notification

A copy of this Part 21 Report is being forwarded to the NRC under a separate cover letter.

Signed:

A handwritten signature in black ink, appearing to read "I. E. Wilkinson", with a long horizontal flourish extending to the right.

I. E. Wilkinson
Vice President of Engineering

LIMITORQUE CORPORATION

cc: Mr. Mignogna
Mr. Kornsey
Part 21 Notification File