

AUG 18 '93 04:52PM LIMITORQUE

P.1

Limitorque®

# Limitorque Corporation

Automated Valve Actuators and Jacks for Industry

5114 Woodall Road • P.O. Box 11318 • Lynchburg, VA 24506-1318  
Telephone (804) 528-4400 • FAX (804) 845-9736

August 18, 1993

NRC Operations Center

FAX: 301-492-8187

SUBJECT: Interim Report  
Limitorque Corporation 10 CFR21 Evaluation #44  
Worm Shaft Clutch #60-501-0012-1

REFERENCE: July 19, 1993 Interim Report (attached)

Limitorque metallurgically analyzed the five component samples submitted by Houston Lighting and Power. The analysis verified that all five components were of proper material and heat treatment process.

The component that had failed was installed in an SB-1 actuator assembled in May, 1978. This actuator is identified as Limitorque Order No. 3B5991-B w/S/N 273065. Three of the five component samples returned from Houston Lighting and Power were supplied in the May, 1978 time frame and were installed in SB-1 actuators identified as:

Limitorque Order No. 3B5991-B, S/N 273066  
Limitorque Order No. 3B5991-B, S/N 273069  
Limitorque Order No. 3B5991-B, S/N 273070

The remaining two components were installed in SB-1 actuators supplied in 1985 identified as:

Limitorque Order No. 3K8941-A, S/N L376578  
Limitorque Order No. 3M5830-B, S/N L381055

This incident is considered an isolated event. However, recognizing the need for a larger database, Limitorque will advise all utilities of this occurrence and request that any similar failures that have occurred be reported to Limitorque with the identifying actuator serial number. This information will be transmitted via Limitorque Maintenance Update 93-1 scheduled for August 27, 1993, distribution. Limitorque will review all reported data and

advise NRC as appropriate. An interim report will be submitted no later than February 18, 1994 (approximately 6 months).

Very truly yours,

LIMITORQUE CORPORATION

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

I. E. Wilkinson, P.E., Ph.D.  
Vice President, Engineering

jh

pc: T. S. Mignogna  
P. G. McQuillan