

UNITED STATES DEPARTMENT OF COMMERCE National Bureau of Standards

50-184

November 7, 1978

Mr. Victor Stello
Director, Division of
Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Stello:

On November 2, 1978, during routine surveillance testing, shim arm No. 1 had a drop time of 180 msec for the first 5° which is 5 msec longer than the acceptable 175 msec. The tests were repeated the following day and the drop times ranged from about 175 to 190 msec. Examination of the drop trace showed the delay was due to slightly longer clutch release time which means that the armature (clutch disc) was not leaving the field fast enough. Examination of the drive assembly did not show anything significant. It was possible that the armature may have been slightly cocked which could be a small contributing factor.

The assembly was removed. The snap ring on the armature hub was replaced with a more uniform support. The thin cadmium coating between the armature and hub was removed and the surfaces polished in order to allow freer movement. The assembly was reinstalled and tested. The 5° drop time was an acceptable 160 msec.

Sincerely,

Robert S. Carter

Berent & Lotte

Chief, Reactor Radiation Division

cc: Director, Region 1, U.S. NRC

-811210 320-S NOZO