NUCLEAR ENERGY INSTITUTE

R. Clive Callaway
PROJECT MANAGER,
ENGINEERING

October 4, 1995

Mr. Richard H. Wessman, Chief
Mechanical Engineering Branch
Division of Engineering
Office of the Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT: Transmittal of Proprietary EPRI MOV Pr[illegible]n Report

Dear Mr. Wessman:

We are pleased to provide to you three (3) copies of the following document:

TR-103233, "Stem Thrust Prediction Methods for Westinghouse Flexible Wedge Gate Valves", September, 1995

This report in Enclosure 1 is provided as supplemental information to assist in NRC review of the EPRI MOV Performance Prediction Program Topical Report.

Please provide one copy of this report to Mr. T. Scarbrough of the NRC Office of Nuclear Reactor Regulation and one copy to Dr. G. Weidenhamer of the NRC Office of Nuclear Regulation Research. We are also sending a copy of this report to Mr. Robert Steele at the Idaho National Engineering Labs to expedite his review.

These report is being transmitted under a "Request for Withholding of Documents: 10 CFR 2.790(a)(4)," (Enclosure 2) executed by EPRI with an accompanying letter and affidavit (Enclosure 3).

Please note that this report, dated September 1995, supersedes the report of the same title submitted previously. The thrust predication methodology described in the current version of the report has been changed slightly from the previous report. In particular, the methodology now requires that, for a particular class of valves, an effective area slightly larger than the mean seat area must be used to calculate the differential pressure force on the disk. The details are described in the last paragraph on page 3-10 and the first paragraph on 3-11. Other changes are:

DFPI 1/1
Ltr-Encl.

RO-8-2 EPRI
& O&M-7 NEI

change: NRC PDR 1 INP
NOAC 1 INP

1776 I STREET, NW SUITE 400 WASHINGTON, DC 20006-3708 PHONE 202 739 8000 FAX 202 785 4019

REVGP FDP

- The validation calculations for valve #16 were revised. This is the only validation calculation which was affected by the change;
- The Worksheet (Appendix A) was revised to reflect the new methodology;
- The sample problem (Appendix G) was revised to reflect the new methodology; and,
- Appendix F was modified to show the details of the effective area calculation.

If you have any questions concerning the methodology, please contact Mr. Hosler at (415) 855-2785.

Sincerely,

Clive Callaway

RCC/ead
Enclosures

c: NRC Document Control Desk (w/o enclosures)