

MRP

Materials Reliability Program _____ MRP 2001-052

July 10, 2001

Document Control Desk
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852

Attention: Mr. Jim Tatum

Subject: "Resolution of Generic Letter 96-06 Waterhammer Issues", EPRI Report
TR-113594-V1 & V2, Revised Sections

Enclosed are twelve (12) copies of the revised sections of the document "Resolution of Generic Letter 96-06 Waterhammer Issues", EPRI Interim Report TR-113594--V1 & V2, December 2000. Specifically, Section 5.2.2 and 5.2.3 of Volume 1 (User's Manual) and Sections 6 and 8 of Volume 2 (the Technical Basis Report) are enclosed. The other sections of the report are essentially unchanged from the earlier transmittal and will only have editorial changes made prior to final submittal.

This information is being submitted as a means of exchanging information with the NRC for the purpose of supporting industry resolution of GL 96-06 Waterhammer Issues. The specific modifications to the sections noted were made to address issues raised by the ACRS Thermal Hydraulic Subcommittee at our meeting on January 16, 2001. The questions specifically raised were:

1. Limit of test apparatus for determination of air release fraction.
2. Determination of the "h" in the "hA" term (this was backed out of the test data; perhaps a Table listing the various values of "h" for the tests would be useful).
3. Scale-up of the test data (the suggestion here was to conduct some sort of sensitivity study).

The report sections that are modified include the results of additional air-release testing that has been performed to determine the amount of air released during the GL96-06 transient. The test methods and results are documented in the modification to the Volume 2 Section 6. The modified method to calculate air release for a specific plant application is provided in Volume 1 Section 5.2.3.

The "h" values for the test data are documented in the revised Volume 2 Section 8. A sensitivity study of both the Method of Characteristics (MOC) and Rigid Body Model (RBM) to the "h" values was performed and is documented in the revised Volume 2 Section 8. Additional work also was performed on scaling for pipe diameter (see Section 8.3.6).

Please note that the enclosed document contains proprietary information. Therefore, a letter requesting the report be withheld from public disclosure and an affidavit describing the basis for withholding this information is provided as Attachment 1.

We will plan to meet with the NRR Staff and the ACRS on August 23, 2001 to discuss the material that is attached. If you have any questions on the enclosed document or the general subject it addresses, please call me at 919-546-7959 or Avtar Singh at 650-855-2384.

Sincerely,



Vaughn Wagoner

Carolina Power & Light Company

Chairman, EPRI Waterhammer Project Utility Advisory Group

September 22, 1999

Document Control Clerk
U.S. Nuclear Regulatory Commission
OWFN 11555 Rockville Pike
Rockville, MD 20782

Subject: TR-113594-V1 and TR-113594-V2, "Resolution of Generic Letter GL 96-06 Water Hammer Issues", July 1999.

Dear Sir or Madam:

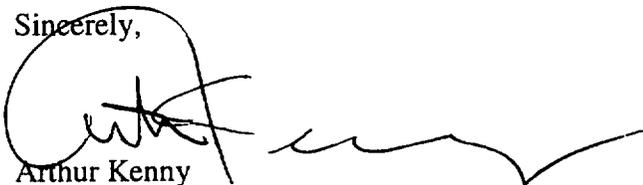
This request under 10CFR2.790(a)(4) for the NRC to withhold from public disclosure information enclosed in the affidavit, which consist of EPRI owned Proprietary Information and is identified above as the Report, ("Report"). A copy of the Report and the affidavit in support of this request are enclosed.

EPRI desires to disclose the Report in confidence to the NRC as a means of exchanging information with the NRC for purposes of developing a resolution and technical basis for inspecting GL 96-06 Water Hammer issues.

The enclosed Report is for the NRC's internal use and may only be used for this purpose. The Report should not be used otherwise or disclosed to any person outside the NRC without prior written permission from EPRI. In addition, EPRI welcomes any discussions with the NRC relating to the Report.

If you have any questions about the legal aspects of this request for withholding, please do not hesitate contacting me at (650) 855-2845. Any technical questions on the Report's contents should be directed to Avtar Singh of EPRI at (650) 855-2384.

Sincerely,



Arthur Kenny
Intellectual Property Counsel
EPRI, Inc.

Encl. ()

cc: Avtar Singh, EPRI

AFFIDAVIT

RE: TR-113594-V1 and TR-113594-V2, "Resolution of Generic Letter GL 96-06 Water Hammer Issues", July 1999.

I, ARTHUR KENNY, being duly sworn, depose and state as follows:

I am an attorney at the Electric Power Research Institute ("EPRI") and I have been specifically delegated responsibility for the report listed above that is sought under this affidavit to be withheld (the "Report") and authorized to apply for their withholding on behalf of EPRI. This affidavit is submitted to the Nuclear Regulatory Commission ("NRC") pursuant to 10CFR2.790(a)(4) based on the fact that the Report consists of trade secrets of EPRI and that the NRC will receive the Report from EPRI under privilege and in confidence.

The basis for which the Report should be withheld from the public is set forth below:

(i) The Report has been held in confidence by EPRI, its owner. All those accepting copies of the Report must agree to preserve the confidentiality of the Report.

(ii) The Report is of a type customarily held in confidence by EPRI and there is a rational basis therefor. The Report is of a type that EPRI considers to be trade secrets and is held in confidence by EPRI because to disclose it would prevent EPRI from licensing the Report at fees which would allow EPRI to recover its investment. If consultants and other businesses providing services in the electric/nuclear power industry were able to publicly obtain the Report, they would be able to use it commercially for profit and avoid spending the large amount of money that EPRI was required to spend to prepare the Report. The rational basis that EPRI has for classifying Report as a trade secrets is the Uniform Trade Secrets Act which California adopted in 1984 and which has been adopted by over twenty states. The Uniform Trade Secrets Act defines a "trade secret" as follows:

"Trade secret" means information, including a formula, pattern, compilation, program, device, method, technique, or process, that:

(1) Derives independent economic value, actual or potential, from not being generally known to the public or to other persons who can obtain economic value from its disclosure or use; and

(2) Is the subject of efforts that are reasonable under the circumstances to maintain its secrecy.

(iii) The Report will be transmitted to the NRC in confidence.

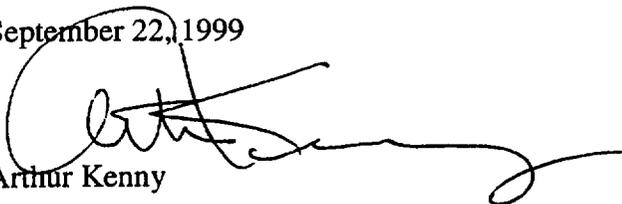
(iv) The Report is not available in public sources. EPRI developed the Report only after making a determination that the Report was not available from public sources. It required a large expenditure of dollars for EPRI to develop the Report. In addition, EPRI was required to use a large amount of time of EPRI employees. The money spent, plus the value of EPRI's staff time in preparing the Report, show that the Report is highly valuable to EPRI. Finally, the Report was developed only after a long period of effort of at least several months.

(v) A public disclosure of the Report would be highly likely to cause substantial harm to EPRI's competitive position and the ability of EPRI to license the Report both domestically and internationally. The Report can be properly acquired or duplicated by others only with an equivalent investment of time and effort.

I have read the foregoing and the matters stated therein are true and correct to the best of my knowledge, information and belief. I make this affidavit under penalty of perjury under the laws of the United States of America and under the laws of the State of California.

Executed at 3412 Hillview Avenue, Palo Alto, being the premises and place of business of the Electric Power Research Institute:

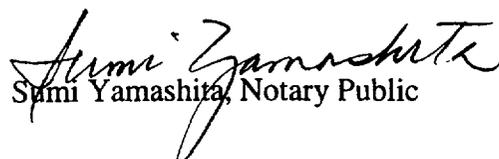
September 22, 1999



Arthur Kenny

Subscribed and sworn before me this day:

September 22, 1999



Sumi Yamashita, Notary Public

