



Docket No.: STN-50-470F

February 28, 1983  
LD-83-010

Mr. Darrell G. Eisenhut, Director  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Subject: CESSAR-SER Confirmatory Item 7, Statistical Combination of  
Uncertainties

References: (A) Letter LD-82-079, A. E. Scherer to D. G. Eisenhut, dated  
October 8, 1982  
(B) Letter LD-82-054, A. E. Scherer to D. G. Eisenhut, dated  
May 14, 1982

Dear Mr. Eisenhut:

Transmitted herewith are twenty five (25) proprietary and fifteen (15) non-proprietary copies of "Statistical Combination of Uncertainties Part II, Uncertainty Analysis of Limiting Safety Settings for C-E System 80" Nuclear Steam Supply Systems" and twenty five (25) proprietary and fifteen (15) non-proprietary copies of "Statistical Combination of Uncertainties Part III, Uncertainty Analysis of Limiting Conditions for Operation for C-E System 80 Nuclear Steam Supply Systems".

These reports were previously submitted via Reference (A) without the final numerical values for the overall uncertainties on the Limiting Safety System Settings and Limiting Conditions for Operation for System 80. This was done to allow the Staff to proceed with its review, since the methodology is virtually identical to that reviewed by the Staff on four previous dockets involving Combustion Engineering's (C-E's) nuclear steam supply systems. The enclosures are identical to those reports provided in Reference (A) except for inclusion of the final numerical values and the addition of section A.4 discussing modeling errors. The enclosures supersede the Reference (A) reports in their entirety. We therefore request that all reports submitted by Reference (A) be returned to us.

Part I, submitted via Reference (B), presents the statistical combination of system parameter uncertainties in thermal margin analysis and is not affected by the changes provided here.

E003  
1/25 Prop Parts II & III  
1/15 Non Prop Parts II & III

Change: PDR  
NTIS  
NSIC } Non Prop Only  
Parts II & III

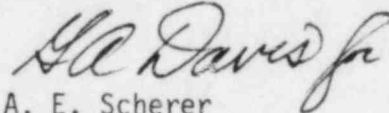
8303030647 830228  
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PDR

Due to the proprietary nature of the material contained in the enclosures, we request that it be withheld from public disclosure in accordance with the provisions of 10 CFR 2.790 and that this material be safeguarded. The reasons for the proprietary classification of these reports are delineated in the enclosed affidavit.

If I can be of any additional assistance in this matter, please contact me or Mr. G. A. Davis of my staff at (203)688-1911, Extension 2803.

Very truly yours,

COMBUSTION ENGINEERING, INC.



A. E. Scherer  
Director  
Nuclear Licensing

AES:dms

Enclosures:      Enclosure 1-P to LD-83-010, "Statistical Combination of Uncertainties Part II, Uncertainty Analysis of Limiting Safety System Settings for C-E System 80 Nuclear Steam Supply Systems", Proprietary Version (Copies 000001-0000025)

Enclosure 1-NP to LD-83-010, "Statistical Combination of Uncertainties Part II, Uncertainty Analysis of Limiting Safety System Settings for C-E System 80 Nuclear Steam Supply Systems", Non-Proprietary Version (15 Copies)

Enclosure 2-P to LD-83-010, "Statistical Combination of Uncertainties Part III, Uncertainty Analysis of Limiting Conditions for Operation for C-E System 80 Nuclear Steam Supply Systems", Proprietary Version (Copies 000001-0000025)

Enclosure 2-NP to LD-83-010, "Statistical Combination of Uncertainties Part III, Uncertainty Analysis of Limiting Conditions for Operation for C-E System 80 Nuclear Steam Supply Systems", Non-Proprietary Version (15 Copies)

Affidavit attesting to the proprietary nature of these reports.

AFFIDAVIT PURSUANT

TO 10 CFR 2.790

Combustion Engineering, Inc.       )  
State of Connecticut                )  
County of Hartford                 )    SS.:

I, A. E. Scherer depose and say that I am the Director, Nuclear Licensing of Combustion Engineering, Inc., duly authorized to make this affidavit, and have reviewed or caused to have reviewed the information which is identified as proprietary and referenced in the paragraph immediately below. I am submitting this affidavit in conformance with the provisions of 10 CFR 2.790 of the Commission's regulations for withholding this information.

The information for which proprietary treatment is sought is contained in the following document:

Enclosure 1P to LD-83-010, "Statistical Combination of Uncertainties Part II, Uncertainty Analysis for C-E System 80 Nuclear Steam Supply Systems".  
Enclosure 2P to LD-83-010, "Statistical Combination of Uncertainties Part III, Uncertainty Analysis of Limiting Conditions for Operation for C-E System 80 Nuclear Steam Supply Systems".

This document has been appropriately designated as proprietary.

I have personal knowledge of the criteria and procedures utilized by Combustion Engineering in designating information as a trade secret, privileged or as confidential commercial or financial information.

Pursuant to the provisions of paragraph (b) (4) of Section 2.790 of the Commission's regulations, the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure, included in the above referenced document, should be withheld.

1. The information sought to be withheld from public disclosure is the application of statistical methods in combining measurement uncertainties associated with Limiting Safety System Settings and Limiting Conditions for Operation of Combustion Engineering's Nuclear Steam Supply Systems, which is owned and has been held in confidence by Combustion Engineering.

2. The information consists of test data or other similar data concerning a process, method or component, the application of which results in a substantial competitive advantage to Combustion Engineering.

3. The information is of a type customarily held in confidence by Combustion Engineering and not customarily disclosed to the public. Combustion Engineering has a rational basis for determining the types of information customarily held in confidence by it and, in that connection, utilizes a system to determine when and whether to hold certain types of information in confidence. The details of the aforementioned system were provided to the Nuclear Regulatory Commission via letter DP-537 from F.M. Stern to Frank Schroeder dated December 2, 1974. This system was applied in determining that the subject documents herein are proprietary.

4. The information is being transmitted to the Commission in confidence under the provisions of 10 CFR 2.790 with the understanding that it is to be received in confidence by the Commission.

5. The information, to the best of my knowledge and belief, is not available in public sources, and any disclosure to third parties has been made pursuant to regulatory provisions or proprietary agreements which provide for maintenance of the information in confidence.

6. Public disclosure of the information is likely to cause substantial harm to the competitive position of Combustion Engineering because:

a. A similar product is manufactured and sold by major pressurized water reactors competitors of Combustion Engineering.

b. Development of this information by C-E required thousands of manhours and hundreds of thousands of dollars. To the best of my knowledge and belief a competitor would have to undergo similar expense in generating equivalent information.

c. In order to acquire such information, a competitor would also require considerable time and inconvenience related to applying the method of statistical combination to the overall uncertainty analysis for operation of a nuclear steam supply system.

d. The information required significant effort and expense to obtain the licensing approvals necessary for application of the information. Avoidance of this expense would decrease a competitor's cost in applying the information and marketing the product to which the information is applicable.

e. The information consists of the unique use of statistical methods in the overall uncertainty analysis for operation of nuclear reactors, the application of which provides a competitive economic advantage. The availability of such information to competitors would enable them to modify their product to better compete with Combustion Engineering, take marketing or other actions to improve their product's position or impair the position of Combustion Engineering's product, and avoid developing similar data and analyses in support of their processes, methods or apparatus.



f. In pricing Combustion Engineering's products and services, significant research, development, engineering, analytical, manufacturing, licensing, quality assurance and other costs and expenses must be included. The ability of Combustion Engineering's competitors to utilize such information without similar expenditure of resources may enable them to sell at prices reflecting significantly lower costs.

g. Use of the information by competitors in the international marketplace would increase their ability to market nuclear steam supply systems by reducing the costs associated with their technology development. In addition, disclosure would have an adverse economic impact on Combustion Engineering's potential for obtaining or maintaining foreign licensees.

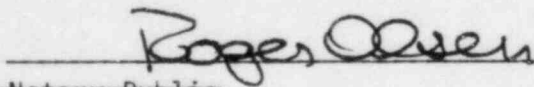
Further the deponent sayeth not.



A. E. Scherer  
Director  
Nuclear Licensing

Sworn to before me

this 28 day of Feb. 1983

  
~~Notary Public~~  
Justice of The Peace