



May 16, 1980
LD-80-024

Mr. James R. Miller, Chief
Standardization & Special Projects Branch
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Revision 1 to CENPD-153, "Evaluation of Uncertainty in the
Nuclear Power Peaking Measured by the Self-Powered, Fixed
In-Core Detector System"

- References: (A) Letter LD-75-331, W. R. Corcoran to O. D. Parr,
dated May 5, 1975.
- (B) Letter LD-74-533, W. R. Corcoran to O. D. Parr,
dated December 3, 1974.
- (C) Letter LD-79-057, A. E. Scherer to R. Baer,
dated September 14, 1979.

Dear Mr. Miller:

This letter transmits forty (40) copies of Revision 1-P (proprietary) and twenty (20) copies of Revision 1-NP (non-proprietary) of CENPD-153 for NRC review. The report includes material originally submitted to the staff as CENPD-145-P, "INCA - A Method of Analyzing In-Core Detector Data in Power Reactors," (submitted via Reference A); and CENPD-153-P, "Evaluation of Uncertainty in the Nuclear Form Factor Measured by Self-Powered Fixed In-Core Detector Systems," (submitted via Reference B). Combustion Engineering (C-E) has discussed the revised format with the staff reviewers and documented the method of combining the two reports in Reference (C). We expect that the format of Revision 1 to CENPD-153-P will provide a more coherent and comprehensive study of the determination of power distribution measurement uncertainties.

Revision 1 to CENPD-153-P supersedes both CENPD-145-P and CENPD-153-P and represents a significant expansion of the data base used in generating the overall uncertainty. C-E, therefore, requests that the staff

NONE
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see LIST

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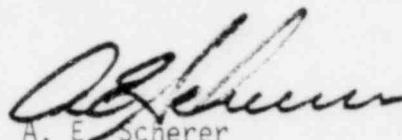
remove all earlier versions of both reports and any amendments thereto from circulation to prevent confusion and possible misapplication of the previous submittals.

Due to the proprietary nature of the material contained in Revision 1-P to CENPD-153-P 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 this report are delineated in the enclosed affidavit.

If any questions arise concerning the revised format or contents of the enclosed report, please do not hesitate to contact me or Ms. J. C. Ennaco of my staff at (203)688-1911, Extension 2595.

Very truly yours,

COMBUSTION ENGINEERING, INC.



A. E. Scherer
Director
Nuclear Licensing

AES:dag

cc: Mr. R. J. Schemel, NRC (w/encl., copy 000041 of Revision 1-P)
Mr. D. B. Fieno, NRC (w/encl., copy 000042 of Revision 1-P)

Enclosures: Affidavit attesting to the proprietary nature of
Revision 1-P to CENPD-153-P.
Revision 1-P (proprietary) to CENPD-153-P, copies
000001 thru 000040.
Revision 1-NP (non-proprietary) to CENPD-153-NP, 20 copies.

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:

Revision 1 to CENPD-153-P, Evaluation of Uncertainty in the Nuclear Power Peaking Measured by the Self-Powered Fixed In-Core Detector System.

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 methodology related to the determination of power distribution measurement uncertainties and the statistical models used to determine the uncertainty estimate, 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 tens of thousands of man-hours 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 the development of methodologies and statistical models for the calculation of uncertainties and the accumulation of a significant data base.

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.

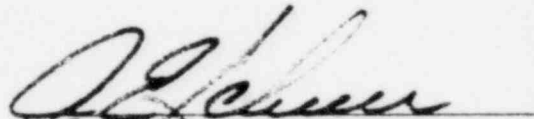
e. The information consists of methodologies and statistical models for the determination of power distribution measurement uncertainties, and the results thereof the application of which provides a competitive economic advantage. The availability of such information to competitors would enable them 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.

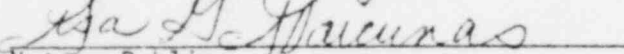

A. E. Scherer

Director

Nuclear Licensing

Sworn to before me

this 16th day of May, 1980


Notary Public

LISA G. WAICUNAS, NOTARY PUBLIC
State of Connecticut No. 54492
Commission Expires March 31, 1983