

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8801120279 DOC. DATE: 87/12/31 NOTARIZED: NO DOCKET #  
 FACIL: STN-50-528 Palo Verde Nuclear Station, Unit 1, Arizona Publi 05000528  
 AUTH. NAME AUTHOR AFFILIATION  
 VAN BRUNT, E. E. Arizona Nuclear Power Project (formerly Arizona Public Serv  
 RECIP. NAME RECIPIENT AFFILIATION  
 LICITRA, E. A. NRC - No Detailed Affiliation Given

SUBJECT: Forwards proprietary Engineering Calculation 77-RCP-R01-008,  
 "Shaft Design Calculation," per request. Encl withheld  
 (ref 10CFR2.790(b)(4)).

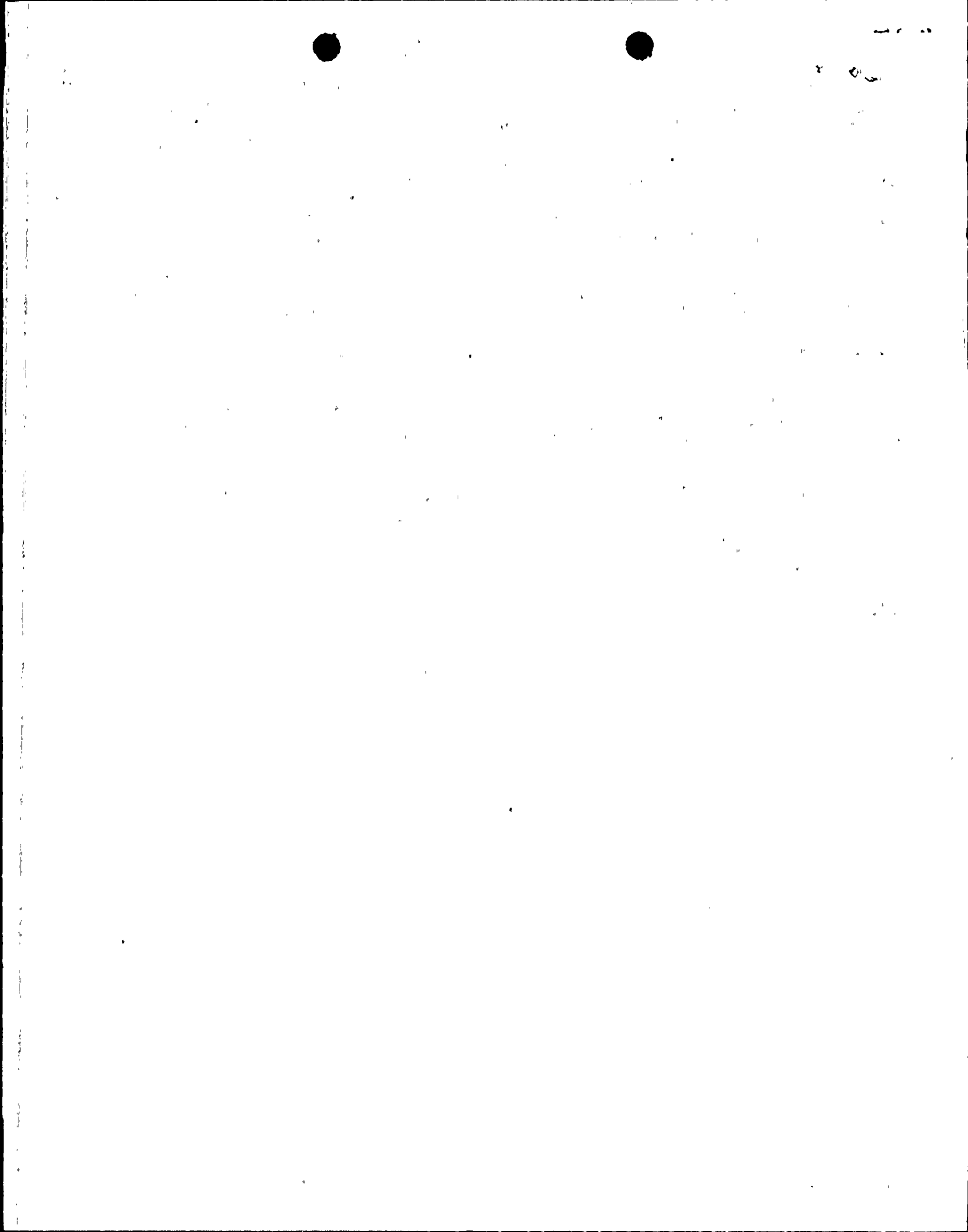
DISTRIBUTION CODE: PA01D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 5+35  
 TITLE: Proprietary Review Distribution-Operating Reactor

NOTES: Standardized plant.

05000528

*Withholding Granted 10/24/88 # 881102002*

	RECIPIENT		COPIES			RECIPIENT		COPIES	
	ID CODE/NAME		LTR	ENCL		ID CODE/NAME		LTR	ENCL
	PD5 LA #8		1	1		PD5 PD #7		1	1
	LICITRA, E #9,10,11		3	3		DAVIS, M #4,5,6		3	3
INTERNAL:	ACRS #127HM #17		6	6		AEOD/DOA #3		1	1
	AEOD/DSP/TPAB #2		1	1		OGC/HDS1		1	0
	REG FILE #1		1	1					
EXTERNAL:	LPDR		1	0		NRC PDR		1	0
NOTES:			1	1					





## Arizona Nuclear Power Project

P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

December 31, 1987  
161-00726-EEVB/JRP

Docket Nos. STN 50-528/529/530

U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: E. A. Licitra

Dear Mr. Licitra:

Subject: Palo Verde Nuclear Generating Station (PVNGS)  
Units 1, 2 and 3  
Shaft Design Calculation  
File: 87-A-056-026

Enclosed please find one copy (Copy No. 000002) of Engineering Calculation No. 87-RCP-R01-008, "Shaft Design Calculation" as per your request.

Please note that this information is considered proprietary to CE and is being submitted with an affidavit in conformance with the provisions of 10CFR2.790(b)(4) of the Commission's regulations for withholding such information.

Should you have any questions, please call.

Very truly yours,

E. E. Van Brunt, Jr.  
Executive Vice President  
Project Director

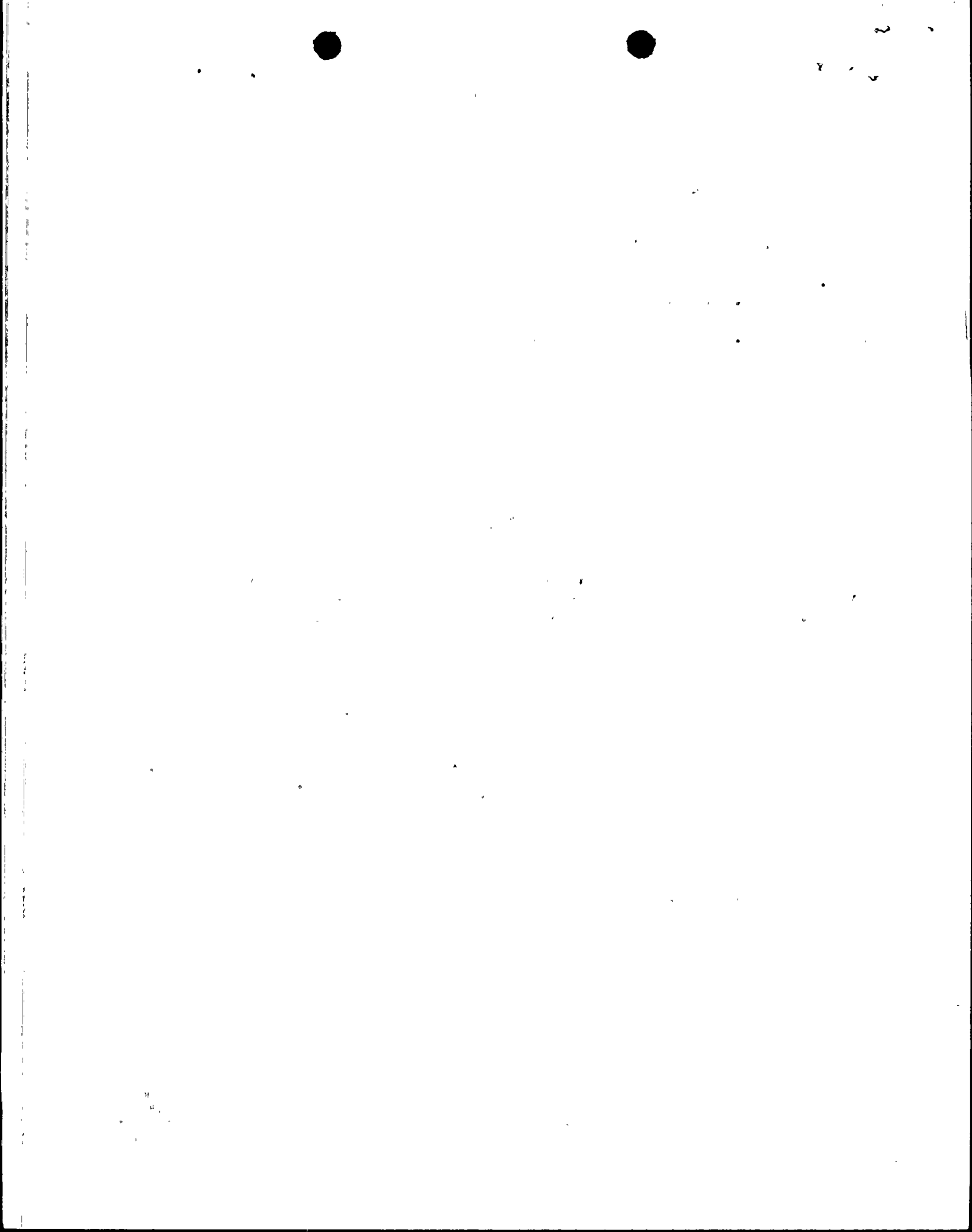
EEVB/JRP/cal

Enclosure (Proprietary)

cc: G. W. Knighton  
J. B. Martin  
J. R. Ball

8801120279 871231  
PDR ADDCK 05000528  
PDR

PA01  
11



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.

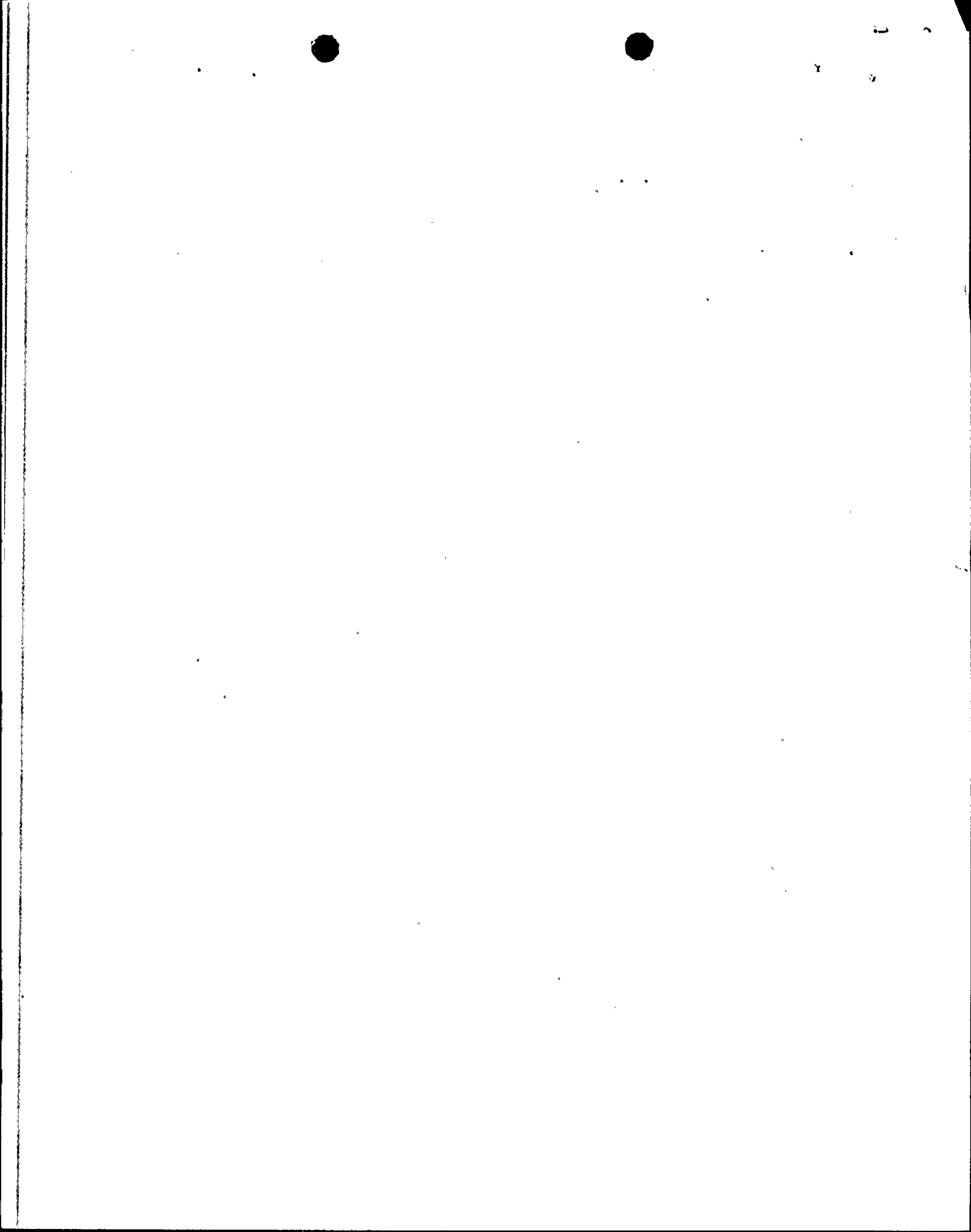
The information for which proprietary treatment is sought is contained in the following document:

"Shaft Design Calculation", No. 77-RCP-RO1-008, C-E KSB, Pump Company, Combustion Engineering, Inc., October 1978.

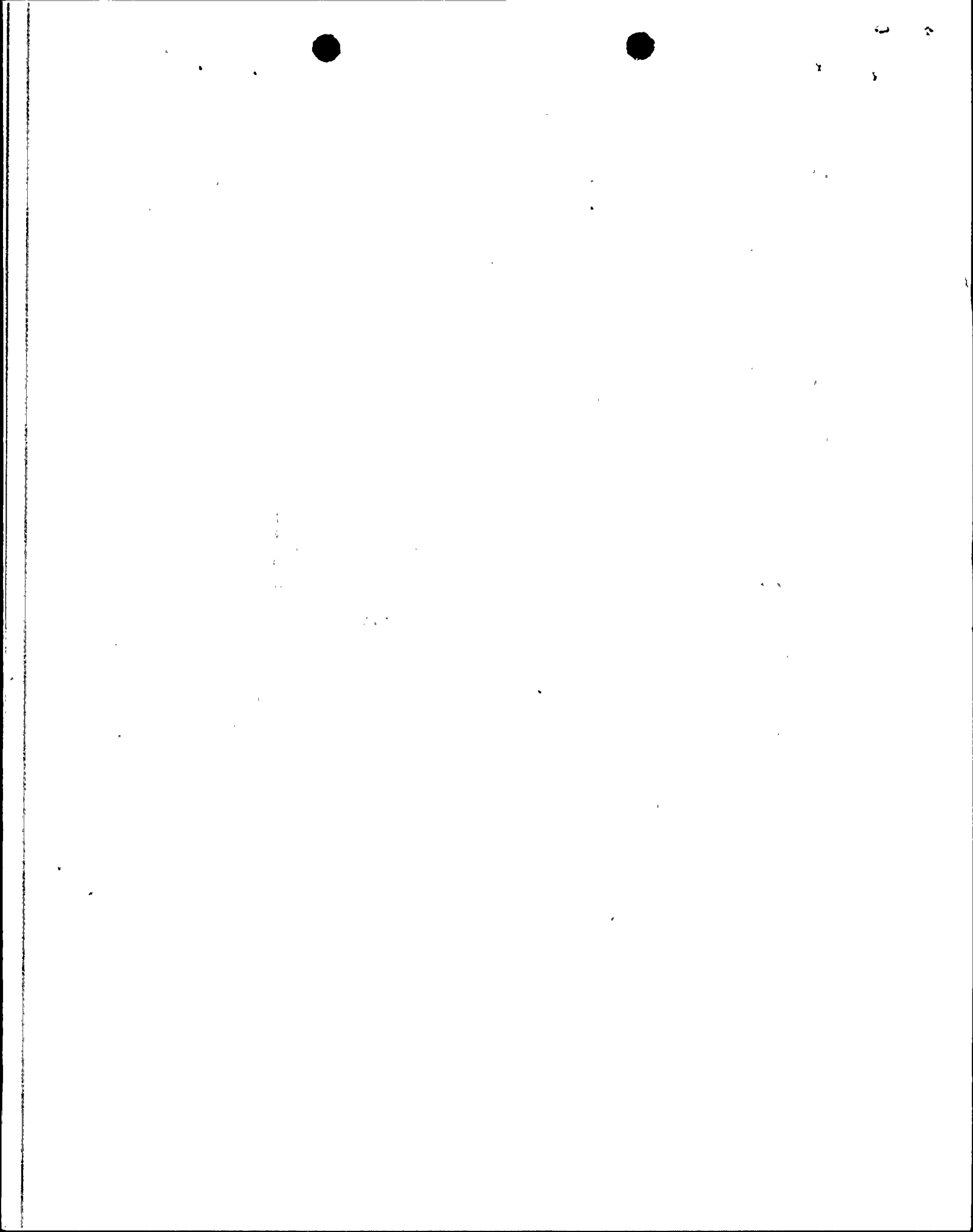
This document has been appropriately designated as proprietary.

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 are analysis methods for and results of reactor coolant pump shaft stress calculations, 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 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 document 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 reactor competitors of Combustion Engineering.

b. Development of this information by C-E required hundreds of manhours and tens 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 to develop the reported analysis methods and results.

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 analysis methods for and results of reactor coolant pump shaft stress calculations, 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.

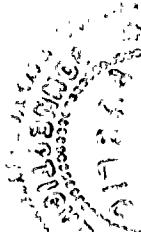
g. Use of the information by competitors in the international marketplace would increase their ability to market nuclear steam supply systems by reducing the costs associated with their technology development. In addition, disclosure would have an adverse economic impact on Combustion Engineering's potential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

Further the deponent sayeth not.



A. E. Scherer  
Director  
Nuclear Licensing

Sworn to before me  
this 18<sup>th</sup> day of December, 1987.



Susanne Smith  
Notary Public

SUSANNE SMITH, NOTARY PUBLIC  
State of Connecticut No. 74148  
Commission Expires March 31, 1990

UNIVERSITY OF CALIFORNIA  
LIBRARY  
DIVERSITY AND INCLUSION  
8 2015 10:02  
C103 25 40

**Arizona Nuclear Power Project**

P.O. BOX 5900 • PHOENIX, ARIZONA 85072-2034

December 31, 1987  
161-00726-EEVB/JRP

Docket Nos. STN 50-528/529/530

U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: E. A. Licitra

Dear Mr. Licitra:

Subject: Palo Verde Nuclear Generating Station (PVNGS)  
Units 1, 2 and 3  
Shaft Design Calculation  
File: 87-A-056-026

Enclosed please find one copy (Copy No. 000002) of Engineering Calculation No. 87-RCP-R01-008, "Shaft Design Calculation" as per your request.

Please note that this information is considered proprietary to CE and is being submitted with an affidavit in conformance with the provisions of 10CFR2.790(b)(4) of the Commission's regulations for withholding such information.

Should you have any questions, please call.

Very truly yours,



E. E. Van Brunt, Jr.  
Executive Vice President  
Project Director

EEVB/JRP/cal

Enclosure (Proprietary)

cc: G. W. Knighton  
J. B. Martin  
J. R. Ball

PA01  
11

