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 FACIL: STN-50-528 Palo Verde Nuclear Station, Unit 1, Arizona Public Service 05000528
 AUTH. NAME: CONWAY, W.F. AUTHOR AFFILIATION: Arizona Public Service Co. (formerly Arizona Nuclear Power)
 RECIP. NAME: RECIPIENT AFFILIATION: Document Control Branch (Document Control Desk)

SUBJECT: Forwards nonproprietary CEN-419(V)-NP & proprietary CEN-419(V)-P, "PVNGS, Unit 1 EOC 3 Fuel Exam Rept," containing results of fuel rod shoulder gap measurements. Proprietary Rept CEN-419(V)-P withheld, per 10CFR2.790(b).
see RPT. w/holding per 10CFR 3/23/93

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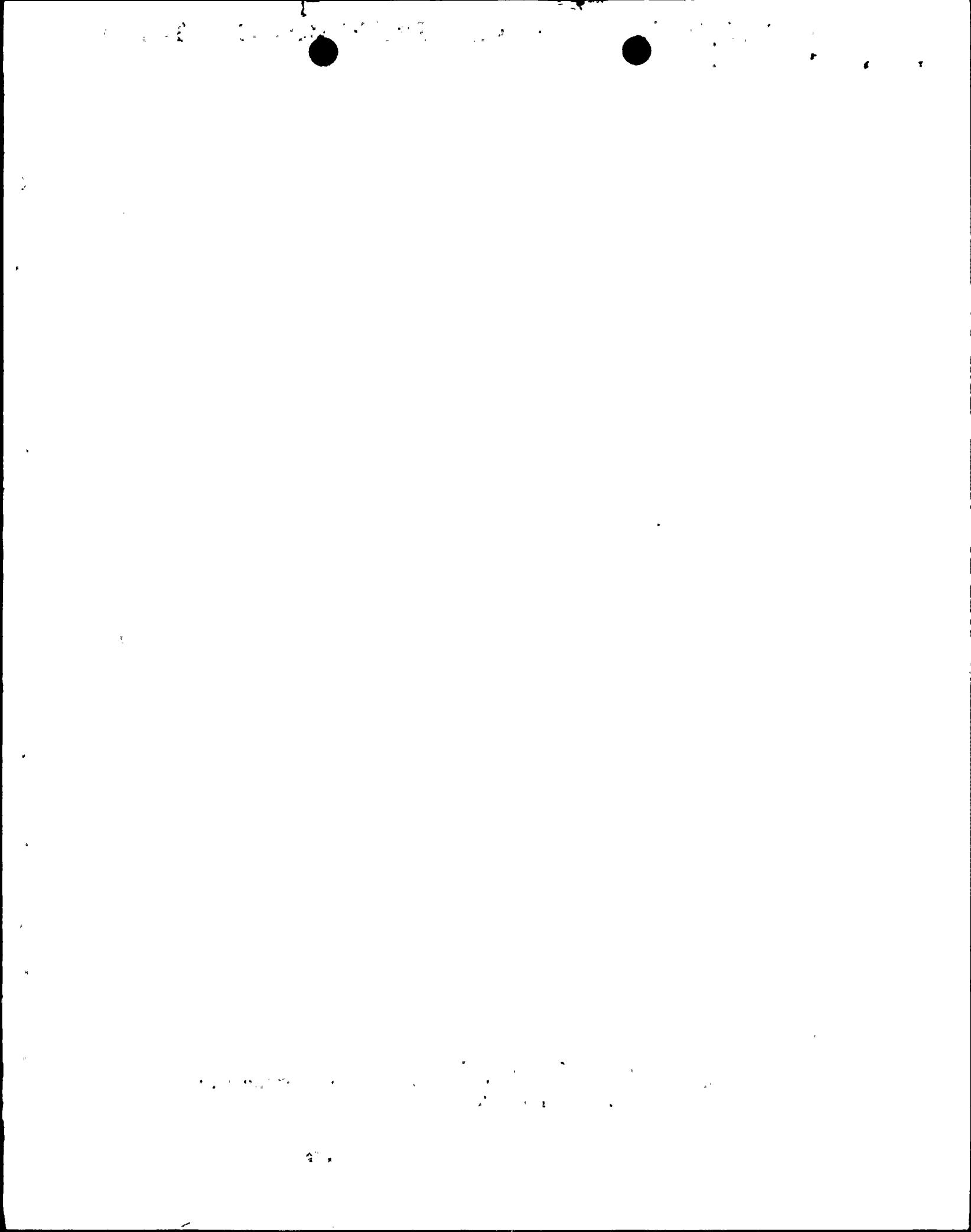
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WILLIAM F. CONWAY
EXECUTIVE VICE PRESIDENT
NUCLEAR

102-02403-WFC/TRB/GAM
January 25, 1993

U. S. Nuclear Regulatory Commission
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- References:
- 1) Letter dated February 16, 1989, from T. L. Chan, NRC, to D. B. Karner, APS, "Fuel Surveillance Commitments (TAC No. 56662)"
 - 2) Letter 161-01404, dated October 19, 1988, from D. B. Karner, APS, to NRC, "PVNGS Fuel Surveillance Commitments"
 - 3) Letter 161-00730, dated January 8, 1988, from E. E. Van Brunt, Jr., APS, to NRC, "Fuel Surveillance Test Results"
 - 4) Letter 161-01102, dated June 9, 1988, from E. E. Van Brunt, Jr., APS, to NRC, "CEA Guide Tube Wear Inspection Results"
 - 5) Letter 161-02602, dated November 8, 1989, from W. F. Conway, APS, to NRC, "Fuel Surveillance Test Results - Unit 1, End-of-Cycle 2"

Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Docket Nos. STN 50-528
End-of-Cycle 3 Fuel Examination Report
File: 93-056-026; 93-001-419.16**

Enclosed is one copy of the PVNGS Unit 1 End-of-Cycle 3 Fuel Examination Report, CEN-419(V)-P, containing the results of fuel rod shoulder gap measurements made by ABB-Combustion Engineering, Inc., (ABB-CE) during the most recent Unit 1 refueling outage. This report is considered by ABB-CE to be proprietary, and is being submitted with an affidavit pursuant to the provisions of 10 CFR 2.790(b) for withholding such information from public disclosure. One copy of a non-proprietary version of this report, designated as CEN-419(V)-NP, is also enclosed.

The commitment to provide shoulder gap measurement results was identified in Safety Evaluation Report, Supplement 8, and revised in the Reference 1 NRC letter in response to the Reference 2 Arizona Public Service Company (APS) letter.

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APOL 1/1 Prop NP Change NRC PAR for Encl 1 NP



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End-of-Cycle 3 Fuel Examination Report
Page 2

APS requests the closure of the shoulder gap issue and approval to discontinue the commitment to perform any additional shoulder gap measurements. The data provided in the enclosed report and each of the previous Unit 1 fuel inspection reports (References 3, 4, and 5) verify that fuel rod growth is conservatively overpredicted by ABB-CE design models for fuel cycle performance analyses. This demonstrated performance confirms that the PVNGS fuel design will assure adequate shoulder gap clearance for the design lifetime of the PVNGS fuel.

If you have any questions or require additional information, please call Thomas R. Bradish at (602) 393-5421.

Sincerely,

A handwritten signature in cursive script, appearing to read "W. Conway".

WFC/TRB/GAM/gam

Enclosures

cc: J. B. Martin (all w/o enclosures)
J. A. Sloan



AFFIDAVIT PURSUANT

TO 10 CFR 2.790

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

SS.:

I, S. A. Toelle, depose and say that I am the Manager, 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 in conjunction with Arizona Public Service Company for withholding this information.

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

CEN-419(V)-P, "Palo Verde Nuclear Generating Station - Unit 1 End-of-Cycle 3 Fuel Examination Report," July 31, 1992.

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



[The text in this section is extremely faint and illegible. It appears to be a list or a series of entries, possibly a table with multiple columns. The text is scattered across the page and is difficult to discern.]

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, which is owned and has been held in confidence by Combustion Engineering, is the result of fuel examinations to characterize rod and assembly growth conducted during the end-of-cycle 3 refueling outage at Palo Verde Unit 1.
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 is 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 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 to perform fuel examinations to characterize rod and assembly growth in Palo Verde Unit 1.
 - 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

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is essential for ensuring the integrity of the financial system and for providing a clear audit trail.

2. The second part of the document outlines the various methods used to collect and analyze data. It describes how different types of information are gathered and how they are processed to identify trends and anomalies.

3. The third part of the document focuses on the role of technology in modern data management. It highlights the use of advanced software and hardware solutions to streamline operations and improve efficiency.

4. The fourth part of the document addresses the challenges of data security and privacy. It discusses the risks of data breaches and the measures that can be taken to protect sensitive information.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the need for continuous improvement and the adoption of best practices to stay ahead in a rapidly changing environment.

marketing the product to which the information is applicable.

- e. The information consists of the result of fuel examinations to characterize rod and assembly growth conducted during the end-of-cycle 3 refueling outage at Palo Verde Unit 1, 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.

S. A. Toelle

S. A. Toelle
Manager
Nuclear Licensing

Sworn to before me
this 29th day of July, 1992

Laurie J. White
Notary Public

My commission expires: 3/31/94

1954
MARCH 2
10:00 AM
M. J. ...