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 CONWAY, W.F.      Arizona Public Service Co. (formerly Arizona Nuclear Power  
 RECIP. NAME      RECIPIENT AFFILIATION  
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SUBJECT: Forwards Recorded Calculation SA-ALL-NCR-92-003-00,  
          "Subgroup 4,5 & 22 CEA Slip Analysis for Reactor Power  
          Cutback Timer." Calculation withheld (ref 10CFR2.790). *see RPT*

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WILLIAM F. CONWAY  
EXECUTIVE VICE PRESIDENT  
NUCLEAR

161-04696-WFC/NLT  
March 24, 1992

U. S. Nuclear Regulatory Commission  
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Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)**  
**Units 1, 2, and 3**  
**Docket Nos. STN 50-528/529/530**  
**Transmittal of Subgroup 4, 5, and 22 CEA Slip Analysis for**  
**Reactor Power Cutback Timer**  
**File: 92-056-026; 92-001-703**

Pursuant to the request of Mr. D. H. Coe, NRC Region V Senior Resident Inspector, Arizona Public Service Company (APS) hereby provides the "Subgroup 4, 5, and 22 CEA Slip Analysis for Reactor Power Cutback Timer" as Enclosure 1 to this letter.

This analysis provides the justification for reintroducing the Core Protection Calculator/Control Element Assembly (CEA) Calculator cutback timer for the PVNGS units based on previously calculated reload analysis. The calculation looks at possible two consecutive four-finger slips in the "legal" banks (currently banks four and five) and determines rod worths and distortion factors. Based on the limiting distortion factor, a safety analysis evaluation concludes that the four-finger CEA drop event bounds the two consecutive slips and hence is less limiting.

The APS recorded calculation is considered by Combustion Engineering, Inc. (CE) to be proprietary information. Please find as Enclosure 2, the CE affidavit pursuant to 10 CFR 2.790.

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PDR ADCK 05000528  
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APD 11/



March 24, 1992

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Transmittal of CEA Slip Analysis for  
Reactor Power Cutback Timer  
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If you have any questions, please contact Michael E. Powell at (602) 340-4981.

Sincerely,



WFC/MEP/NLT

Enclosures:

1. APS Recorded Calculation SA-ALL-NCR-92-003-00, Analysis for Reactor Power Cutback Timer
2. CE's Affidavit for the APS Recorded Calculation SA-ALL-NCR-92-003-00, Analysis for Reactor Power Cutback Timer

cc: J. B. Martin  
D. H. Coe  
A. C. Gehr  
A. H. Gutterman

