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 VAN BRUNT, E. E. Arizona Public Service Co.  
 RECIP. NAME: RECIPIENT AFFILIATION  
 KNIGHTON, G. Licensing Branch 3

SUBJECT: Forwards draft rev to FSAR Section 3A.10 re structural welding code AWS D1.1-72.

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Arizona Public Service Company

P.O. BOX 21666 • PHOENIX, ARIZONA 85036

December 14, 1983  
ANPP 28438-WFQ/MSN

Director of Nuclear Reactor Regulation  
Attention: Mr. George Knighton, Chief  
Licensing Branch No. 3  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Palo Verde Nuclear Generating Station (PVNGS)  
Units 1, 2 and 3  
Docket Nos: STN-50-528/529/530  
File: 83-056-026; G.1.01.10

Reference: APS letter from E. E. Van Brunt, Jr. to  
G. W. Knighton (NRC), dated 11/16/83

Dear Mr. Knighton:

A telephone conference call was held on November 9, 1983 between APS personnel and E. A. Licitra and Dave Smith of your staff to discuss an exception taken in FSAR Section 3.8.1.6.6.1 to Structural Welding Code AWS D1.1-72. Justification had been provided in FSAR Section 3A.10 for the exception taken to AWS D1.1-72, Table 4.2. It was agreed that additional information would be provided in FSAR Section 3A.10 to allay your concerns.

The referenced letter stated that a draft revision of FSAR Section 3A.10 (Paragraph I.D) would be transmitted for your review by December 16, 1983. This information is attached for your review.

If you have any questions regarding this matter, please contact me.

Very truly yours,

*E. E. Van Brunt*

E. E. Van Brunt, Jr.  
APS Vice President  
Nuclear Projects Management  
ANPP Project Director

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PDR ADDCK 05000528  
A PDR

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Attachment

cc: E. A. Licitra (w/a)  
A. C. Gehr (w/a)

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud.

2. The second part of the document outlines the specific procedures for recording transactions. It details the steps involved in the accounting cycle, from identifying the transaction to posting it to the appropriate ledger account.

3. The third part of the document discusses the importance of reconciling accounts. It explains how regular reconciliations help to ensure that the records are accurate and that any discrepancies are identified and corrected promptly.

4. The fourth part of the document discusses the importance of maintaining proper documentation. It emphasizes that all transactions should be supported by appropriate evidence, such as invoices, receipts, and contracts.

5. The fifth part of the document discusses the importance of maintaining proper internal controls. It explains how internal controls help to prevent fraud and ensure the accuracy of the financial records.

6. The sixth part of the document discusses the importance of maintaining proper communication. It emphasizes that all parties involved in the financial process should be kept informed of the status of the records and any issues that arise.

7. The seventh part of the document discusses the importance of maintaining proper security. It explains how security measures help to protect the financial records from theft, loss, and damage.

8. The eighth part of the document discusses the importance of maintaining proper confidentiality. It emphasizes that financial records are often sensitive and should be kept confidential to protect the interests of the organization.

9. The ninth part of the document discusses the importance of maintaining proper accuracy. It explains how accuracy is essential for the reliability of the financial records and for the ability to make informed decisions.

10. The tenth part of the document discusses the importance of maintaining proper consistency. It emphasizes that consistency is essential for the comparability of the financial records and for the ability to track performance over time.

STATE OF ARIZONA    )  
                          ) ss.  
COUNTY OF MARICOPA)

I, Edwin E. Van Brunt, Jr., represent that I am Vice President, Nuclear Projects of Arizona Public Service Company, that the foregoing document has been signed by me on behalf of Arizona Public Service Company with full authority to do so, that I have read such document and know its contents, and that to the best of my knowledge and belief, the statements made therein are true.

Edwin E. Van Brunt  
Edwin E. Van Brunt, Jr.

Sworn to before me this 14<sup>th</sup> day of December, 1983.

Nora E. Meador  
Notary Public

My Commission Expires:

My Commission Expires April 6, 1987



ATTACHMENT

Draft Revision of FSAR  
Section 3A.10 (Paragraph I.D)

Draft revision to justification provided in FSAR Section 3A.10, Paragraph I.D.

Justification: The preheat for fillet welds is based on the weld throat dimension, and the justification is based on the following engineering analysis:

- 1) The structural steels used at PVNGS which utilize the fillet weld throat approach to preheating are plain carbon steels (principally A36 and A500) and are essentially nonhardenable. Preheat is important for plain carbon, nonhardenable steels to counteract high restraint and shrinkage strains. The fillet welds at PVNGS are not considered to be highly restrained. Since the shrinkage strain is proportional to the weld throat, it is a rational basis for preheating. This fillet weld throat approach to preheating is not used for high strength or alloy steels. High strength and alloy steels used at PVNGS are governed by other codes and specifications.
  - 2) The principal welding filler metal used for the structural steel is E7018, which produces a tough ductile deposit and has minimal preheat requirements due to its low hydrogen characteristic. The NRC has reviewed and approved a test report from PVNGS, qualification of an alternative electrode control program for AWS D1.1 (including the electrode control procedure WFMC-1/Revision 6), dated March 15, 1978, which reported on the control of E7018 electrodes. The test coupons used in that program were welded without preheat. Several coupons were one inch thick circular patch tests which represent the maximum restraint. As the circular patch test coupons welded without preheat were acceptable, fillet welding without preheat is justifiable. In addition to these tests, numerous other procedure qualification test coupons have been welded without preheat. Any of these tests can serve to qualify deviations from the requirements of AWS D1.1, Table 4.2.
  - 3) The inspection requirements of AWS D1.1 are supplemented with non-destructive examinations as appropriate to the design and function of the components.
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