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Arizona Public Service Company
P.O. BOX 21666 • PHOENIX, ARIZONA 85036

February 9, 1984
ANPP-28832-BSK/TRB

U. S. Nuclear Regulatory Commission
Region V
Creekside Oaks Office Park
1450 Maria Lane - Suite 210
Walnut Creek, CA 94596-5368

Attention: Mr. T. W. Bishop, Director
Division of Resident
Reactor Projects and Engineering Programs

Subject: Final Report - DER 83-68
A 50.55(e) Reportable Condition Relating to PK Batter Racks Were Constructed With Some Nuts And Bolts Which Do Not Meet the Specification Requirements.
File: 84-019-026; D.4.33.2

Reference: A) Telephone Conversation between P. Johnson and R. Tucker on September 28, 1983.
B) ANPP-28133, dated, October 28, 1983 (Interim Report)
C) ANPP-28471, dated, December 19, 1983 (Time Extension)
D) ANPP-28594, dated, January 11, 1984 (Time Extension)

Dear Sir:

Attached is our final written report of the Reportable Deficiency under 10CFR50.55(e), referenced above.

Very truly yours,

E. E. Van Brunt

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

EEVB/TRB:db
Attachment

cc: See Page Two

cc: Richard DeYoung, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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FINAL REPORT - DER 83-68
DEFICIENCY EVALUATION 50.55e)
ARIZONA PUBLIC SERVICE COMPANY (APS)
PVNGS UNITS 1, 2, & 3

I. DESCRIPTION OF DEFICIENCY

Exide Manual, Log. No. E050-45-1, section 58.10, paragraph 4 (a) states in part "All bolts and nuts used to assemble and anchor the battery racks are to be Class 2 fit and SAE Grade 5 or ASTM-449 or better." However, during surveillance inspection of PK and NK Battery Racks in Units 1 and 2 it was determined that the racks were put together with a mixture of specified and non-specified bolts. Field investigation has determined that Exide supplied the correct hardware as per specification requirements; however, this material was subsequently intermixed at the jobsite. The battery racks are identified by the following unit tag numbers:

1E-PKA-F11R	2E-PKA-F11R	3E-PKA-F11R
1E-PKB-F12R	2E-PKB-F12R	3E-PKB-F12R
1E-PKC-F13R	2E-PKC-F13R	3E-PKC-F13R
1E-PKD-F14R	2E-PKD-F14R	3E-PKD-F14R
*1E-QDN-F01R	*2E-QDN-F01R	*3E-QDN-F01R
*1E-QDN-F02R	*2E-QDN-F02R	*3E-QDN-F01R

*Battery racks are Quality Class S, Non Class 1E, and hardware must conform to Quality Class Q to support seismic qualifications. The battery racks are located in a safety-related area.

II. ANALYSIS OF SAFETY IMPLICATIONS

Bechtel engineering has reviewed the circuit classes of the subject battery racks with the following conclusions:

A. PK battery racks contain Class 1E batteries, are designated Quality Class Q and are essential to the safe operation of the plant.

B. NK battery racks contain Non-Class 1E batteries, are designated Quality Class R and are not essential to the safe operation of the plant.

C. QDN battery racks contain Non-Class 1E batteries, are designated Quality Class S. Because these racks are close to safety-related equipment the racks require seismic withstand capability during a design basis event (DBE).

Failure of the structural integrity of battery racks PK and QDN is unacceptable.

Based on the above, the condition is evaluated as reportable under the requirement of 10CFR50.55(e), since if this condition were to remain uncorrected, it would represent a safety significant condition. The evaluation of the condition indicates that it does not meet the requirements for reportability under 10CFR Part 21.

III. CORRECTIVE ACTION

A. Non-conforming hardware will be replaced on Units 1 and 2 PK and QDN battery racks, with Class 2 fit, ASTM-449 and/or SAE Grade 5 materials. This work will be done prior to fuel load of the respective units.

B. An inspection of Unit 3 PK and QDN battery racks will be performed. NCR's will be issued if non-conforming conditions are found. The corrective action will be the same as Units 1 and 2 and work shall be completed prior to fuel load for Unit 3.

C. NCR SE-2783 will be dispositioned as "Rework" for PK and QDN battery racks, and "Use-As-Is" for NK battery racks.

D. A copy of this report will be transmitted to the Field Construction Manager for his information and to preclude future recurrence.