

Arizona Public Service Company

P.O. BOX 21666 • PHOENIX, ARIZONA 85036

50-528

September 27, 1983
ANPP-27896-BSK/RQT

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

Attention: Mr. D. M. Sternberg, Chief
Reactor Projects Branch 1

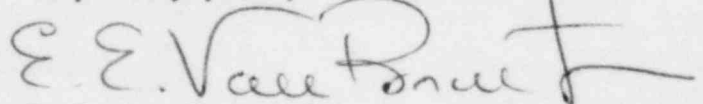
Subject: Final Report - DER 83-14
A 50.55(e) Reportable Condition Relating To Diesel Generator
Protective Relays By Westinghouse Failed Due To Leaking
Capacitors
File: 83-019-026; D.4.33.2

Reference: (A) Telephone Conversation between A. D'Angelo and R. Tucker
on March 16, 1983
(B) ANPP-23504, dated April 14, 1983 (Interim Report)
(C) ANPP-24003, dated June 8, 1983 (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, Jr.
APS Vice President,
Nuclear Projects Management
ANPP Project Director

EEVBJr/RQT:sn

Attachment

cc: See Attached Page 2

Mr. D. M. Sternberg
DER 83-14
Page 2

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 83-14

DEFICIENCY EVALUATION 50.55(e)

ARIZONA PUBLIC SERVICE COMPANY (APS)

PVNGS UNIT 1 and 2

I. DESCRIPTION OF DEFICIENCY

During electrical generic testing of the Class IE standby generation portion of the Unit 1 B Train Diesel Generator, a Differential Relay (Westinghouse Type SA-1, Part NO. 290B225A10) was found to have leaking internal capacitors. Replacement of this Differential Relay with a Unit 2 Differential Relay was performed per Nonconformance Report SE-1662. This replacement Differential Relay was found to contain the same deficiency. Inspection of the remaining two Westinghouse Type SA-1 Differential Relays in Units 1 and 2 Diesel Generator Class IE standby generation systems showed this deficiency to exist in all four of the subject relays (documented in Nonconformance Report SE-1676).

II. ANALYSIS OF SAFETY IMPLICATIONS

This condition is evaluated as reportable. The differential relay will shut down the emergency diesel generator during operation if generator differential occurs. The leaking capacitors may affect the capability of the relay to function. The relay may trip the generator when no differential occurs, or may fail to trip the generator, which could result in extensive damage.

III. CORRECTIVE ACTION

The defective relays are to be returned to the supplier, who in turn will have Westinghouse replace the capacitors. The referenced NCR's will be dispositioned to return the relays to the supplier. The vendor will inspect the Unit 3 relays and replace the capacitors if necessary. Westinghouse SA-1 relays are presently undergoing environmental qualification testing.

In addition to reportability under 10CFR50.55(e), Bechtel PVNGS Project considers the deficiency to be reportable under the requirements of 10CFR Part 21 by the supplier. Deficiency Evaluation Report 83-14 addresses the reporting requirements specified under 10CFR 21.21 (b) (3) with the exception of sub-part (vi) which requires the number and location (customer and/or facilities) of other possible defective equipment. A copy of this report will be sent to Cooper Energy Services requesting their review for reporting under 10CFR Part 21 including number and location of all components supplied.