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## Arizona Nuclear Power Project

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November 30, 1984  
ANPP-31275-TDS/TRB

REGION V IAG

U. S. Nuclear Regulatory Commission  
Region V  
1450 Maria Lane - Suite 210  
Walnut Creek, California 94596-5368

Attention: Mr. D. F. Kirsch, Acting Director  
Division of Reactor Safety and Projects

Subject: Final Report - DER 84-88  
A 50.55(e) Reportable Condition Relating To Grout Missing  
Under Downcomer Feedwater Lines.  
File: 84-019-026; D.4.33.2

Reference: A) Telephone Conversation between P. Narbut and T. Bradish on  
October 31, 1984

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* ASK

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

EEVB/TRB/nj  
Attachment

cc: See Page Two

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Mr. D. F. Kirsch  
DER 84-88  
Page Two

cc: Richard DeYoung, Director  
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U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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FINAL REPORT - DER 84-88  
DEFICIENCY EVALUATION 50.55(e)  
ARIZONA PUBLIC SERVICE COMPANY (APS)  
PVNGS UNIT 1

I. Description of Deficiency

The referenced design drawings for the downcomer feedwater five-way restraints in the main steam support structure require grout to be placed beneath 1/2 inch base plates. The required grout forms had been installed but the grout was not placed for the two west downcomer feedwater line five-way restraints (SG-200 and SG-203). This condition is documented on NCR CC-4915.

Evaluation

An inspection of all five-way restraints in Unit 1 and all completed five-way restraints in Unit 2 was performed to insure that grouting has been completed per design drawings. Results from the reinspection indicate that all other completed five-way restraints have been properly grouted in accordance with the drawings. This demonstrates that grout omission for the west downcomer feedwater line restraints is an isolated case.

Review of work plan procedures indicates that separate CIPs are required for installation of structural steel and grouting beneath the base plates of all five-way restraints. The root cause is attributed to an oversight on the part of construction and failure to pay attention to the detail requirements contained in Work Plan Procedures.

II. Analysis of Safety Implications

The function of the five-way restraints is to prevent pipe motion, due to pipe rupture, from adversely affecting the function of the isolation valve located in the main steam support structure. The absence of grout beneath the base plates might prevent the restraints from performing their intended function. Therefore, this condition is evaluated as reportable under the requirements of 10CFR50.55(e); since, if it were to remain uncorrected, it would constitute a significant safety hazard.

In addition, the PVNGS project has determined that the defect is due, not to a defective basic component, but to a construction oversight and is, therefore, not reportable under the requirements of 10CFR Part 21.

III. Corrective Action

The final disposition for NCR CC-4915 requires grout to be placed for the two west downcomer feedwater line five-way restraints (SG-200 and SG-203) in accordance with specification 13-CM-365 and design drawing 13-C-ZCS-720. The work required by this disposition has been completed and NCR CC-4915 was closed on 10/29/84.

The condition reported herein has been determined to be an isolated case and not due to any systematic procedural deficiency. The existing jobsite procedures and the added emphasis being placed on overall quality, including strict adherence to project procedures, by project management through weekly quality meetings is considered adequate to prevent recurrence on the remaining five-way restraint installations.