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 AUTH. NAME AUTHOR AFFILIATION
 LEVINE, J.M. Arizona Public Service Co. (formerly Arizona Nuclear Power
 RECIP. NAME RECIPIENT AFFILIATION
 MARTIN, J.B. Region 5 (Post 820201)

SUBJECT: Provides follow-up info re tubes plugged during repairs to
 Train A essential cooling water sys HX, per 920315 request
 for temporary waiver of compliance.

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1992 APR 16 AM 10: 58

JAMES M. LEVINE
VICE PRESIDENT
NUCLEAR PRODUCTION

102-02134-JML/TRB/DAJ
April 10, 1992

Mr. J. B. Martin, Regional Administrator
U. S. Nuclear Regulatory Commission
Region V
1450 Maria Lane, Suite 210
Walnut Creek, CA 94596-5368

Dear Mr. Martin:

Reference: Request for Temporary Waiver of Compliance (TWOC), Revision 2 submitted March 15, 1992, to Mr. John B. Martin, Regional Administrator, Region V, NRC, from Mr. W. F. Conway, Executive Vice President, Nuclear, Arizona Public Service (Letter No. 161-04665-WFC/NLT)

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Docket No. STN 50-529 (License No. NPF-51)
Essential Cooling Water Heat Exchanger Plugged Tubes
File: 92-019-026

This letter is being submitted to provide follow-up information regarding the number of tubes plugged during repairs to the Train A Essential Cooling Water System (ECWS) heat exchanger for which the referenced TWOC was submitted. In the referenced TWOC, it was indicated that as of 9:00 a.m. MST on March 15, 1992, work remaining to be completed included plugging seventy-one tubes which had indication of potential defects when eddy current inspected. This status was based upon best available information at that time. Subsequent final review of the work performed and compilation of the data shows that eighty-eight tubes were plugged. This is less than the maximum number of tubes (128) which can be plugged per the manufacturer's recommendations. Of the eighty-eight tubes plugged, fourteen were plugged due to visual confirmation of leakage, six were plugged due to potential damage incurred when one tube was removed for root cause analysis, and sixty-eight tubes were plugged due to indications of potential defects.

Eddy current inspection was performed on 101 tubes along their full length and on all tubes up to their first support plate. The confirmed leaks and tube defects were found in the tube area up to the first support plate. During eddy current inspection, sixty-eight tubes were found to have potential defects and were plugged at management's direction prior to engineering final analysis of the eddy current results. This decision was made to minimize the out-of-service time for the heat exchanger while remaining within the design of the heat exchanger as stated in the manufacturer's technical manual.

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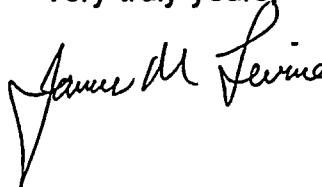
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Subsequent engineering analysis of the eddy current results determined that thirty-eight of the sixty-eight tubes would have required plugging due to defects.

If you have any questions, please contact Mr. D. Alan Johnson at (602) 393-5203.

Very truly yours,

A handwritten signature in cursive script, appearing to read "James M. Levine". The signature is written in dark ink and is positioned below the typed name "James M. Levine".

JML/TRB/DAJ/dmn

cc: C. M. Trammell
D. H. Coe
A. H. Gutterman
W. A. Wright

