J. Strosmider

BROOKHAVEN NATIONAL LABORATORY

MEMORANDUM

DATE: May 16, 1979

TO:

Frank M. Almeter

FROM:

John R. Weeks

SUBJECT:

Review of PASNY Somittal

of April 20, 1979

In general, I think the response of PASNY is satisfactory. Their analysis of the cause of denting at Indian Point 3 is consistent with my understanding of the causes, and they have proposed increased surveillance for and improved response to condenser tube leaks, and the Westinghouse boric acid program, which are acceptable, in my opinion.

I think, however, it is unfortunate that the PWR operators with minor denting problems are not avidly pursuing chemical cleaning at this stage; whereas, PASNY says chemical cleaning is under long-term evaluation, I think it should be given a high priority.

Dan van Rooyen and I both feel strongly that chemical cleaning would be most beneficial to those units in which denting is only slight. By the time denting becomes moderate and support plate damage has occurred, it is already too late for chemical cleaning, as was learned at Indian Point 2.

JRW/rb

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cc W. Y. Kato

V. S. Nocpan

W. S. Hazelton

B. D. Liaw

D. van Rooyen

BROOKHAVEN NATIONAL LABORATORY 06/02/78 Files J.R. Weeks Trojan Steam Generator Inspection Spring, 1978

MEMORANDUM

TO:

FROM:

SUBJECT:

On May 3, 1978, I met with Carl Shaw in the Portiand General Electric offices in Portland, Oregon to discuss the results of the recent steam generator inspection. This inspection was the second since the base line and the results were still in the raw data stage at that time.

The first inspection, in 1977, looked at the A and C steam generators, which were considered the best and the worst from a chemistry point of view at that time. Nothing reportable was found. There were some permeability variations. Visual inspection of the tubes showed them to look clean. No sludge was found on the tube sheet on steam generator A, and less than 1" in steam generator C.

During the second year of operation a small (1 gallon per day) steam generator leak developed in steam generator B. This leaking tube was very difficult to identify during shutdown since no leakage occurred at all without pressurization. The leak was found to be on one of the tight radius U-bend tubes on the cold leg side. PG&E surmized it is in the tube sheet area although the eddy current inspection could not identify the source. The tubes at Trojan were expanded part way into the tube sheet in the factory and then further expanded to the full depth of the tube sheet at the Trojan site before startup.

Eddy current inspection of steam generator B identified two small dents each less than 1/2 mil in the #1 support plate region (row 1, column 32 and row 24, column 14). These dents were not there during the baseline inspection. Sludge lancing was performed in all four steam generators at Trojan. Photographs of the tubes taken through the hand holes showed a significant increase on the amount of scale on the secondary side.

Distribution:

F.M. Almeter

W.S. Hazelton

K. Herring_

C.M. Trammell

H.F. Conrad

van Rooyen

W.Y. Kato

JRW/bMc