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 CRUTCHFIELD, D. Operating Reactors Branch 5

SUBJECT: Responds to NRC questions on eddy current insp program re steam generator evaluation.

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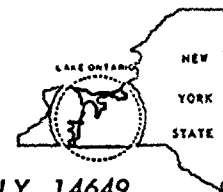
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ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649

JOHN E. MAIER
Vice President

TELEPHONE
AREA CODE 716 546-2700

May 18, 1982

Director of Nuclear Reactor Regulation
Attention: Mr. Dennis M. Crutchfield, Chief
Operating Reactors Branch No. 5
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Eddy Current Inspection Program
Steam Generator Evaluation
R. E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Crutchfield:

This letter is in response to questions from members of the NRC Staff.

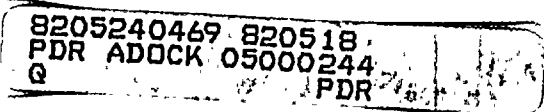
Question 1 - Provide a full breakdown of eddy current examination sampling.

Answer 1 - "A" Steam Generator Examination Program
The eddy current inspection included:

- a) 99.96% of inlet tubes to the first support plate,
- b) 111 inlet tubes over the U bends,
- c) 415 outlet tubes to the first support plate,
- d) 111 outlet tubes to the sixth support plate.
(These are the same tubes identified in item b above.)

- "B" Steam Generator Examination Program
The eddy current inspection included:

- a) 99.96% of inlet tubes to the first support plate,
- b) 251 inlet tubes over the U-bends,
- c) 415 outlet tubes to the first support plate,
- d) 111 outlet tubes to the sixth support plate.
(These tubes were included in the number of tubes inspected in item b above.)



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ROCHESTER GAS AND ELECTRIC CORP.

SHEET NO. 2

DATE May 18, 1982

TO Mr. Dennis M. Crutchfield

Question 2 - Confirm that all tubes within two rows of the periphery on the cold leg side of both steam generators were examined.

Answer 2 - Two rows of tubes were examined around the periphery of both steam generator's outlet (cold leg).

Question 3 - Were periphery tubes examined for their full length or partial length?

Answer 3 - All periphery tubes were examined to the first support plate. Additionally, all periphery tubes in the "B" Steam Generator inlet were re-examined after repairs to the sixth support plate, with 140 of these tubes being examined over the U-bends.

Question 4 - What was the axial length of the indications found in tube R32 C15 at the time of plugging? Was the examination absolute or differential?

Answer 4 - In April 1976, utilizing a differential eddy current technique, R32 C15 had a dent signal at the first support plate, a localized ID signal 3.5 inches above the top of the tube sheet and a distorted tube sheet entry signal (much less than 20% O.D. signal). In April 1980, utilizing differential and absolute techniques, R32 C16 had a localized 36% outside diameter signal approximately one inch above the top of the tube sheet

Very truly yours,


John E. Maier

Location of all samples taken for the purpose of this study is given in the following table.

One of the main purposes of this study was to determine the effect of the following factors on the quality of the milk.

The first factor was the season of the year. It was found that the quality of the milk was generally better in the summer months than in the winter months.

The second factor was the type of feed given to the cows. It was found that the quality of the milk was generally better when the cows were given a high quality feed than when they were given a low quality feed.

In Part I of this study it was found that the quality of the milk was generally better when the cows were given a high quality feed than when they were given a low quality feed. This was true for all of the samples taken during the study.

TABLE I
Location of all samples taken for the purpose of this study