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ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N. Y. 14604

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TELEPHONE AREA CODE 716 546 2700

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March 24, 1972

Dr. Peter A. Morris, Director
Division of Reactor Licensing
U. S. Atomic Energy Commission
7920 Norfolk Avenue
Bethesda, Maryland 20014

Subject: Information on Main Steam Header
Docket No. 50-244
License No. DPR-18



Dear Dr. Morris:

The following report on an improvement made to the Ginna facility secondary system safety and power operated relief valves is hereby submitted. This information has previously been given orally to your Staff and the Division of Compliance.

At Ginna, each of the two steamlines are protected by four safety valves and one power operated relief valve. The lines are 30 inches in diameter with a design pressure of 1085 psig and a design temperature of 600°F. Pipe material is A155 GR C55 Class 1. Both the safety valves and the power operated relief valves are mounted perpendicular to the 30 inch line. The eight main steam safety valves have a combined rated capability of 6,580,000 lbs./hr. Each power operated relief valve is rated at 380,000 lbs./hr.

On Friday afternoon, March 17, RG&E learned that a stress analysis, performed by Gilbert Associates, of the main steamline safety valve nozzle interface revealed that an undesirable stress condition could exist when the safety valves actuated. On Saturday, March 18, a temporary support to correct this problem was designed

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DATE March 24, 1972
TO Dr. Peter A. Morris

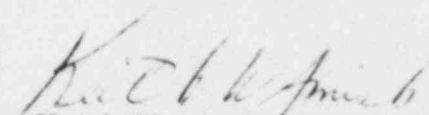
and by Sunday, 6:00 a.m., installation was complete. No difficulty was anticipated with the power operated relief valves. However, on Thursday, March 23, Gilbert Associates performed a stress analysis of this pipe-nozzle interface which revealed stress conditions higher than acceptable. Installation of supports similar to those used under the safety valves was complete by 8:00 p.m.

The attached sketches A and B indicate the valve-steamline configuration and the temporary support under the safety and power operated relief valves. Administrative procedure provides for backing off the jacking bolts when the plant is cooled down, since the bolts are set for the operating condition.

It is planned to perform a permanent modification during our spring 1972 refueling shutdown and to remove the temporary modification. At present, however, the permanent design has not been finalized.

The supports were conservatively sized for the downward reaction resulting from blowing safety valves. Installation of the supports reduces the total circumferential and longitudinal stresses during blowing to acceptable values.

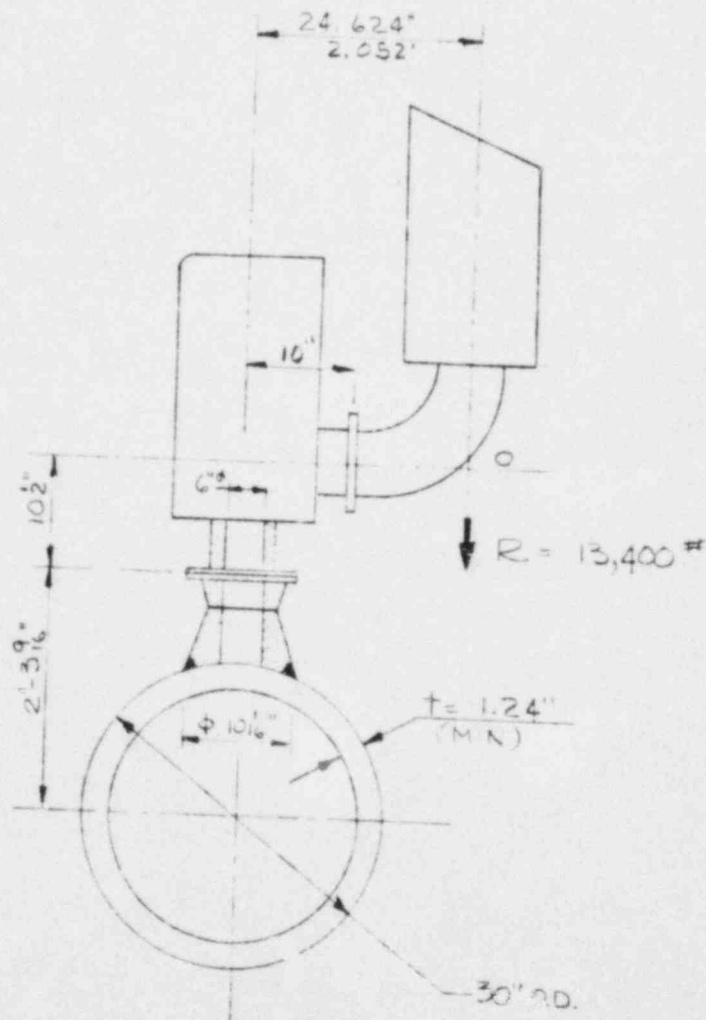
Very truly yours,


Keith W. Amish

Attachment

xc: James P. O'Reilly
Director, Region I
Division of Compliance

GINNA STATION
SAFETY VALVE
STEAM LINE CROSS SECTION



SAFETY VALVE

THRUST LINE

5' 6" DISCH. ELL.

1" VALVE

10' DISCH. ELL.

2' 4"

1" VALVE

GINNA STATION

6" SCHED. 40 Z

6' 9 1/4"

6" SCHED. 40 Z

6' 9"

4-1 1/8" Φ

12x12x1" PL

W10x49

5 1/2"

4-1 1/8" Φ

12x12x1" PL

W12x65

5 1/2"