

CO Inquiry Report No. 50-247/72-10

Subject: Consolidated Edison Company

License No.: DPR-26

Facility: Indian Point 2 - PWR

Title: Equipment Deficiency - Potential for Catastrophic Failure of
Main Steam Safety Valves

Prepared By: G. L. Madsen
G. L. Madsen, Reactor Inspector

Date

A. Date and Manner AEC was Informed:

During an inspection on March 14 and 15, 1972 and by telephone on March 31, 1972 from Mr. Makepeace, Startup Manager IP-2.

B. Description of Particular Event or Circumstances:

Dynamic stress analysis calculations indicate that an unsatisfactory margin of safety would exist during a "full blow" of the main steam safety valves.

C. Action by Licensee:

Modification of the discharge piping for the main steam safety valves has been initiated. The modification is composed of replacement of the 90 degree discharge elbow with a 45 degree elbow. Additionally, the weldolet on the main steam piping is to be reinforced. Six to eight weeks will be needed for the completion of this modification.

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CO INQUIRY REPORT NO. 50-244/72-05

Subject: Rochester Gas & Electric Corporation

License No.: DPR-18

Facility: Ginna-PWR

Title: Equipment Deficiency - Potential for Catastrophic Failure
of Main Steam Safety Valves

Prepared by: W. H. Baunack
W. H. Baunack, Reactor Inspector

3/21/72
Date

A. Date and Manner AEC was Informed:

March 21, 1972, by telephone call at 1000 hours from Mr. C. Platt,
Plant Superintendent.

B. Description of Particular Event or Circumstance:

Preliminary dynamic stress analysis calculations show that the resultant reactive force imposed by the actuation of the main steam line safety valves would overstress the welds, at the weldolet, where the main steam line safety valves are connected to the main steam header.

C. Action by Licensee:

The safety valve discharge elbows have been supported by running a 12 x 12 inch steel I beam parallel to and below the main steam header across three floor support columns. A six inch pipe has been welded to the safety valve discharge elbows, and terminates on a 12 x 12 x 1 inch steel plate which rests on the I beam. Four jack screws are provided in the plate to accommodate expansion. The four safety valves on both headers have been supported.

The licensee has agreed to extend their stress analysis review to include the pressurizer safety/relief valve installation.

A written report of this matter will be submitted to DRL within 10 days.

Subject: Rochester Gas & Electric Corporation

License No.: DPR-18

Facility: Ginna - PWR

Title: Equipment Deficiency - Potential for Catastrophic Failure
of Main Steam Relief Valves

Prepared by: W. H. Baunack
W. H. Baunack, Reactor Inspector

3/27/72
Date

A. Date and Manner AEC was Informed:

March 23, 1972, by telephone call at 1515 hours from Mr. John Arthur, Engineering Department, and Mr. C. Platt, Plant Superintendent.

B. Description of Particular Event or Circumstance:

RG&E commissioned Gilberts Associates, Inc. to perform a dynamic stress analysis of the main steam header relief valve mountings. Preliminary calculations indicate the same condition exists at the relief valve mountings as at the safety valve mountings, i.e., they would be overstressed during a full blow condition.

C. Action by Licensee:

A support structure for the relief valves is under construction.

The licensee will perform an analysis of the pressurizer safety and relief valve mountings. In addition, the moisture separator safety valve mountings will be analyzed.

A report of this matter will be submitted to DRL.

CO Inquiry Report No. 50-29/72-04

Subject: Yankee Atomic Electric Company

License No.: DPR-3

Facility: Yankee Rowe - PWR

Title: Equipment Deficiency - Potential for Catastrophic Failure
of Main Steam Line Safety Valves

Prepared by: W. H. Baunack
W. H. Baunack, Reactor Inspector

3/27/72
Date

A. Date and Manner AEC was Informed:

March 23, 1972, during a phone conversation with Mr. H. Autio, Plant Superintendent.

B. Description of Particular Event or Circumstance:

Dynamic stress analysis calculations show that an unsatisfactory margin of safety would exist where the main steam safety valves are connected to the main steam header under full blow conditions.

C. Action by Licensee:

A permanent support structure for the main steam safety valves will be erected prior to plant startup.

The licensee is considering extending their stress analysis review to include the pressurizer safety and relief valve installations.

A written report of this matter will be submitted to DRL.