



Consumers
Power
Company

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0550

September 30, 1983

James G Keppler, Administrator
Region III
US Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

DOCKET 50-255 - LICENSE DPR-20 -
PALISADES PLANT - 10 CFR 21 REPORT - DEFECTIVE ITT-GRINNELL HYDRAULIC SNUBBERS

The attached 10 CFR 21 Report provides information on the apparent manufacturing deficiency discovered in the ITT-Grinnell Hydraulic Snubbers used to provide seismic restraint to the Palisades Plant steam generators. As a result of an evaluation of the deviation, it was determined that this occurrence is reportable in accordance with 10 CFR 21, "Reporting of Defects and Noncompliances."

Sixteen (16) ITT-Grinnell Snubbers are in service at the Palisades Nuclear Plant. The deficient valve blocks of the snubbers will be remachined, the snubbers will be rebuilt and functionally tested.

This correspondence confirms a telecon report made to Mr Duane Boyd of your Staff on September 28, 1983 and thus conforms with the notification criteria of 10 CFR 21.21(b)(2).

Brian D. Johnson

Brian D Johnson
Staff Licensing Engineer

CC Administrator, Region III, USNRC
NRC Resident Inspector - Palisades

Attachment

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10 CFR 21 REPORT

The following information is provided below as required by 10 CFR 20:

1) Name and address of individual informing the Commission:

Brian D Johnson
Consumers Power Company
1945 W Parnall Rd
Jackson, MI 49201

2) Facility identification, activity or basic component which fails to comply or contains defects is:

Hydraulic Snubbers; S/N 1957, 1962, (8" bore x 5" stroke)

3) The firm constructing facility or supplying the basic component which failed to comply or contained defect is:

ITT-Grinnell
260 W Exchange St
Providence, RI 02901

4) a. Nature of defect or failure to comply is:

Dimensioned stack-up of the valve block revealed that the end spring became "solid" before the necessary shuttle valve travel occurred. This resulted in the failure of the shuttle to close the appropriate ports needed to cause lock-up of the snubber. See attached figure.

b. The safety hazard which was or could be created is:

Reduced seismic restraint of steam generators

5) The date when information of defect or failure to comply was obtained is:

September 27, 1983.

6) In the case of a basic component which contains a defect or fails to comply, the number and location of all such components in use at, supplied for or being supplied for one or more facilities or activities subject to Part 21 is:

16 ITT-Grinnell snubbers of this type are used at the Palisades Nuclear Plant for seismic restraint of both steam generators (8 snubbers per steam generator). Snubber location numbers are 46 through 61, inclusive.

7) a. The corrective action planned or taken is:

1. Determine the appropriate as-found dimensions of the valve blocks for the remaining 14 snubbers.
2. Machine deficient valve blocks as necessary.
3. Rebuild snubbers.
4. Perform functional test of snubbers.

b. The name of the individual/organization responsible is:

Palisades Nuclear Plant

8) Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being or will be given to purchasers or licensees:

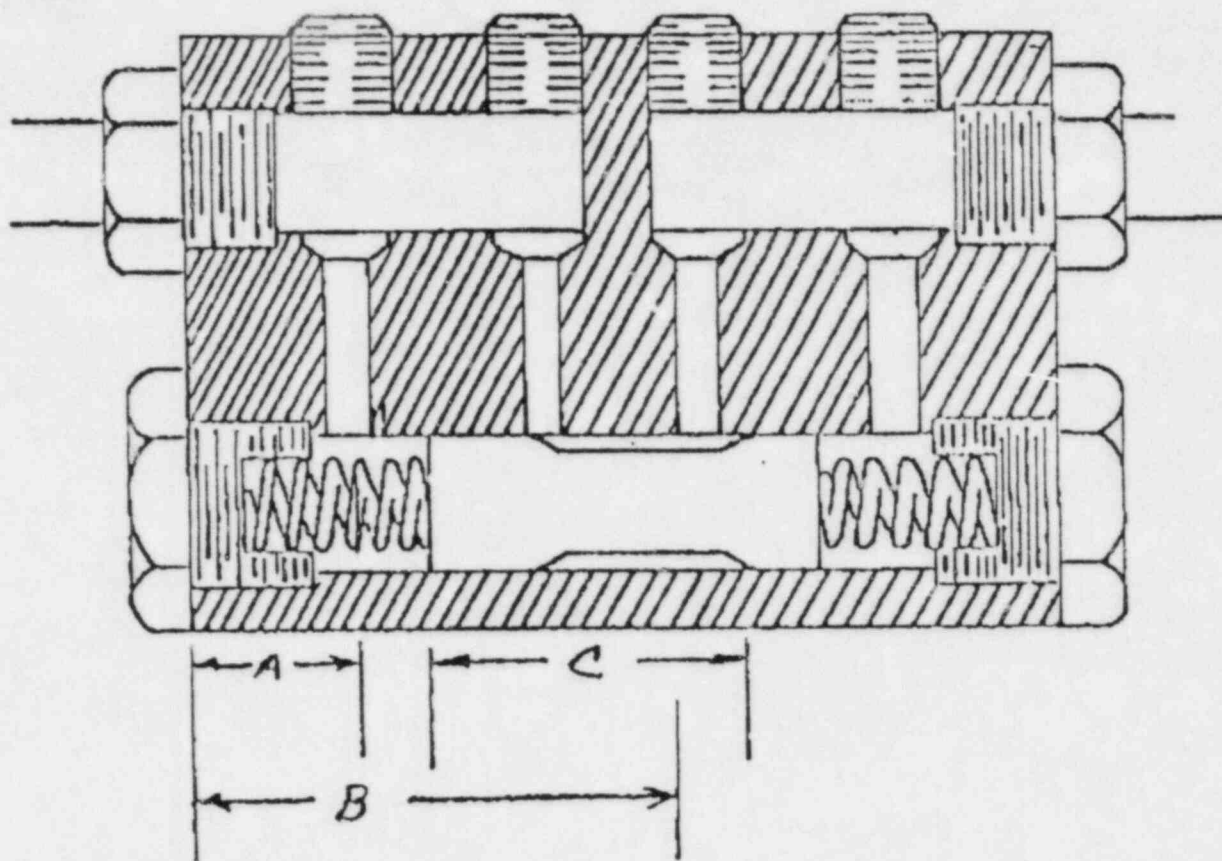
None

Prepared By RD/Kuch

Date 9/21/83

Approved Yes ☒ No ☐

David J. Vandell Wall Date 9/28/83
Nuclear Licensing Administrator



LEGEND

- A. Spring position with respect to valve block surface when spring is solid = .885.
- B. Distance from valve block surface to edge of port = 2.00.
- C. Distance from spring contact surface or shuttle to sealing land = 1.187.

$A + C \leq B$ to create seal

$$.885 + 1.187 \not\leq 2.0$$

$$2.072 \not\leq 2.0$$