

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I

631 PARK AVENUE KING OF PRUSSIA, PENNSYLVANIA 19406

Docket Nos. 50-245 50-336 50-423 NOV 1 6 1979

Northeast Nuclear Energy Company

ATTN: Mr. W. G. Counsil

Vice President - Nuclear Engineering and Operations

P. O. Box 270

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Gentlemen:

The enclosed IE Circular No. 79-22, "Stroke Times for Power Operated Relief Valves," is forwarded to you for information. No written response is required. Should you have any questions related to your understanding of this matter, please contact this office.

Sincerely,

Boyce H. Grier

Enclosures:

1. IE Circular No. 79-22

2. List of Recently Issued Circulars

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ENCLOSURE 1

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
WASHINGTON, D. C. 20555

DUPLICATE

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STROKE TIMES FOR POWER OPERATED RELIEF VALVES

Description of Circumstances:

Most PWRs utilize power-operated relief valves (PORVs) to prevent overpressurization of the reactor coolant system when the reactor is at low temperature. On April 13, during a pressure transient at Robinson 2, the PORVs did not function as rapidly as intended. The estimated stroke time for the PORVs was three to five seconds whereas the intended stroke time is two seconds. As a result, the pressure transient did approach a pressure limit which is based on nil ductility considerations. Prior to April 13, the PORVs had not been used or exercised since February, 1978, when they had been repacked and stroked. Although the valve stems were scored at that time, stroke times were satisfactory. The licensee and the valve manufacturer believe that the scored stems and the 14-month interval without exercise resulted in poor performance of the PORVs.

Recommended Actions for L :ensees' Consideration:

All holders of PWR operating licenses or construction permits should be aware of the potential problem of the type discussed above. Because of the generic implications in this matter, it is recommended that both licensees of operating facilities and holders of construction permits conduct a review to determine if periodic serveillance of PORVs is necessary to assure that the PORVs will perform as intended.

No written response to this Circular is required. If you require additional information regarding these matters, contact the Director of the appropriate NRC Regional Office.

ENCLOSURE 2

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RECENTLY ISSUED CIRCULARS

| Circular No. | Subject | First Date of Issue | Issued To |
|-----------------|---|---------------------|--|
| 79-15 | Bursting of High Pres- sure Hose and Malfunc- tion of Relief Valve "O" Ring in Certain Self- Contained Breathing Apparatus | 8/8/79 | All Materials Priority I, Fuel Cycle and Opera- ting Power Reactor Licensees |
| 79-16 | Excessive Radiation Exposures to Members Of The General Public And A Radiographer | 8/16/79 | All Radiography Licensees |
| 79-17 | Contact Problem in SB-12 Switches on General Electric Metalclad Circuit Breakers | 8/14/79 | All Power Reactor Licensees with an OL or CP |
| 79-18 | Proper Installation of Target Rock Safety- Relief Valves | 9/10/79 | All Power Reactor Licensees with an OL or CP |
| 79-19 | Loose Locking Devices on Ingersoll-Rand Pumps | 9/13/79 | All Power Reactor Licensees with an OL or CP |
| 79-20 | Failure of GTE Sylvania Relay, Type PM Bulletin 7305, Catalog 5U12-11-AC with a 120V AC Coil | | All Fower Reactor Licensees with an OL or CP |
| 79-21 | Prevention of Unplanned Releases of Radioactivity | | All Power Reactor Licensees with an OL or CP |