



732

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
631 PARK AVENUE  
KING OF PRUSSIA, PENNSYLVANIA 19406

Docket Nos. 50-352  
50-353

March 14, 1980

Philadelphia Electric Company  
ATTN: Mr. John S. Kemper  
Vice President  
Engineering and Research  
2301 Market Street  
Philadelphia, Pennsylvania 19101

Gentlemen:

The enclosed IE Circular No. 80-04, "Securing of Threaded Locking Devices on Safety-Related Equipment," is forwarded to you for information. No written response is required. If you desire additional information regarding this matter, please contact this office.

Sincerely,

*Robert V. Callan*  
for Boyce H. Grier  
Director

Enclosures:

1. IE Circular No. 80-04
2. List of Recently Issued IE Circulars

CONTACT: L. E. Tripp  
(215-337-5232)

cc w/encls:

V. S. Boyer, Senior Vice President, Nuclear Power

8003260059

ENCLOSURE 1

SSINS NO. 6830  
Accession No.:  
7912190662

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

IE Circular No. 80-04  
Date: March 14, 1980  
Page 1 of 3

SECURING OF THREADED LOCKING DEVICES ON SAFETY-RELATED EQUIPMENT

Description of Circumstances:

In recent months, several licensee event reports have been submitted that address the inoperability of safety-related equipment caused by loosened threaded locking devices. Some of the events are listed below:

I. MAIN STEAM CHECK VALVE HEX NUT LOCKING DEVICES, TURKEY POINT NO. 3  
REPORTABLE OCCURRENCE 250-79-31 (Oct. 22, 1979)

During a planned outage of Turkey Point Unit No. 3 on October 7, 1979, a two-inch internal diameter hex nut was discovered in the internals of a steam supply valve for a moisture separator-reheater. Investigation revealed that the nut was missing from the disc stud of the 3A main steam check valve. The disc and disc stud were in the proper position and the valve was fully operable. The 3B and 3C main steam check valves were inspected and the disc stud, nut and locking washer were in place although some distress was noted on the 3C locking washer in that the tack welds on the locking pin had separated.

The licensee installed an improved locking device on the disc stud on each of the three main steam check valves. The locking device consists of a tab washer that is prevented from rotating by a pin and by fingers that extended on either side of the valve arm; the tabs are bent up against two faces of the hex nut. The main steam isolation valves (MSIV) have the same type of hex nut locking device. The valves are Schutte and Koerting SK Type 828.

II. SLIPPAGE AND MISALIGNMENT OF VALVE LINKAGES, DAVIS-BESSE LICENSEE EVENT  
REPORT NOS 78-101 (Nov. 1, 1978), 78-126 (Jan. 26, 1979), 79-068 (July  
19, 1979), and 79-098 (Oct. 30, 1979)

These reports involve the inoperability of two service water system valves and one component cooling system. The licensee declared inoperable because the linkage was missing or had loosened to the point of misalignment of the valve linkage. The licensee stated that the manual torque defines the torque used to retain the actuator linkage.

DUPLICATE DOCUMENT

Entire document previously  
entered into system under:

ANO 7912190662

No. of pages: 4