

REPORT NUMBER: AO-50-265/75-24

REPORT DATE: July 30, 1975

OCCURRENCE DATE: July 20, 1975

IDENTIFICATION OF OCCURRENCE:

Crack on Reactor Feedwater System Flushing line 2-3206B-4"-C.

CONDITIONS PRIOR TO OCCURRENCE:

Unit 2 was in the Run Mode at 1460 MW_t and 440 MW_e.

DESCRIPTION OF OCCURRENCE:

On July 20, 1975, at 2:30AM, a search for leakage was commenced due to excessive operation of Reactor Building Floor Drain Sump Pump 2B. At 7:00PM the leak was located on line 2-3206B-4"-C, the B reactor feedwater flushing line, at the point where it is welded to the main feed header. An orderly shutdown was commenced at 8:30PM and the reactor was shutdown at 4:40AM on July 21, 1975.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Equipment Failure -

The apparent cause of this occurrence is designated as equipment failure. The crack originated at a stress point on the weld joining the pipe to a reinforcing plate at the junction of the flush line to the main header. The stress point was apparently caused due to improper blending of a fillet weld at the pipe to reinforcing plate joint.

ANALYSIS OF OCCURRENCE:

The failed line was beyond the boundary of the primary coolant isolation valves. Thus, the leak was capable of being isolated by action of the check-valves in the feedwater line to the reactor. The supply of coolant to the reactor was not jeopardized since the Emergency Core Cooling Systems were operable at the time of the occurrence. There was no radioactivity released to the environs; thus, there was no effect on the health and safety of the public as a result of this occurrence.

CORRECTIVE ACTION:

An 8 inch section of pipe which contained the crack was removed and a new section was welded in place.

FAILURE DATA:

There have previously been several similar failures in the Feedwater System at Quad-Cities Station due to vibration problems. Proposed solutions to the vibration problem are currently being designed by the Edison Station Nuclear Engineering Department.

8306170156 750729
PDR ADOCK 05000265
S PDR



Commonwealth Edison
Quad-Cities Generating Station
Post Office Box 216
Cordova, Illinois 61242
Telephone 309/654-2241

NJK-75-385

July 29, 1975

Director of Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

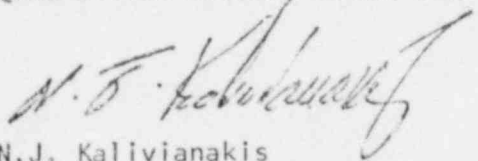
Reference: Quad-Cities Nuclear Power Station
Docket No. 50-265, DPR-30, Unit 2
Appendix A, Sections 1.0.A.5, 6.6.B.1.a

Enclosed please find Abnormal Occurrence Report No. 50-265/75-24 for Quad-Cities Nuclear Power Station. This occurrence was previously reported to Region III, Directorate of Regulatory Operations by telephone on July 21, 1975 and to you and Region III, Directorate of Regulatory Operations by telecopy on July 21, 1975.

This report is submitted to you in accordance with the requirements of Technical Specification 6.6.B.1.a.

Very truly yours,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION


N.J. Kalivianakis
Station Superintendent

NJK/OMH/vmb

cc: Region III, Directorate of Regulatory Operations
J.S. Abel



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