

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



NJK-74-318

October 7, 1974

Mr. John F. O'Leary, Director
Directorate of Licensing Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545

REFERENCE: Quad-Cities Nuclear Power Station
Docket No. 50-254, DPR-29
Appendix A, Sections 1.0.A.2, 3.8.E, 6.6.B.1.a

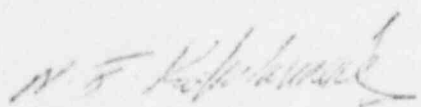
Dear Mr. O'Leary:

Enclosed please find Abnormal Occurrence Report No. A.O. 50-254/74-30 for Quad-Cities Nuclear Power Station. This occurrence was previously reported to Region III, Directorate of Regulatory Operations by telephone on September 27, 1974 and to you and Region III, Directorate of Regulatory Operations by telecopy also on September 27, 1974.

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/REQ/rhb

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

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REPORT NUMBER: AO 50-254/74-30

REPORT DATE: October 7, 1974

OCCURRENCE DATE: September 27, 1974

FACILITY: Quad-Cities Nuclear Power Station
Cordova, Illinois 61242

IDENTIFICATION OF OCCURRENCE: Radwaste tank farm high curie inventory.

CONDITIONS PRIOR TO OCCURRENCE:

Both Units in Run Mode; Unit 1 steady state at 779 MWe; Unit 2 at 200 MWe and increasing. Radwaste waste collector filter was out of service for maintenance.

DESCRIPTION OF OCCURRENCE:

On September 26, 1974, the radwaste waste collector filter was out of service for maintenance. Normal flow of water from the waste collector was thus interrupted and the water was being sent to the waste surge tank. A sample taken at 8:00 AM on September 26, indicated the total tank farm curie inventory was 3.66 curies; 2.66 curies was in the waste surge tank. The waste filter was returned to service at 7:00 PM on September 26, at which time the operating department again began processing the waste collector in the normal manner through the waste filter and waste demineralizer to storage. Recycling of the waste surge tank was also begun following return to service of the waste collector filter. At 8:00 AM on September 27, 1974, the tank farm curie inventory still exceeded 2 curies, thus violating Technical Specification 3.8.E.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Unusual Service condition:

The apparent cause of this occurrence is designated as due to an unusual service condition. The unusual condition was that the waste collector filter was out of service. Since the waste water continued to flow to the radwaste facility it was necessary to route the waste collector to the surge tank to accomodate the water inventory. Following return to service of the filter, the water was not able to be processed to be within the limits within the time element allowed.

ANALYSIS OF OCCURRENCE:

There were no abnormal health or safety implications associated with this occurrence. There were no excessive personnel exposures related to this since the tank farm area radiation dose rates remained within their normal range. There were no off-site exposure problems since all of the waster was processed back to the radwaste facility.

CORRECTIVE ACTION:

The immediate corrective action taken was to recycle the waste surge tank water as soon as was possible. The recycling continued until the waste surge tank was completely processed. At 1:30 PM on September 28, 1974, the tank farm curie inventory was 1.73 curies which was within the Technical Specifications limit.

At the present time, a new addition to the radwaste facility is under construction. The added capacity and flexibility to be provided by this addition should eliminate occurrences of this type in the future.

FAILURE DATA:

There is no failure data directly reportable for this occurrence since there were no equipment failures directly involved. However, the following information is provided since the filter being out of service was the cause for the unusual service condition. The waste collector filter was out of service for replacement of the filter elements as a step to resolve a problem of short runs for the waste demineralizer resins. The filter element replaced was found to be defective and to date since the element replacement, the waste demineralizer performance has been adequate. The filter element involved is as described below:

CROLL-REYNOLDS ENGINEERING COMPANY, INC.
Filter consisting of (4) 2-3/4" O.D. by
4'-8" effective length Type 304 stainless
steel "Wedge Wire" filter element assemblies
suspended from a Type 304 stainless steel
tube sheet.

Cumulative experience has shown that there had been previous problems with these filters. Operating practice changes recommended by the vendor have been implemented recently. It is felt that these changes should improve the future performance of these filters.