



Commonwealth Edison
Quad-Cities Nuclear Power Station
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NJK-75-382

July 25, 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. 50-254, DPR-29, Unit 1
Appendix A, Sections 1.0.A.8, 6.6.B.1.a

Enclosed please find Abnormal Occurrence Report No. 50-254/75-16 for Quad-Cities Nuclear Power Station. This occurrence was previously reported to Region III, Directorate of Regulatory Operations by telephone on July 18, 1975 and to you and Region III, Directorate of Regulatory Operations by telecopy on July 18, 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/LLH/lk

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

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REPORT NUMBER: AO 50-254/75-16

REPORT DATE: July 25, 1975

OCCURRENCE DATE: July 17, 1975

FACILITY: Quad-Cities Nuclear Power Station
Cordova, Ill. 61242

IDENTIFICATION OF OCCURRENCE:

Unsampled laundry water was added to the "A" floor drain sample tank and to the river.

CONDITIONS PRIOR TO OCCURRENCE:

Unit 1 was operating steady state at 662 MWe. Unit 2 was operating steady state at 594 MWe.

DESCRIPTION OF OCCURRENCE:

At 10:15 a.m. on July 17, 1975, discharge of "A" floor drain sample tank to the river, batch number 3476, was commenced. The sample activity was 2.45×10^{-3} uci/ml in "A" floor drain sample tank.

The "A" floor drain sample tank was being discharged to the river by gravity feed. At 6:30 p.m. on July 17, 1975 the laundry drain sample tank was placed on recirculation prior to having radiation protection take a sample. At 7:30 p.m., the operator noticed a 2.0% increase in the "A" floor drain sample tank level and immediately stopped the discharge of the "A" floor drain sample tank to the river.

The operator discovered a 60% drop in the laundry drain sample tank level. Upon further investigation Valve 1/2-2099-146 was found to be open and not locked closed.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

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Operator Performance

Prior to discharging the "A" floor drain sample tank to the river (batch number 3476) a valve lineup and checklist as required by the discharge sheet was performed. This particular valve checklist indicated that valve 1/2-2099-146 was locked closed.

Evidently the operator did not check closely enough to determine whether valve 1/2-2099-146 was in fact closed.

July 25, 1975

ANALYSIS OF OCCURRENCE:

The discharge of "A" floor drain sample tank had begun at 10:15 a.m. on July 17, 1975 and was stopped at 7:00 p.m. At 6:30 p.m. the laundry drain sample tank was placed on recirculation and was terminated at 7:00 p.m. During the time the laundry drain sample tank was on recirculation a 60% decrease in the laundry drain sample tank level and a 2% increase in "A" floor drain sample tank level were noticed.

The amount of water added to the "A" floor drain sample tank was approximately 420 gallons and the amount of water emptied from the laundry drain sample tank was approximately 571 gallons. Therefore 151 gallons of unsampled water was discharged to the river.

At 10:30 p.m. the remaining water in the laundry drain sample tank was sampled. The sample activity was 1.26×10^{-4} uci/ml which was less activity than the "A" floor drain sample tank activity of 2.45×10^{-3} uci/ml.

It can therefore be concluded that from the period of 6:30 p.m. to 7:00 p.m., the laundry drain sample tank was being discharged to the river rather than the floor drain sample tank and, simultaneously, the contents of the laundry drain sample tank were being added to the floor drain sample tank. The discharge rate for discharging 151 gallons in 30 minutes would be approximately 5 gallons per minute. The allowed discharge rate, based on the activity in the laundry drain sample tank was 41.7 gpm; therefore, no discharge rates were exceeded and there was no effect on the health and safety of the public from this occurrence.

CORRECTIVE ACTION:

Both the "A" floor drain sample tank discharge to the river and the laundry drain sample tank recirculation were immediately stopped. Samples were taken of the "A" floor drain sample tank and laundry drain sample tank.

Recently radwaste foremen were selected to be directly responsible for all radwaste operations. The radwaste foreman in charge of each shift must now verify the valve checkoff list prior to discharging to the river. This redundancy in valve lineup checking should remove any possibility of improper valve lineups preceding discharges to the river.

FAILURE DATA:

Two similar occurrences have taken place in the past at Quad-Cities Station (AO 50-254/74-38 and AO 50-254/75-14). Both of these involved operator performance. The redundancy of having both the radwaste foreman and the radwaste operator verifying proper valve lineup should preclude any further occurrences of this type.