



**Commonwealth Edison**  
Dresden Nuclear Power Station  
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Telephone 815/942-2920

August 8, 1994

GFSLTR: 94-0236

U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Document Control Desk

Subject: Dresden Nuclear Power Station Units 1,2, and 3  
NRC Docket Number 50-10, 50-237, 50-249  
Unexpected Sample Result for the  
Routine Environmental Sample

Reference: (1) Offsite Dose Calculation Manual, Rev. 1, dated January, 1994

This letter is to inform you that an unusually high sample result will appear in the 1994 Annual Environmental Operating Report. A composite sample taken from the Dresden Unit 2/3 discharge canal from May 9 to May 13, 1994, was found to contain approximately 400 pCi/l Cs-137. The reporting limit, per Reference 1, is 50 pCi/l averaged over a calendar quarter. With this sample result included, the average value for the quarter was 18.1 pCi/l Cs-137, which is less than the reporting limit, but higher than normal.

The reason for the abnormally high sample result on May 13, 1994, was that the grab sample was apparently taken during a liquid effluent discharge. Daily grab samples were being taken because the automated compositor was out-of-service. Without the diluting effect of the compositor, the sample results were artificially high.

Other factors contributed, and an investigation was conducted that resulted in recommendations for program improvements. This investigation is on file at our facility. The results will also be discussed in the 1994 Annual Environmental Operating Report.

If you staff has any questions concerning this letter, please refer them to Lois Jordan, Radiation Protection Supervisor, at (815) 942-2920.

Sincerely,

Gary F. Spedl  
Station Manager  
Dresden Station

GFS/EC:cfq

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