



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

DEC 27 1985

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34-06903-05

MEMORANDUM FOR: John G. Davis, Director, NMSS  
Wayne G. Kerr, Director, SP  
Robert B. Minogue, Director, RES  
James M. Taylor, Director, IE  
Thomas E. Murley, Regional Administrator, Region I  
J. Nelson Grace, Regional Administrator, Region II  
James G. Keppler, Regional Administrator, Region III  
Robert D. Martin, Regional Administrator, Region IV  
John B. Martin, Regional Administrator, Region V

FROM: C. J. Heltemes, Jr., Director  
Office for Analysis and Evaluation  
of Operational Data

SUBJECT: PRELIMINARY CASE STUDY REPORT -  
RUPTURE OF AN IODINE-125 BRACHYTHERAPY SOURCE AT THE  
UNIVERSITY OF CINCINNATI MEDICAL CENTER

The rupture of an iodine-125 seed used in brachytherapy treatment at the University of Cincinnati Medical Center has been studied by AEOD. A preliminary report of the study is enclosed.

In accordance with our peer review process, prior to finalization and distribution of our case study reports, we are providing NMSS, IE, RES, SP, the Regional Offices, the licensee, and the 3M Company (the seed manufacturer) with a copy of a preliminary report for review and comments, particularly regarding accuracy and completeness of the technical details. The preliminary findings, conclusions, and recommendations are provided in order to give a more complete picture of the entire report. Changes to the findings, conclusions, and recommendations will be made if the underlying information concerning the events is in error. Therefore, comments are being solicited on the technical accuracy of the report.

Since we wish to finalize and issue the report shortly, we ask that comments be received by us within 30 days from receipt of the preliminary copy. Should you need additional review time please let us know.

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We welcome comments either informally by phone or by letter. If you have any questions, please feel free to contact Sam Pettijohn on FTS-492-4496.

Original signed by:  
C. J. Heltemes, Jr.  
C. J. Heltemes, Jr., Director  
Office for Analysis and Evaluation  
of Operational Data

Enclosure:  
As Stated

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