



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

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MEMORANDUM FOR: Joseph O. Bunting, Chief  
Policy and Program Control Branch  
Division of Waste Management, NMSS

FROM: Frank A. Costanzi, Chief  
Waste Management Branch  
Division of Radiation Programs  
and Earth Sciences, RES

SUBJECT: REVIEW OF SHORT TERM TECHNICAL ASSISTANCE UNDER HLW FIN  
A-1165

Per Philip Altomare's request of February 12, 1986, we have reviewed the task statement for short term technical assistance under HLW FIN A-1165. We believe the work called for would strengthen the NRC's licensing posture, and we would like to call to your attention previous and current NRC funded work that may benefit from and/or assist the subject project. About six years ago, the Office of Standards Development (SD) sponsored work to categorize accident experience at non-reactor nuclear facilities (primarily U.S.). This work was carried out by ANL's environmental division and included examination of initiating events, accident scenarios, and accident consequences. The project was terminated prior to completion of a planned statistical analysis of the data collected. However, the data and operating system were turned over to AEOD at the time of termination. More recently, the Office of Research (DRPES) has been funding work at Sandia National Laboratories to develop a methodology to identify systems, structures, and components important to safety during the operational (pre-closure) phase of a HLW repository (A-1380). This work is nearing completion and a final report will be submitted in May of this year. We understand that at the conclusion of this year's funding, the Engineering Branch (DWM) is planning to apply the methodology. This follow-on work is currently being coordinated by Jerry Pearing, WMEG.

We believe that the accident data collected by SD might provide both a statistical base from which to estimate likelihood of analogous initiating

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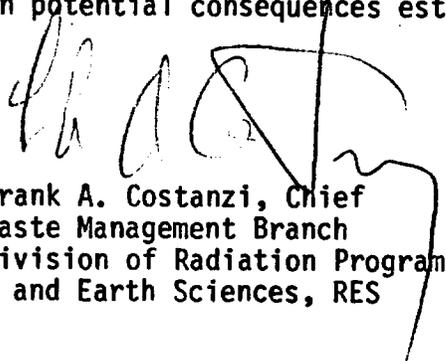
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P. Altomare	Pearing
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events at a repository and a check on potential consequences estimated by the pre-closure risk methodology.



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