



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

JUL 23 1985

MEMORANDUM FOR: **Melvin Silberberg**, Chief  
Fuel Systems Research Branch  
Division of Accident Evaluation, RES

FROM: L. G. Hulman, Chief  
Accident Evaluation Branch  
Division of Systems Integration

SUBJECT: CONSEQUENCE CALCULATIONS FOR NUREG-0956

My previous memorandum of July 22, 1985 on the above subject contained, among other information, several complementary cumulative distribution functions (CCDF's) showing the distribution of calculated early and latent cancer fatalities.

We have just received a letter from Sandia (See Enclosure 1) informing us that their previously recommended procedure, which was used to obtain these curves, is not correct. This is due to a possible error in summing the contributions of the two different population segments (95% evacuating, 5% non-evacuating) in obtaining the CCDF's. Follow-up calls between the staff and Sandia on July 22 and 23, 1985 have indicated that the computed mean values of these quantities as well as the latent cancer fatality CCDF's are correct, but that the early fatality CCDF's may be in error. Internal discussion among the staff has indicated that the error, if any, is likely to be small.

Nevertheless, we plan to recompute these CCDF's. Sandia has begun code modifications to obtain the correct CCDF's. We will coordinate the changes between Sandia as well as ORNL to see that the staff version of CRAC2 at NIH is appropriately modified. We expect recomputed CCDF's to be available on Monday, July 29, 1985.

In view of the above information, I recommend that the CCDF's provided in my memo of July 22, 1985 be regarded as tentative, pending their recomputation.

A handwritten signature in dark ink, appearing to read "L. G. Hulman".

L. G. Hulman, Chief  
Accident Evaluation Branch  
Division of Systems Integration

Enclosure:  
As stated

cc: See Next Page

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