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DEC 5 1956

Fred W. Ford, Director, Community Affairs  
Division, Oak Ridge Operations

S. R. Sapirie, Manager, Oak Ridge Operations

Job 1611  
Prof 6968

**X-RAY EXPOSURE**

SYMBOL: ORB:CSS

Some of the recent reports on the subject of radiation exposure have given estimates of the average lifetime exposure to individuals from all sources. The reliability of such estimates may be adversely influenced through the variation in the dosimetry of medical exposures. Hence, it appears that records maintained in a single medical center following a standardized clinical exposure procedure might contribute a more reliable estimate of the average medical dose. To this end, we have received under date of November 27, 1956, a communication from the Director, Division of Biology and Medicine, which we quote:

"There is a great deal of interest at the present time in learning more accurately what the actual exposure to the American public is from diagnostic X-rays. It has occurred to some of us that the AEC communities might be particularly well suited to a pilot study of this problem. Medical care is above average and records should be well centralized and complete.

"I am therefore asking you to explore with the Oak Ridge Community Hospital the possibility of such a study being undertaken there."

Dr. Herman M. Roth has discussed this matter informally with Mr. Logan Ealet of the Oak Ridge Hospital Board. I would like for you to explore with the Hospital the feasibility of making their records available for study. It would be helpful to have some idea of the number and kinds of records that would need to be searched in terms of the values given for measured X-ray dose or dose estimate. It would be well to obtain some idea of the man-power requirement to perform the study and if possible some indication if the program could be undertaken at an early date without inconvenience to the Hospital.

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AUTHORITY: DOE-DPC  
BY E. B. BARNES, DATE:  
EB Barnes 4/18/86

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It would be appreciated if you can make arrangements for our Research and Development Division to discuss with the Hospital the details of this program in order that we may inform Washington.

ORIGINAL SIGNED BY  
E. A. WENDE

 S. R. Sapiris

CC: C. L. Dunham, Wash.  
N. H. Woodruff, ORO  
H. W. Roth, ORO



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