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Oak Ridge, Tennessee

JAN 26 1967

John A. Ewing
Dr. John A. Ewing, Project Leader
UT-AEC Agricultural Research Laboratory
1299 Bethel Valley Road
Oak Ridge, Tennessee

Subject: REPORT OF THE 115TH MEETING, AEC ADVISORY COMMITTEE FOR
BIOLOGY AND MEDICINE -- COMMENTS AND REQUIREMENTS FOR UT-AEC.

Dear Dr. Ewing:

We have received some comments resulting from the November 10, 1966, meeting at the University of Tennessee-AEC Agricultural Research Laboratory of the ACBM, and also certain requirements directed from the Division of Biology and Medicine as a result of the meeting. Quoted below is an excerpt from the Committee's report, and this is provided for your information and action:

"While the UT-AEC ARL facility provides a rather unique opportunity for long range studies with large animals, the Committee feels that full advantage has not been taken of this. Because of serious deficiencies in experimental design, dosimetry and instrumentation, the ACBM doubts that the goals sought will be realized if the program continues in its present form. In order to realize these important goals, a technically more sophisticated and better designed research program is needed."

We interpret this to mean that the Committee was especially interested in added strength in the statistics of experimental design, the advantages that could result from close cooperation with the local biometrics people at ORNL, and the building of basic quantitative biology into the large-animal program. Also, we feel sure they were thinking of your taking full advantage of the dosimetry people in ORNL Health Physics, with special attention to concepts of depth dose in relation to pathology and physiology.

In addition to the above, the Chairman has written to Dr. E. L. Green, Chairman of the ACBM, as follows:

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"As to the UT-AEC ARL, we are gratified to have your support for our staff's critical evaluation of the program. The latter was conveyed to Dr. Hall by letter dated March 4, 1966. As a result, the University has hired a knowledgeable scientist totally conversant with mammalian radiobiology who can assure sound planning of future large animal studies. He should be able to work well with Drs. Upton and Congdon at the Oak Ridge National Laboratory and Dr. Lushbaugh at the ORINS Medical Division in culling out from the many large animals left over from prior studies by this group and from elsewhere in the country those it is not warranted to hold for lifetime observation. Your suggestion of using an inter-laboratory approach to this problem is a most helpful one, and could be a beginning to a much closer relationship between the three groups in keeping with your recommendations."

In view of the above, I believe as soon as practical Dr. Hall should convene a panel of Dr. Noonan, Drs. Upton and Congdon from ORNL, and Dr. Lushbaugh from ORAU, to delve into this problem of animals worth keeping for further long-term data. We would request that Dr. Hall issue the invitations to the panel and we will be prepared to assist in anyway we can. We would expect to let DBM know about the meetings of the panel since this is an express desire of Dr. Dunham and the Chairman.

Very truly yours,

ORIGINAL SIGNED BY
HERMAN M. ROTH

Herman M. Roth
Director
Research and Development Division

CC: J. L. Dunham, HQ
R. C. Armstrong

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DIVISION CE

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