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Univ California
Radiation

1/21/38

38013

It was, on motion,

UNIVERSITY OF CALIFORNIA - RADIATION LABORATORY

RESOLVED RF 38005 that the sum of Thirty thousand dollars ($30,000), or as much thereof as may be necessary, be, and it hereby is, appropriated to the UNIVERSITY OF CALIFORNIA for completing the essential equipment of the RADIATION LABORATORY under the direction of Professor E. O. Lawrence during the two-year period beginning February 1, 1938, payments to be made upon request as the building program progresses.

The following were the considerations presented:

Natural Sciences

Previous Interest: None.

General Description: Professor E. O. Lawrence who recently created and developed the cyclotron, a magnetic resonance accelerator used in smashing the atom, is now building a new cyclotron, which, when completed, will be the most powerful of its kind in the world, capable of producing up to twenty-five million volt neutrons and fifty million volt alpha particles. Biology and medicine will have first call on the new machine. A new building is under construction, one end of which will house the cyclotron, while the other end will eventually be three stories high, the first floor housing physics and the shops, the second floor biology, and the third floor medical work.

When a small number of projects were chosen for support (Dr. Nils Bohr and his group at the University of Copenhagen, Professor Frederic Joliot and his group at the Laboratoire de Synthese Atomique, College de France, Paris, and Professor J. T. Tate and his group at the University of Minnesota), Professor Lawrence was not included for the reason that he has always been adequately supported elsewhere. However, an emergency has developed. Certain recent accidents including one fatal one at Columbia University have convinced Professor Lawrence that he must spend a sum considerably in excess of that planned, in order that this giant new machine may really be safe. Other recent developments have also indicated the desirability of building a machine somewhat larger than was originally planned. In the meantime, the other contributors found it impossible to increase their assistance. Of the $30,000 for

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which we are asked, approximately one-third will be used for increased protection, approximately one-third for increased size, and approximately one-third to meet rise in prices of materials.

Finances: For the years 1937 and 1938 the following grants have been made to this laboratory:

William H. Crocker (Building)	$ 75,000
Chemical Foundation	68,600
Research Corporation	10,000
Macy Foundation	7,000
University of California	45,000
National Advisory Cancer Council .	30,000
	$235,600

The funds under the proposed appropriation will be used for completing the equipment for biological and medical research.

Future Implications: None. The University will provide approximately $21,000 annually for the maintenance of the work of the laboratory. Report to be made in February, 1940.
