

SWPEF/6/319.2

9 February 1954

MEMORANDUM THRU: CHIEF, WEAPONS EFFECTS DIVISION
DEPUTY CHIEF OF STAFF, TECHNICAL SERVICES

FOR: CHIEF OF STAFF, AFSWP

SUBJECT: Report of Temporary Duty, 31 January - 6 February 1954

1. In accordance with Travel Order No. SWF-33 dated 29 January 1954, the undersigned visited the following places between 31 January 1954 and 6 February 1954 for the purposes indicated.

2. a. School of Medicine, University of Utah, 1 February 1954. Dr. Philip Price, Head, Department of Surgery, conducted the undersigned on a tour of his laboratory facilities and discussed the thermal studies which he has been conducting under an AFSWP supported contract. Dr. Price is continuing comparative studies of five types of thermal burns. He is using: (1) Contact burns, (2) steam scalds, (3) gasoline flash burns, (4) flame burns, and (5) oxygen-gas flash burns. His work is demonstrating major differences in these types of burns and the relationship between burn type, tissue damage, and infection.

b. USNRDL, San Francisco, California, 2-3 February 1954.

(1) Visited Captain A. R. Behnke, Acting Head, Biological and Medical Science Division, for the purpose of discussing the initiation of a thermal research program at NRDL to be supported by the AFSWP. Drs. E. L. Alpen and William Plum were contacted and a program mutually acceptable to the AFSWP and NRDL was developed. This portion of the trip is detailed in paragraphs 3 and 4 of a trip report submitted on 5 February 1954 by Lt. Paul Ifland who accompanied the undersigned to NRDL.

(2) Dr. Victor P. Bond reported on the progress attained in his low energy x-ray studies being supported by the AFSWP. His preliminary work tends to show that the low energy ionizing radiation components of atomic weapons may well not be of physiological importance. These studies are being continued.

(3) A proposed neutron experiment using rats and dogs, also to be conducted by Dr. Bond's group, was discussed. This proposal has been favorably considered by the AFSWP and only a few details of the experimental procedure had to be altered in line with AFSWP requirements.

Declassified by DNA, Chief, ISTS

Robert L. Payne
Date: 8/22/94

HRE-0493

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c. Reed College, Portland, Oregon, 4 February 1954. The undersigned discussed the continuation of Class II Training for Armed Forces Medical Officers during the 1954-55 school year with Dr. Arthur Scott, Chairman of the Chemistry Department and monitor of this AFSWP supported program. Various members of the teaching faculty were contacted and their opinions solicited with regard to the content of the curriculum and the aims of the course at Reed College.

d. School of Medicine, University of Washington, Seattle, Washington, 5 February 1954. Dr. J. Thomas Payne, Assistant Professor of Surgery, conducted the undersigned on a tour of the medical school research facilities and the research building of the Veterans Administration Hospital. Dr. Payne has an AFSWP supported contract on "Thermal Effects on Cutaneous and Systemic Lipids." This program is now in its second year and is developing into a basic study of analytical methods for the separation and determination of skin lipid fractions. The inherent difficulties in this type of research are hampering an excellent research group.

3. Recommendations:

a. It is recommended that the following action be taken with regard to the above listed research projects:

(1) Paragraph 2a: Dr. Price's project should be critically reviewed at the next meeting of the Thermal Panel with regard to the content and direction of his work.

(2) Paragraph 2b (1): Recommend that the sum of \$40,000. of FY 54 money and a like amount from FY 55 funds be allocated to NRDL to carry out a bio-medical thermal project for the purpose of studying skin burns behind fabrics plus allied experimentation.

(3) Paragraph 2b (3): Recommend that \$20,000.00 of FY 54 funds be allocated to NRDL for the initiation of a study of neutron effects in large animals.

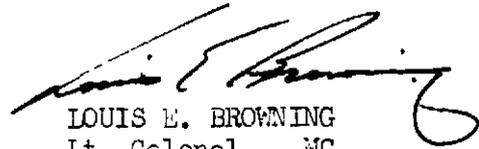
(4) Paragraph 2c: Class II Training of Medical Officers at Reed College should be continued if the Services can supply sufficient Medical officers to justify the program. The Services have been asked formally to support this program and an early reply is expected.

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(5) Paragraph 2d: Recommend Dr. Payne's project be supported with FY 54 funds. This office will maintain close contact with his group for the purpose of assisting in overcoming their experimental problems.



LOUIS E. BROWNING
Lt. Colonel MC
Surgeon

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