

**SUMMARY SHEET**

(DA Memo 340-15)

| TO     |       |     |                                  | FOR     |              | FROM                            |           |
|--------|-------|-----|----------------------------------|---------|--------------|---------------------------------|-----------|
| DCSLOG | COA   | CLL |                                  | 1, 2, 3 | APPROVAL     | AGENCY                          | TELEPHONE |
| DCSOPS | ACSI  | 1   | CHIEF OF STAFF                   | 3       | SIGNATURE    | OCRD                            | 43343     |
| DCSPER | AC3RC | 2   | <del>Asst 3 OF A (R&amp;D)</del> |         | COORDINATION | GRADE & NAME OF CONTACT OFFICER |           |
| CRD    | TAG   | 3   | SECRETARY OF THE ARMY            |         |              | Lt Col J. C. McWhorter          |           |

|                |   |             |
|----------------|---|-------------|
| FILE REFERENCE | SUBJECT   | DATE        |
| CRD/N          | Use of Volunteers in Research Involving Nuclear Radiation | 22 MAY 1963 |

IMPLICATIONS (The implications checked below are involved in this action, are discussed below or in a separate inclosure, and have been considered in the final recommendation.)

- CONTROL PROGRAM       MANPOWER       BUDGET       LEGAL  
 CONGRESSIONAL       PUBLIC RELATIONS       MORALE       SECURITY       NONE

**PURPOSE**

To obtain approval of the **Secretary of the Army** to use volunteer subjects in research involving nuclear radiation.

**DISCUSSION**

1. Army Regulations 70-25 require the approval of the Secretary of the Army for research where volunteer subjects will be deliberately exposed to nuclear radiation. These regulations further provide that the Chief of Research and Development will submit the research proposal with the review and recommendations of The Surgeon General to the Secretary of the Army for approval.

2. The **U.S. Army Medical Research and Nutrition Laboratory (USMRNL)** has requested approval for surveys to assess the state of nutrition in military personnel by standard procedures and to contribute to the nutrition research mission of that laboratory (Incl 1). These surveys were requested by The Surgeon General to assist in executing the Army Medical Service responsibilities prescribed in Army Regulations 40-564 (Incl 3). Included in the survey protocol (Incl to 2d Ind to Incl 3) is the determination of total body water utilizing timed, measured urine specimens after administration of **tritiated water containing one millicurie of tritium**. The use of volunteer subjects in conjunction with the tritiated water studies is the only portion of the investigation requiring Secretary of the Army approval.

3. The proposed initial survey will be conducted at Fort Carson, Colorado, by the U.S. Army Medical Research and Nutrition Laboratory in June 1963. Other proposed surveys will be conducted under various geographic and climatic conditions throughout CONUS over a five year period. Each survey will conform to the attached protocol. For each survey, 112 enlisted volunteers will drink a small quantity of ordinary water containing one millicurie of tritiated water. The total dose of radiation received by each volunteer will be approximately 125 to 130 millirems, with approximately 42 millirems being received during the first week. This method of total body water measurement is the simplest and most accurate method available. It is a standard accepted medical diagnostic procedure. The project officer will be Lt Col John E. Canham, MC, USMRNL, with medical assistance from Lt Col James E. Hansen, MC, Major William T. Nunes, MC, and Captain John R. Handy, MC, all of USMRNL.

Total dose received is less than  
 from ordinary dental X-ray. (Agreement  
 signed by soldier so-states.

(Signed) *[Signature]* Finn Larsen

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