

ORIGINAL

ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE
DEFENSE ATOMIC SUPPORT AGENCY
BETHESDA, MARYLAND 20014

AFRRI STAFF MEMORANDUM
NUMBER 30-1

17 Oct 1967

DNA1.941006.076b

MEDICAL

Industrial Health Program

1. Purpose. To publish policy, responsibilities and procedures for the conduct of the AFRRI Industrial Health Program.
2. Program Objectives. To serve the best interests of AFRRI employees and of the Government by increasing and/or maintaining employee productivity through establishment and maintenance of methods and standards which make it possible for employees to maintain optimum health conditions in their total work environment.
3. Responsibility. Overall responsibility for the Industrial Health Program is vested in the Industrial Medical Officer.
 - a. Close and sustained collaboration shall be maintained between the Industrial Medical Officer, the Industrial Safety Officer, and the Head Radiological Safety Department.
 - b. The services of a professional Industrial Hygienist shall be requested, when required, by the Industrial Medical Officer. An industrial hygiene survey, when requested, shall be conducted under the joint supervision of the Industrial Medical Officer and the Industrial Safety Officer with cooperation, as required, from the Head, Radiological Safety Department.
4. General Preventive Medicine Program.
 - a. The basic philosophy for establishing the minimal required physical examination standards is stated clearly in the following quotation from Armstrong, Aero-space Medicine. "The nature of the examination should be tailored exactly to the nature of the hazard to which the particular individual is exposed."
 - b. The general outline of the preventive medicine program is as follows:
 - (1) Radiological Health Program

This Memorandum supersedes AFRRI Directive Number 23-11, 31 May 1966, 23-11A, 7 June 1966, 23-11B, 9 June 1966 and 23-11C, 29 November 1966.

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- (2) Occupational Health Program
- (3) Special Immunization Program
- (4) Sanitation Program
- (5) Records

5. The Radiological Health Program.

a. The information available from the AFRRI Radiological Safety Department makes possible the preparation of a radiological hazard evaluation for each AFRRI employee.

b. Lists three different medical-radiological hazards groups, and defines each group specifically. (This information is contained in Inclosure 1.)

c. Lists the minimally required initial, periodic and final examination required for each radiological hazard group. (Inclosure 2.)

6. The Occupational Health Program. Periodically, when deemed advisable by the Industrial Safety Officer and/or the Industrial Medical Officer and/or higher authority, the assistance of a qualified industrial hygienist to inspect the AFRRI facilities will be requested. Information and recommendations for such inspections will be utilized to keep current an on-going industrial health program.

7. Special Immunization Program.

a. In order to assure complete necessary immunization, employees are identified in the preventive medicine files and their cards are reviewed semi-annually. These cards contain the current immunization records for that individual. All animal bites, puncture wounds, and lacerations will be sent to staff sick call for tetanus booster and emergency treatment.

b.. Rabies prophylaxis is available on a voluntary basis (AFRRI Directive Number 23-9).

8. The Sanitation Program. Since food service facilities are limited at AFRRI, a comprehensive sanitation program is not required. However, the services of the NNMC Epidemiology and Sanitation capability will be called upon as required to inspect and make recommendations concerning the vending machine and animal feed storage areas.

9. Records.

a. Special health records, civilian and military, are maintained by the AFRRI. Initiation of these records for newly assigned personnel is the responsibility of the servicing civilian personnel office. Maintenance of these records is the responsibility of the Executive Officer's office under the professional supervision of the Deputy Director, O and A. These records include recordings of:

- (1) All complete blood counts.
- (2) All special eye examinations
- (3) An immunization record review
- (4) All whole body counts

b. In addition to the above records, copies of the general physical examination which do not exist in the AFRRI's records, are obtainable from the Out Patient Department, USNH. Copies of the chest X-rays which exist at the examining facility only, are available from that facility. The records of exposure to ionizing radiation are maintained by the Radiological Safety Department, AFRRI. Provisions have been made for the Industrial Medical Officer at the AFRRI to obtain physical examination records and X-rays from the Out Patient Department, USNH, Bethesda, Maryland.

c. For each AFRRI employee, a single 5x7 card is prepared containing identifying information and spaces for recording all dates necessary to determine the individual's minimally required examination status. Maintenance of each individual's status within requirements for minimally required examinations is the responsibility of the Servicing, Civilian Personnel Office based upon professional advise of the Industrial Medical Officer. With specific regard to the Radiological Health Program, each card will be color coded to facilitate recognition.

10. Facilities and Means for Examination.

a. The USNH, NNMC, Out Patient Department Staff Clinic will provide the facilities and personnel for obtaining physical examinations and chest X-rays for civilian and military personnel.

b. Special eye examinations are conducted by the Ophthalmology Department, USNH, Bethesda, Maryland, upon request by the Industrial Medical Officer.

c. The Radiological Exposure Evaluation Laboratory (REEL) continues to provide whole body counts.

d. Complete blood counts are provided for by U.S. Naval Medical School, NNMC

e. Apparatus and technical competence to perform urinalysis for ^3H , ^{14}C and other low energy β emitters available from the Radiological Safety Department.

11. Definitions of the Exact Nature of the Examinations.

a. General Physical examinations - history, physical examinations, routine urinalysis for sugar and protein, STS, chest X-ray.

b. Annual chest X-ray - 14x17 inch films will be required for those individuals in Group 3.

c. Whole body count - REEL routine.

d. Complete blood count - at least two different determinations 7 to 10 days apart.

e. Special eye examination - includes ophthalmoscopic and slit lamp examinations.

f. Urine radio-chemistry - refers specifically to urine analysis, for ^3H , ^{14}C and other low energy β emitters.

12. Interpretation of Examination Results. Interpretation of results of all tests and examinations will be accomplished by the Industrial Medical Officer with such consultation as he deems necessary. Clerical support for this purpose will be provided by the Executive Officer's Office.

13. Custody and Protection of Information.

a. All information dealing with the health of the individual from the NNMC's health services will be recorded in the Industrial Medical Officer card system by the Servicing Civilian Personnel Office and then will be filed in the employee's health jacket maintained by the NNMC OPD, in order that a complete history will be readily available in the OPD medical files. Results of whole body counts and/or urine radiochemistries will be made available to the individual employee concerned upon request.

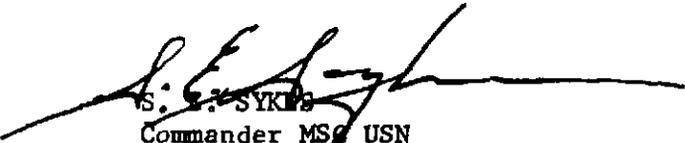
b. The medical records shall be regarded as confidential medical information. An interpretation of findings will be given to management officials when and as desirable for more effective utilization of manpower

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as related to the employee's adjustment to the job, placement, and maintenance of individual and group health. (DDA)

OFFICIAL:

HUGH B. MITCHELL
Colonel, USAF MC
Director



S. E. SYKES
Commander MSG USN
Executive Officer

2 Incl

1. Radiological Hazard
Groups Defined
2. Specific Examination
Requirements

RADIOLOGICAL HAZARD GROUPS DEFINED

Group Number	Color Code	Description	Group Definition	Estimated Time In Hazard Area	Anticipated Or Documented Exposure
1	Blue	Minimal Hazard	Applies to personnel who are expected to spend less than 1% of any normal working year * in any greater-than-area-background Radiation Hazard.	Less than 20 hrs/yr	(Background)** Less than 0.200 rem/yr
2	Green	Potentially Moderate Hazard	Applies to personnel who are expected to spend >1% but <10% of any normal working year * in any greater-than-area-background Radiation Hazard and/or to personnel who receive more than Background** radiation exposure but less than 0.5 rem/yr on film badge.	>20 hrs/yr <200 hrs/yr	>0.200 rem/yr <0.500 rem/yr
3	Yellow	Moderate Hazard	Applies to personnel who are expected to spend >10% of any normal working year * in any greater-than-area-background Radiation Hazard and/or to personnel who receive >0.5 rem/yr on film badge.		>0.500 rem/yr

* Normal working yr=50 wks/yr x 40 hrs/wk - 2000 hrs/yr

** Background in normal non-radiation areas as measured by the AFRRRI personnel film badge is equal to approximately 0.2 rem/yr

Each group may have individuals tagged for special hazards such as high neutron exposure risk, tritium hazard, I4C exposure - using an additional red color code with an appropriate initial to indicate the hazard.

SPECIFIC EXAM REQUIREMENTS
LISTED BY RADIOLOGICAL HAZARD GROUPS

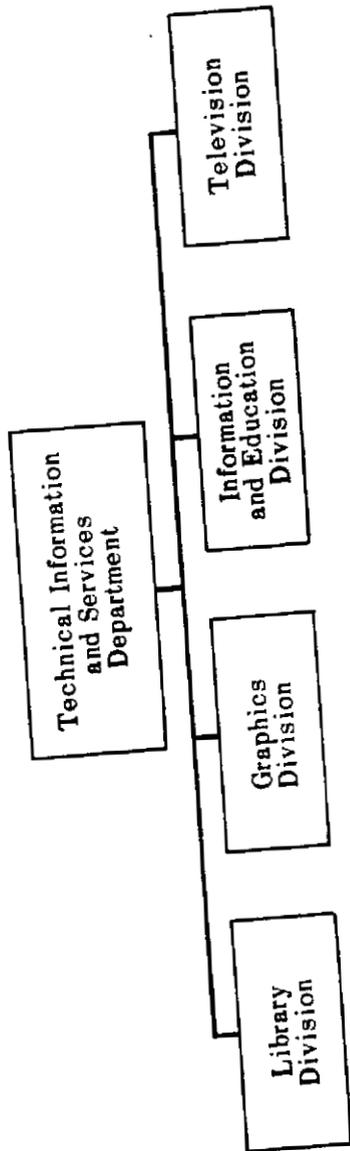
Radiation Exposure Hazard Group #

<u>1</u>	<u>2</u>	<u>3</u>	<u>Examination - initial and at time of separation from AFRI</u>
Yes	Yes	Yes	General Physical
Yes	Yes	Yes	Chest-X Ray
Yes	Yes	Yes	Whole body count
No	Yes	Yes	Complete blood count
			<u>Follow up examinations</u>
No	No	12 mo	Whole body count
No	No	12 mo	Complete blood count
<u>Special hazards sub group</u>			<u>Special examination</u>
Tritium			Urine radio-chemical - initial & every 6 mo. - prn when indicated by RAS
14C			Breath or urine radio chemical prn
Neutron exposure			Special eye exam. initial, every 24 mo., final
<u>Special Hazard sub group</u>			<u>Personnel</u>
Tritium			RAS, PSAD, other individuals as indicated by RAS
Neutrons			RAS, RSRP, RSAD, other individuals as indicated by RAS
14C			as indicated by RAS

Incl 2

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ORGANIZATIONAL CHART - TECHNICAL INFORMATION AND SERVICES DEPARTMENT



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(Change 2)

8 May 1967

ORGANIZATION

AFRRI Organization

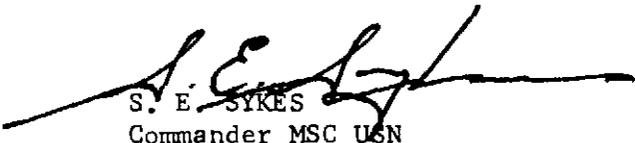
AFRRI Staff Memorandum 10-1, 15 March 1967 is changed as follows:

Page 5, Inclosure 1, Organizational Chart, Technical Information and Services Department (Superseded).

Organizational Chart, Page 5, Inclosure 1, 8 May 1967, Organizational Chart, Technical Information and Services Department is added. (ADM)

OFFICIAL:

J. S. BURKLE
Captain MC USN
Director



S. E. SYKES
Commander MSC USN
Executive Officer

1 Incl
Org Chart

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