

NAVAL MEDICAL RESEARCH INSTITUTE
NATIONAL NAVAL MEDICAL CENTER
BETHESDA 14 MARYLAND

Declassified
NND project # 22130
By HRM/RG/NARA date 7/31/02

CONFIDENTIAL

RHD/

SAR

14

To:

Director, Radiation Laboratory
San Francisco Naval Shipyard

Subject:

Plans for Biologic Division of Radiation Laboratory

1. In accordance with our verbal understanding, plans for the Biologic Division of the Radiation Laboratory are submitted herewith. These plans call for the utilization of the entire 4th floor, mezzanine and roof space for laboratories and animal quarters. The total working space, excluding animal quarters, is about 5540 square feet. This has been tentatively divided into about 28 rooms to accommodate work in Pathology, Microbiology, Pharmacology and Toxicology, Biochemistry and Radiochemistry. How the rooms will be initially divided up will depend to some extent upon the available personnel. It will be noted that the plan submitted will overlay the preliminary layout as shown in BP 1259.
2. The roof animal house plan utilizes a space about 50' x 80' and will be satisfactory for both large and small animals. Only a plan view is furnished, detail will be worked out later.
3. It is requested that the building selected for temporary animal quarters be completed as soon as practicable. This can be carried out along the lines discussed with Mrs. Skow and Morton. A corridor should be provided for access to the pens. The deck should be cement and the runs about 30 feet long. An additional building should be set along side to serve for feed storage and animal work such as inoculation, bleeding, examination, etc. Dr. Hine plans to report to the Laboratory about 15 May.
4. I plan to visit the Laboratory during the week beginning 26 May.

R. H. Draeger
Captain (MC) U. S. Navy

Enc 2

(2) Plans for Biologic division Radiation Laboratory
(1) Plans for roof animal quarters of Radiation Laboratory

Part A PHYSICAL FACILITIES.

The physical facilities for the Radiological Laboratory now in use and under development are located in the former yard dispensary known as building 506. This building is of temporary wood frame construction, but its former use as a dispensary, *its* spaciousness and general floor plan make it an ideal plant to accommodate the proposed personnel and laboratory equipment as outlined in this report.

It is quite obvious that further expansion of the general Radiological program beyond that outlined herein would require a somewhat larger and more permanent building.

The present plant and facilities are considered ideal for at least a six month development program. After this period a more precise formulation of the future laboratory program can be made and expansion should it become necessary *and* guided accordingly.

An outline of present facilities in building 506 are given below under three divisions: (A) Laboratory section; (B) Electronic Instrument Repair section; and (C) Monitoring and general Administration section.

A. Laboratory Section (2147 square feet total floor area - consists of 16-rooms).

1. Main Chemical Laboratory.

- a. 402 square feet floor space.
- b. 35 linear feet laboratory bench space.
- c. 28 sq. ft. of hood space.
- d. Adequate shelving and storage.
- e. 110 volt AC outlets, hot and cold water, gas, steam may be tapped when needed.
- f. 20,000 watts AC provided for muffles, stills and ovens.

2. Small Chemical Laboratory.

- a. 190 sq. feet floor space.
- b. 25 linear feet laboratory bench space.
- c. Adequate shelving for storage.
- d. 110-Volt AC, gas, hot and cold water, steam available when needed.
- e. Exhaust fan.
- f. 20,000 watts AC provided for electric still, etc.

3. Photographic darkroom.

- a. 60 sq. feet floor space.
- b. 18 linear feet of bench space.
- c. Automatic temperature controlled developing tank.
- d. Sink, storage space, dark lights and all necessary facilities for dark room needs.

4. Densitometer room.

- a. 148 sq. feet floor space.
- b. 110 and 220 volt AC outlets.
- c. Suitable for installation of densitometer and film badge processing.

5. Glass-washing room.

- a. 150 sq. feet floor space.
- b. 14 linear feet of bench space.

5.
 - c. Adequate shelving and storage.
 - d. 110 volts AC and hot and cold water. Steam may be tapped when needed.
6. Two general counting rooms.
 - a. 264 sq. feet total floor area.
 - b. 110 volt AC outlet.
 - c. Hot and cold water.
 - d. Instrument tables to be provided as needed.
7. Special Alpha counting room.
 - a. 132 sq. feet floor space.
 - b. 110 volt AC outlets.
 - c. Hot and cold water.
 - d. Instrument tables to be provided as needed.
8. Electro-physical and Surface Chemistry.
 - a. 132 sq. feet floor space.
 - b. 110 volt AC outlets.
 - c. Hot and cold water.
 - d. Laboratory benches to be built according to requirements.
9. Two spare rooms for Laboratory Expansion.
 - a. Each 132 sq. ft. floor space.
 - b. 110 volt AC outlets.
 - c. Hot and cold water.
10. Laboratory Administration Office.
 - a. 132 sq. feet floor space.
 - b. Steel safe.
 - c. Fire proof locked file cabinets.
 - d. Two office desks.
11. Laboratory Personnel Office.

11. a. 132 sq. feet floor space.
b. Five office desks.
c. Book cases.
d. File cabinets.
12. Laboratory Chemical Store room.
a. 210 sq. feet floor space.
b. Shelving to overhead on all bulkhead provides ample storage space.
13. Laboratory Instrument Storeroom.
a. 105 sq. feet floor space.
b. Shelving to overhead on all bulkheads provides ample storage space.
14. Radio-active sample storeroom.
a. 90 sq. feet floor space.
b. Shelves to overhead ~~above~~ along one bulkhead.
c. Suitable storage place for small samples.
d. Definitely not adequate for storing sample pipe sections.
- B. Electronic Instrument Repair Section. (1450 sq. feet consisting of one room).
a. 1450 sq. feet floor area.
b. 74 linear feet of bench space.
c. 110 volt AC outlets installed at benches.
d. Adequate shelving and storage.
e. One-half of this room is now used for instrument calibration and is available for expansion.
- C. Monitoring and General Administrative Section. (1731 sq. feet - consisting of 10-rooms).
1. Record Office.
a. 225 sq. feet floor space.
b. Three desks, locked steel file cabinets.
c. Shelving for forms and office supplies,

XXXXXXXXXXXXXXXXXXXX

- C. 2. Senior Monitors Office.
- a. 150 sq. feet floor space.
 - b. Two desks.
3. Bureau Representative Office.
- a. 150 sq. feet floor space.
 - b. One desk.
4. Monitors Ready Room.
- a. 351 sq. feet floor space.
 - b. Two desks and conference table.
 - c. Shelving and cabinet adequate for work clothing and report form storage.
5. Ship's Clearance Board Office.
- a. 285 sq. feet floor space.
 - b. Three desks and record file.
 - c. As clearance board activities lessen this room will be available as a general conference room.
6. Duty watch berthing room.
- a. 135 sq. feet.
 - b. Two beds and accessories.
7. Monitors instrument issue Room.
- a. 180 sq. feet.
 - b. 33 linear feet bench space.
 - c. Adequate closets, cabinets and drawers for storage.
 - d. 110 volt AC outlets and suitable facilities for minor instrument checking and inspection.
8. General Storage Room.
- a. 105 sq. feet.
 - b. Contains no shelving at present.

C. 9. Personnel Decontamination Room.

- a. 150 sq. feet floor space.
- b. Two stall showers.
- c. Four wash basins.
- d. Benches and clothing hangers.

10. General Facilities.

- a. Janitors service room.
- b. Toilet facilities for men and women.
- c. Large lobby waiting room.