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Form #14 520

INCOMING ROUTE SHEET
12ND-MI 745L (REV. 7-50)

NUMBER
010139

NAVAL RADIOLOGICAL DEFENSE LABORATORY
SAN FRANCISCO NAVAL SHIPYARD

CONFIDENTIAL
Reg #3067258

OUR FILE NUMBER A1-1	THEIR FILE NUMBER C-S(99)-(0)-(1)(348)	SERIAL NUMBER 348-080	DATE RECEIVED 2 Nov 1950
FROM BuShips			DATE 30 Oct 1950
TO			

NRDL
SUBJECT

NRDL laboratory facility proposal

ENCLOSURES (1) copy of RDB CAE Conf. Memo, file AE 22/4 to Chairman RDB dtd 13 Oct 1950 covering CAE action on the subject proposal	NO. COPIES RECEIVED 2	NO. ENCL. RECEIVED 1
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SECTION CODE	INITIALED		REMARKS
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1/31/02

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ROUTE SHEET NUMBER
010139



DEPARTMENT OF THE NAVY
BUREAU OF SHIPS
WASHINGTON 25, D. C.

A1-1
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010137

IN REPLY REFER TO

C-S(99)-(0)2(1)(348)
Serial 348-080

CONFIDENTIAL

From: Chief, Bureau of Ships
To: Commanding Officer, U. S. Naval Radiological
Defense Laboratory, San Francisco 24, California

20 OCT 1950

Subj: NRDL laboratory facility proposal

Encl: (1) Copy of RDB CAE Conf. Memo file AE 22/4
to Chairman, RDB dtd 13 October 1950
covering CAE action on the subject proposal

1. Enclosure (1) is transmitted herewith for information
and retention.

R. A. Preston

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enclosure,~~

R. A. Preston
Director

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

306-7658

CONFIDENTIAL



DEPARTMENT OF THE NAVY
BUREAU OF SHIPS
WASHINGTON 25, D. C.

010137

IN REPLY REFER TO

C-S(99)-(0)-(1)(348)
Serial 348-030

CONFIDENTIAL

30 OCT 1950

From: Chief, Bureau of Ships
To: Commanding Officer, U. S. Naval Radiological
Defense Laboratory, San Francisco 24, California

Subj: NRDL laboratory facility proposal

Encl: (1) Copy of RDB CAE Conf. Memo file AE 22/4
to Chairman, RDB dtd 13 October 1950
covering CAE action on the subject proposal

1. Enclosure (1) is transmitted herewith for information
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R. G. Preston
By Direction

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NND project # 22130
By HRM/RG/NARA date 1/31/02

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010130

RESEARCH AND DEVELOPMENT BOARD
COMMITTEE ON ATOMIC ENERGY
Washington 25, D. C.

AE 22/4

13 October 1950

MEMORANDUM FOR CHAIRMAN, RDB

SUBJECT: Naval Radiological Defense Laboratory Facility Proposal

ATTACHED: AE 22/3.2 -"Action Sheet" on Modified Proposal N 54-2

At its seventeenth meeting held on 12 October 1950, the CAE has recommended approval, by unanimous vote, of a new facility for the Naval Radiological Defense Laboratory at San Francisco, California, in the amount of \$4,700,000 in accordance with the attached action sheet.

FOR THE COMMITTEE:

DAVID Z. BECKLER
Acting Executive Director

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

AE 22/4

COPY

ENCL (1) TO BU-SHIPS SER. 348-080

RESEARCH AND DEVELOPMENT BOARD
COMMITTEE ON ATOMIC ENERGY
WASHINGTON 25, D. C.

"ACTION SHEET"

Modified Proposal N 54/2
Proposal for Research and Development
Primary Facility for U. S. Naval Radiological
Defense Laboratory
San Francisco, Calif.
\$4,700,000
Sponsor: Dept. of Navy, Bureau of Ships
August 1950

1. SUMMARY

1.1 The Basic Proposal for \$7.5 million submitted by the Department of the Navy was reduced to \$4.7 million by the Committee on Atomic Energy and approved as follows:

- (a) Approval of \$112,000 for the preparation of site.
- (b) Approval of \$99,200 for the installation of utilities to site.
- (c) Approval of \$3,650,000 for the construction of a building (146,000 sq.ft. at \$25.00) to provide a permanent facility capable of housing special heavy apparatus such as a particle accelerator or a powerful cobalt irradiation source and to permit safe accomplishment of work involving handling of large amounts of high intensity radioactive materials.
- (d) Approval of \$386,120 as a 10% contingency item on construction of building and installation of utilities.
- (e) Approval of \$254,840 as an Architectural and Engineering fee at 6%.
- (f) Approval of \$197,840 for collateral equipment, including laboratory and office furniture, instruments and machinery.

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AE 22/3.2

1.2 The reduction to \$4.7 million was accomplished primarily by limiting the floor space of the building described under (c) above to 146,000 sq. ft. instead of the requested 238,680 sq.ft. This additional 146,000 sq.ft. combined with the space available under the cognizance of the Laboratory upon completion of the approved conversion and expansion of Bldg. 351 will provide the space required to meet the current program at the Laboratory. Reductions in contingency funds and collateral equipment were pro-rated in accordance with the reduced cost of the building.

1.3 The facilities will be built in accordance with standards established by the Department of Defense and the AEC to provide a permanent facility to carry on basic and applied research and development in connection with the radiological safety program of the Armed Forces. It is to be understood, however, that in case of any questions of priority of assignment of ferro-tantalum-columbium alloys, this facility has no special priority.

2. FINDINGS

2.1 The proposal has been reviewed in light of RDB 137/2 and RDB 169/33 and is considered to comply with the requirements therein.

2.2 The purpose of the proposal is to provide permanent and adequate facilities at NRDL to conduct the current and projected research and development program in the field of radiological safety.

2.3 Prior to FY 1951 the planned NRDL continuing program required a total of 350 military and civilian personnel with an annual research and development budget of about \$1.2 million. With the impact of weapon tests requirements, the Korean situation, and unfavorable international

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developments, the program requirements were expanded both in scope and rate of performance. The FY 1951 basic program was about the same as that of FY 1950, and was further increased to a total of about \$2,200,000 by supplemental funds to expedite developments and emphasize selected portions. It is expected that this may be further augmented to a final total of about \$2,900,000 in this fiscal year. Because of the breadth of Mission the program requirements are expected to continue to exceed those of FY 1950 for several years and to approximate the FY 1951 requirements during FY 1952.

*540,000
relates to
reach NRDL
this is only
for construction
not research
to non DOD
activities
GHC
11/30*

2.4 On 22 June 1950, the Committee approved \$1.0 million for the "Conversion and Extension of Building 351 to NRDL". \$860,000 has been appropriated out of first supplemental FY 51 public works funds, and will be used to convert and extend Building 351. Upon completion of this planned conversion and expansion, a total of approximately 92,000 sq.ft. of space will be available and under the cognizance of the laboratory. This will still fall far short of the 238,000 sq. ft. of working space required to accommodate the technical personnel required for the prosecution of the currently planned program.

*Wk at NRDL
Aug 15 paper
on this issue
at held at
12/10
etc*

2.5 Many high priority projects are being delayed by lack of adequate facilities. The Laboratory work is now being accomplished in fourteen separate facilities and areas widely dispersed throughout the Shipyard. This situation seriously reduces efficiency of management and operation, greatly hampers supervision and collaboration, complicates communications and transportation, and renders the maintenance of proper security expensive and doubtful. Further, since the majority of the

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AE 22/3.2

buildings are of temporary wooden construction, the fire hazard is great, health protection is insecure and recurring maintenance costs are high.

2.6 The probable program requirements at NRDL after FY 1952 cannot be predicted sufficiently to warrant determination at present of the ultimate permanent facilities requirements. One reason for this is that other installations will be required for work of generally similar character. The facility proposal as modified is not sufficient to permit the optimum arrangement with consolidation of all currently required personnel in a single building. The additional area contemplated by the proposal is equivalent to the space required to house only the personnel actually employed in the Laboratory at the present time. The possible continued separation of activities involved would continue to reduce efficiency, but is a workable solution if continued occupation of shipyard, industrial and other working areas can be permitted indefinitely. The necessity for extension of the modified facility should be reconsidered if the present program requirements extend beyond FY 1952.

2.7 No adequate facilities now exist in or are planned for the Department of Defense or Atomic Energy Commission to conduct this radiological safety research and development program.

2.8 Coordination has been effected by the Committee on Atomic Energy.

3. CONCLUSIONS

3.1 The proposal is justified to meet the needs of the current and

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projected research and development program in the field of radio-logical defense.

3.2 No suitable facilities now exist or are contemplated to be provided by the Department of Defense.

3.3 The proposed facility does not duplicate any existing or proposed facility of the Atomic Energy Commission.

4. RECOMMENDATIONS

4.1 The Committee on Atomic Energy recommends approval of Modified Proposal N 54-2 for a total of \$4.7 million authorization and appropriation. The Committee will entertain at a future date a proposal for expansion of this facility if future program requirements so indicate.

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