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Title: NRAL MINDY NEW CONSTRUCTION AND IMPROVEMENT PROGRAM, SUMMITAR
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U. S. NAVAL RADILOCAL DEFENSE LABORATORY
SAN FRANCISCO 24, CALIFORNIA

3-2468
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12 JUN 1953

From: Commanding Officer, U. S. Naval Radiological Defense Laboratory
To: Chief, Bureau of Ships (Code 770)
Via: (1) Commander, San Francisco Naval Shipyard ←
 (2) Twelfth Naval District Public Works Officer

Subj: NRDL Minor New Construction and Improvement Program, submittal of

Ref: (a) NAVSHIPS 250-770 Revised 15 Mar 1953

Encl: (1) Integrated Priority List for Items in the NRDL "C", "M",
 and "P" Facility Programs
 (2) List of NRDL Minor New Construction and Improvement Projects
 (3) Description and Justification for the NRDL "C" Program Project

1. Enclosures (1) through (3) are submitted in accordance with reference (a).

J. L. BIRD
Director

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ESTIMATE FOR SPECIAL ALLOTMENT
APPROPRIATION: SHIPS AND FACILITIES (NAVY)
NAVDOCKS 167 REV. 3-47

U. S. Naval Radiological Defense Laboratory
PLACE San Francisco 24, California

DATE 29 May 1953

ORDER OF IMPORTANCE: NUMBER PURPOSE	Category A	PROJECT NUMBER CL-54
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Alterations and Improvements to Building 365

TOTAL ESTIMATED COST \$ 2700.00

FUNDS REQUESTED NOW: AMOUNT \$ 2700.00

DESCRIPTION OF PROJECT AND COMMENT, INCLUDING STATEMENT OF DEGREE OF URGENCY AND NECESSITY:

Attachment (1) NRDL Scope Dwg S-52-451
Attachment (2) NRDL Detailed Cost Estimate

1. This project consists of minor construction alterations, and purchase and installation of equipment as indicated on attachment (1) to provide a consolidated radiological safety clothing issue and personnel decontamination center.

2. A survey made in conjunction with our Radiological Safety Program has shown that, to adequately protect the health of Laboratory personnel engaged in decontamination work or in the handling of hot waste, improvements must be made in our facilities to provide a personnel decontamination center and change house for Laboratory-wide usage. The Laboratory's present personnel decontamination facilities (Building 365) were designed to serve only personnel working in Building 364, the "Hot Cell". However, with slight alterations and improvements, Building 365 can be made to serve also personnel working in other Laboratory Sections or Units. The Laboratory is having progressively more and more decontamination work to do because of the greater quantity of material being returned from test sites, as well as the gradual expansion of its Radiological Research. Therefore, the need for an adequate personnel decontamination center and change house is of vital importance.

3. The accomplishment of the proposed alterations and improvements to Building 365 will:

(a) Provide a center for all Laboratory personnel to "dress-out" and to decontaminate themselves as necessary.

(CONTINUE ON ANOTHER SHEET IF NECESSARY)

THIS SPACE RESERVED FOR BUREAU MEMORANDUM

PROJECT MANAGER _____

BUREAU ACTION _____

ESTIMATES FOR SPECIAL ALLOCATION
APPROPRIATION: SHIPS AND FACILITIES (NAVY)
NavDocks 167 Rev. 3-47

U. S. Naval Radiological Defense Laboratory
Place San Francisco 24, California

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Order of Importance: Number Category A
Purpose

Project Number CL-54

Alterations and Improvements to Building 365

but in addition, serve the personnel working in other Laboratory Buildings, on the Barge (YFNX-16), at the hot waste disposal unit located at the rear of Building 364, the personnel decontaminating vehicles from the test site, the Laboratory's decontamination crews and any others of the Laboratory who might "dress-out" to work in a "hot" area.

7. The estimated cost of this proposed project is \$2700. A detailed cost estimate breakdown accompanies this description and justification as attachment (2).

8. The advantages of immediate action on this proposed project are the implementation and accomplishment of the mission of the Radiological Safety Branch of this Laboratory, and at the same time to effect a minimization of expensive research personnel time spent in "dressing-out" and in decontaminating themselves.

9. It is proposed that the project be accomplished by Station and/or Shipyard labor as indicated by the detailed cost estimate, attachment (2).

10. In summarization, the proposed alterations and improvements are essential to effective safe operation of the Laboratory and are complete for the purpose for which proposed. This Station does not have adequate facilities of this type for safety of personnel and such a facility is a first-priority need for any activity handling radioactive material. A consolidated centrally located safety clothing storage and personnel decontamination center will save time of "dress-out" before going out on a job by orderly sequence of events. Therefore, more time will be spent on the job by the Laboratory personnel.

11. This project is essential to the interests of National Defense, and will not conflict with any project carried in the Master Shore Station Development program.

ESTIMATE FOR SPECIAL ALLOCATION
APPROPRIATION: SHIPS AND FACILITIES (NAVY)
NavDocks 167 Rev. 3-47

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Order of Importance: Number Category A
Purpose

Project Number CL-54

Alterations and Improvements to Building 365

- (b) Will provide a clothing and issue facility for people working in hazardous areas.
- (c) Will provide closer control over clothing and equipment worn in contaminated areas to prevent the spread of dangerous radioactive materials.
- (d) Will forestall any serious consequences in the event of radiological accidents, such as "spills".
- (e) By serving more of the Laboratory's employees, this facility will provide greater health protection for the Laboratory's personnel and will aid in protecting the Government from and/or in a medical-legal situation.

4. The purpose of the proposed alterations and improvements is:

- (a) To provide a clothing storage and issue facility.
- (b) To provide a center for all Laboratory personnel to "dress-out" and decontaminate themselves if necessary.
- (c) To forestall any serious consequences in case of a radiological accident.
- (d) To provide more effective health protection for the Laboratory personnel and more effectively protect the Government from and/or in a medical-legal situation.
- (e) To comply with instructions in Chapter 6 of NAVMED P-1325 entitled "Radiological Safety Regulations".

5. In case the project is not authorized, considerable time of high level research personnel will continue to be wasted at sizeable additional expense to the Government. The proposed alterations and improvements to Building 365 have been carefully screened and are minimum in scope if Laboratory-wide personnel decontamination procedures are to be effective for the purpose intended. It is anticipated that Buildings 364, 365 and the "Hot Waste Disposal Unit" facilities will continue to be occupied and used by the Laboratory for several years after the completion of Building 365 and will continue to be utilized to their fullest extent.

6. The Laboratory has a positive definite need for a personnel decontamination center and change house for Laboratory-wide usage. Building 365 was designed for use in connection with Building 364 (Hot Cell). The proposed alterations and improvements are put forward and suggested in order to increase the capacity of Building 365 and, in order to make the facility better serve not only the personnel working in Building 364,

INTEGRATED PRIORITY LIST FOR ITEMS IN THE NRDL "C", "M" & "P" FACILITY PROGRAMS

Category A

Priority Number	NRDL Item Number	NRDL Code	Description	Estimated Cost
1	M3-53	3-100	Consolidation and Rearrangement Program Requisite for Release of NRDL Space in Building 520 to SPS	\$ 6000.00
2	M4-53 (Part A)	3-100	Move Into and Occupancy of Building 816	3750.00
3	P120-53	3-730	1-Vibrating Reed Electrometer	1650.00
4	P124-53	3-210	1-Polaroid ID Camera	1035.00
5	P169-53	3-930	1-Scintillation Spectrometer	9350.00
6	P2-54	3-730	1-Head Cutter	210.00
7	P99-53	3-220	1-Duplicating Machine	841.00
8	P163-53	3-940	1-Mass Spectrometer Type Leak Detector	6100.00
9	P127-53	3-940	1-Photometer with Search Unit	800.00
10	P189-53	3-930	1-Precision Proportional Counters	4400.00
11	P115-53	3-220	2-Electronic Flash Assemblies @ \$108.00	216.00
12				
13				
14	P170-53	3-940	1-Vacuum Tube Voltmeter	215.00
15	P118-53	3-730	1-Densitometer	935.00
16	P133-53	3-940	1-Micrometer Slide Comparator	1235.00
17	P177-53	3-940	6-Amplifiers, Wide Band @ \$232.00	1385.00
18	P191-53	3-930	1-Amplifier and Null Detector	627.00
19	P3-54	3-240	1-Microammeter (Multi-range)	230.00
20	P7-54	3-240	1-Electrometer	220.00
21	P122-53	3-730	1-Gloved Box	440.00

Category A (Continued)

Priority Number	MRDL Item Number	MRDL Code	Description	Estimated Cost
22	P150-53	3-240	1-AC Dynamometer Voltmeter	\$ 232.00
23	P174-53	3-930	1-Low Frequency Function Generator	495.00
24	P176-53	3-940	4-Amplifiers, Wide Band @ \$279.00	1116.00
25	P171-53	3-940	1-Vacuum Tube Voltmeter	220.00
26	P10-52	3-240	1-Plate, Surface, with stand	1250.00
27	P192-53	3-930	1-Decade Voltage Divider	115.00
28	P14-52	3-240	1-Machine, Milling	14,000.00
29	P193-53	3-730	1-Lead Shielded Glove Box	3630.00
30	P15-52	3-240	1-Lathe, Sliding Bed-Gap	18,300.00
31	P16-52	3-240	1-Lathe, Toolmakers, w/accessories	14,300.00
32	P123-53	3-730	2-Area Health Monitors @ \$3190.00	6380.00
33	P78-53	3-240	1-Saw, metal cutting	4750.00
34	P183-53	3-920	1-Ortho-Illuminator	325.00
35	P79-53	3-240	1-Milling Machine Vertical	14,500.00
36	P121-53	3-730	1-Gramatic Balance	985.00
37	P142-53	3-240	4-Regulated Power Supply @ \$203.50	814.00
38	P143-53	3-240	2-Dual Output Power Supply @ \$307.50	715.00
39	C1-54	3-700	Alterations to Building 365	2700.00
40	P144-53	3-240	1-Direct Current Voltmeter 1.5 to 750 V	235.00
41	P145-53	3-240	1-Direct Current Milliammeter 1.5 to 1500 ma.	208.00
42	P198-53	3-240	1-Digital Recorder	1400.00
43	M4-53 (Part B)	3-100	Moves into and Occupancy of MRDL Permanent Facilities, Building 815	161,000.00

INTEGRATED PRIORITY LIST FOR ITEMS IN THE NRDL "C", "M" & "P" FACILITY PROGRAMS

Category B

Priority Number	NRDL Item Number	NRDL Code	Description	Estimated Cost
1	P140-53	3-940	1-Six Channel Multiple Recorder	\$ 1100.00
2	P147-53	3-210	1-Automatic, Plastic Laminating Press	715.00
3	P155-53	3-940	1-Counting Rate Meter	347.00
4	P130-53	3-220	1-Photo-copy Unit (Photograph & Transparency)	560.00
5	P138-53	3-910	1-Motion Picture Projector	840.00
6	P89-53	3-220	1-Adding Machine	375.00
7	P126-53	3-940	1-Spectrometer and Accessories	3000.00
8	P108-53	3-220	1-Tracing Table	190.00
9	P194-53	3-940	4-Graphic Recorders @ \$385.00	1540.00
10	P1-54	3-220	1-Micro-Card Reader	250.00
11	P93-53	3-940	1-Optical Bench Assembly	880.00
12	P153-53	3-240	1-Double Pulser	495.00
13	P131-53	3-940	1-Monochromator, Quartz	3250.00
14	P88-53	3-240	1-Video Oscillator	523.00
15	P12-54	3-920	300-Rat Cages @ \$37.00	12,210.00
16	P65-53	3-240	1-Fast-rise Pulse Generator	358.00
17	P134-53	3-940	1-Photo-Electric Fluorescence Meter	640.00
18	P61-53	3-240	1-Precision Pulser	435.00
19	P148-53	3-940	2-Portable Vacuum Systems @ \$1650.00	3300.00
20	P154-53	3-240	2-Solowatt Regulator @ \$165.00	330.00
21	P95-53	3-730	1-Condenser R Meter and Accessories	1050.00
22	P151-53	3-240	1-Hallard Supersonic Soldering Iron	275.00
23	P139-53	3-730	1-Condenser "R" Meter	556.00
24	P64-53	3-240	1-Resistance Limit Bridge	402.00
25	P149-53	3-940	1-Portable AC Ultra-Violet Unit	231.00
26	P83-53	3-240	2-Vacuum Tube Voltmeter @ \$270.00	540.00
27	P21-54	3-920	1100-Mice Cages @ \$7.00	8470.00
28	P66-53	3-240	1-AC Voltmeter, Recording	345.00
29	P92-53	3-940	1-Polarizing Microscope and Accessories	2300.00
30	P63-53	3-240	1-AC Wattmeter, recording	355.00
31	P125-53	3-940	1-Micromanipulator	605.00
32	P74-53	3-240	1-Wattmeter, Portable	224.00
33	P23-54	3-920	750-Rat Cages @ \$7.00	5275.00
34	P76-53	3-240	1-Insulation Test (Megger)	279.00
35	P129-53	3-940	2-Pulse Height Analyzer @ \$1100.00	2200.00
36	P109-53	3-240	1-Velometer	231.00
37	P141-53	3-940	1-Quartz Spectrophotometer and Accessories	1925.00
38	P158-53	3-240	1-Time Recorder	660.00
39	P152-53	3-940	1-pH-meter	300.00
40	P113-53	3-240	1-Waterwash Spraybooth	4100.00
41	P132-53	3-940	1-Low Frequency Function Generator	495.00
42	P61-53	3-240	2-Floor Polishing @ \$163.00	326.00
43	P175-53	3-930	1-Amplifier	155.00
44	P135-53	3-930	1-Quartz Fibre Microbalance	1650.00
45	P137-53	3-930	2-Decade Combs	375.00

Category B (continued)

Priority Number	NRDL Item Number	NRDL Code	Description	Estimated Cost
46	P190-53	3-930	1-Induction D.C. Amplifier	\$ 400.00
47	P136-53	3-930	1-Photo-electric Fraction Collector	2200.00
48	P137-53	3-930	1-Solvent Extraction Unit	1080.00
49	P6-54	3-930	1-Electrophoresis Unit	3300.00
50	P186-53	3-930	1-Liquid Method Reclamation Booth	16,500.00
51	P195-53	3-930	1-Infrared Spectrograph with Accessories	17,000.00
52	P168-53	3-930	1-Spray Booth, Decontamination	22,000.00
53	P119-53	3-730	1-Furnace (Box Type)	737.00
54	F73-53	3-240	1-Ovalid (Dry Develop) Machine	1802.00
55	P197-53	3-920*	1-Analytical Ultra centrifuge	18,480.00
56	P165-53	3-920*	1- ³⁵ K-Iometer	671.00
57	P167-53	3-920*	1-Balance Analytical	418.00
58	P164-53	3-920*	2-Vacuum Ovens @ \$150.00	300.00
59	P162-53	3-920*	1-Precision Balance	400.00
60	P173-53	3-920*	1-Delineascope (Spencer Model GR)	330.00
61	P166-53	3-920*	1-Muffle Furnace	130.00
62	P8-54	3-940*	2-Vacuum Pump	242.00
63	P9-54	3-940*	1-Drill Press	175.00
64	P179-53	3-920*	1-Poly-Vise Cardiette	3300.00
65	P178-53	3-920*	1-Electrometer	600.00
66	P10-54	3-940*	1-DC Voltmeter	385.00
67	P180-53	3-920*	1-Calculator	815.00
68	P185-53	3-920*	2-Laboratory Scales (Toledo)	1300.00
69	P196-53	3-920*	1-Circular Warburg Apparatus	1628.00
70	P199-53	3-920*	1-Recorder	1000.00
71	P200-53	3-920*	1-Vacuum Oven	154.00
72	P4-54	3-920*	1-Centrifuge, Refrigerated	2810.00
73	P5-54	3-920*	1-Holding Machine	375.00
74	P14-54	3-920*	1-Refrigerator	365.00
75	P15-54	3-920*	1-Refrigerator (Portable)	155.00
76	P16-54	3-920*	1-Color Camera (Automatic)	785.00
77	P17-54	3-920*	1-Constant Temperature Bath	310.00
78	P181-53	3-920*	3-Spectrophotometer	1300.00
79	P161-53	3-920*	1-Double Hook Balance	210.00
80	P159-53	3-920*	1-Galvanometer	175.00
81	P157-53	3-920*	1-Becquerel Oxygen Analyzer	2100.00
82	P97-53	3-930*	1-Viscometer	385.00
83	P98-53	3-930*	1-DC Voltmeter	286.00
84	P160-53	3-920*	1-Potentiometer	440.00
85	P168-53	3-920*	1-Water-Bath	220.00
86	P99-53	3-930*	1-Conductivity Bridge	155.00
87	P100-53	3-930*	1-Weather Gmeter	3355.00
88	P172-53	3-920*	1-Water-Bath	150.00
89	P91-53	3-910*	1-Calculator (Marchant)	816.00
90	P182-53	3-920*	1-Gram-matic Analytical Balance	1100.00
91	P101-53	3-930*	1-Electric Oven	253.00
92	P102-53	3-930*	1-Mercuria Balance	132.00
93	P11-54	3-920*	1-Chromatocab	385.00

Category B (Continued)

Priority Number	NRDL Item Number	NRDL Code Number	Description	Estimated Cost
94	P103-53	3-930*	2-Centrifuge @ \$190.50	\$ 381.00
95	P104-53	3-930*	1-Microscope (Measuring)	400.00
96	P105-53	3-920*	1-Furnace, Muffle	176.00
97	P106-53	3-930*	1-Battery Charger	121.00
98	P107-53	3-930*	1-Water Bath	220.00
99	P108-53	3-930*	2-Florators @ \$165.00	330.00
100				
101	P111-53	3-930*	1-X-Ray Film Dryer	385.00
102	P112-53	3-930*	1-Lead Shield (Cave)	286.00

8 Jun 1953

LIST OF MINOR NEW CONSTRUCTION & IMPROVEMENT PROJECTS

<u>NRDL PROJ. NO.</u>	<u>NRDL CODE NO.</u>	<u>DESCRIPTION</u>	<u>ESTIMATED COST</u>
<u>CATEGORY A</u>			
Cl-54	3-700	Alterations & Improvements to Building 365	\$ 2700.00
<u>CATEGORY B</u>			
None			
<u>CATEGORY C</u>			
None			

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ENCLOSURE (2) Page 1 of 1 Page