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UNITED STATES
ATOMIC ENERGY COMMISSION

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COVER SHEET AND ROUTE SLIP FOR CLASSIFIED MATERIAL

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ATOMIC ENERGY COMMISSION
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SAN FRANCISCO OPERATIONS OFFICE

200 BUSH STREET
SAN FRANCISCO 4
CALIFORNIA

OCT 8 1953

Mr. W. B. Reynolds, Business Manager
Radiation Laboratory
University of California
Berkeley, California

Subject: PROJECT WHITNEY DATA SHEET - PROJECT 3-471-5001

Dear Mr. Reynolds:

Enclosed for your information is one (1) copy of the Project
Whitney Data Sheet, Project No. 3-471-5001 submitted to the
Bureau of the Budget by the Commission on September 15, 1953.

Sincerely yours,

E. C. Shute
Contract Administrator

Enclosure:
PW Data Sheet

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: <i>Doel/Waloo</i>	DATE: <i>12/20/96</i>
REVIEWER (ADD): <i>AK</i>	DATE: <i>12/20/96</i>
NAME: <i>AK</i>	DATE: <i>12/20/96</i>
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DETERMINATION (CIRCLE NUMBER(S))	
1. CLASSIFICATION RETAINED	
2. CLASSIFICATION CHANGED TO:	
3. CONTAINS NO DOE CLASSIFIED INFO	
4. COORDINATE WITH:	
5. CLASSIFICATION CANCELLED <i>LLNL</i>	
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7. OTHER (SPECIFY):	

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Enclosure:
PW Data Sheet

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: <i>Doyle/KS/AD Aapt 11/1/56</i>	DETERMINATION (CIRCLE NUMBER(S))
REVIEWER (ADD):	1. CLASSIFICATION RETAINED
NAME: <i>Doyle</i>	2. CLASSIFICATION CHANGED TO:
DATE: <i>12/20/96</i>	3. CONTAINS NO DOE CLASSIFIED INFO
	4. COORDINATE WITH:
	5. CLASSIFICATION CANCELLED <i>LEML</i>
	6. CLASSIFIED INFO BRACKETED <i>98-51ed</i>
	7. OTHER (SPECIFY):

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Operations Office: San Francisco

Obligations and Costs for Construction by Project - Weapons

U. S. ATOMIC ENERGY COMMISSION
 FY 1955 Budget Estimates
 Appropriation: Plant and Equipment

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CLASSIFICATION CANCELLED OR

CHANGED TO *Unclassified*

BY AUTH. *Sen 11 Rev 2*

BY *276* ~~SECRET~~ DATE *11-5-91*
 BY *276* ~~SECRET~~ DATE *11/5/91*

A-2753

DOCID: 10411800

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Project No.	Project Title	Total Estimated Cost	Obligations				Costs Incurred										
			Actual to 6/30/52	FY 1953	FY 1954	Estimated FY 1955	Actual to 6/30/52	FY 1953	FY 1954	Estimated FY 1955							
3-471-3001	Project Whitney Facilities	3,400,000		3,400,000													
4001	Project Whitney Additions	4,000,000			4,000,000												
5001	Project Whitney FY 1955 Facilities	4,100,000				4,100,000											
	Total	11,500,000		3,400,000	4,000,000	4,100,000		1,946,079	4,503,921	3,150,000	1,900,000						

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CONSTRUCTION PROJECT DATA SHEET

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: [CIRCLE NUMBER(S)]	
DATE: 12/12/1966	
REVIEWER (ADD):	
NAME: [Signature]	
DATE: 12/12/1966	
1. DETERMINATION (CIRCLE NUMBER(S))	
2. CLASSIFICATION CHANGED TO:	
3. CONTAINS NO. DOE CLASSIFIED:	
4. COORDINATE WITH:	
5. CLASSIFICATION CANCELLED [CIRCLE]	
6. CLASSIFIED INFO BRACKETED [CIRCLE]	
7. OTHER (SPECIFY):	

San Francisco Operations Office

1. Name and location of Project: Project Whitney, FY 1955 Facilities
Livermore, California

3. Start Date: July 1, 1954

4. Completion Date: April 30, 1956

5. Previous Cost Estimate Date: - None

6. Current Cost Estimate: \$4,100,000
Date: 5/1/53

Weapons
Sub-Program

2. Project No.: 3-471-5001

7. Brief Project Description and Justification:

The weapons program at the University of California Radiation Laboratory was initiated in FY 1953 for the dual purpose of providing an additional effort in the field of thermonuclear weapons research and to assist the Los Alamos Scientific Laboratory by making diagnostic measurements. During FY 1954 the program is being augmented by the addition of research in the small weapons field. A master development plan has been prepared covering necessary buildings and technical facilities to support the program at the Livermore site, geared to an ultimate staff level of 1,500 by year-end FY 1955. This master plan totals \$11,500,000 of which \$7,400,000 has been provided in Fiscal Years 1953 and 1954. The balance of \$4,100,000 is requested in this budget.

8. Obligation and Costs Schedules:

Fiscal Year	Obligations	Costs
1955	\$4,100,000	\$2,200,000
1956	-	1,900,000
	\$4,100,000	\$4,100,000

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CONSTRUCTION PROJECT DATA SHEET

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REVIEWER (ADD): <i>[Signature]</i>	2. CLASSIFICATION CHANGED TO:
NAME: <i>[Signature]</i>	3. CONTAINS NO DOE CLASSIFIED INFO
DATE: <i>12/20/94</i>	4. COORDINATE WITH:
	5. CLASSIFICATION CANCELLED <i>4/2/95</i>
	6. CLASSIFIED INFO BRACKETED <i>9/8/5/95</i>
	7. OTHER (SPECIFY):

San Francisco
Operations Office

Weapons
Sub-Program

1. Name and Location of Project: Project Whitney, FY 1955 Facilities
Livermore, California

2. Project No.: 3-471-5001

9. Detailed Justification for Project: (Continued)

Shop Facilities, Section II \$ 300,000

This provides for 25,000 sq. ft. of space required by the Laboratory's expansion and will bring the shops up to full capacity. The first increment (Section I, 25,000 sq. ft.) is being constructed during FY 1954 at a cost of \$300,000.

Water Boiler or Swimming Pool Reactor \$ 500,000

This facility is a reactor with characteristics that make it a very valuable addition to a weapons research project. It is required to provide for a local source of neutrons, of a suitable flux and energy for use in diagnostic radiochemistry.

Critical Facility, Site 300 \$ 200,000

This is a technical facility to be located at a suitable remote site for use in assembling devices and making measurements on assemblies which have multiplication factors too large to permit measurement in the Livermore Laboratory. It will include a critical assembly building which will house the remote controlled handling equipment, a control building, offices and shops, and a storage vault for source and fissionable materials. The remote site, including certain high explosive facilities, is scheduled for acquisition in FY 1954 at a cost of \$550,000.

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CONSTRUCTION PROJECT DATA SHEET

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
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REVIEWER (ADD):	<i>Doc 11/21/94</i>
NAME:	<i>Doc 11/21/94</i>
DATE:	<i>11/20/94</i>
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San Francisco
Operations Office

Sub-Program
Weapons

1. Name and Location of Project: Project Whitney, FY 1955 Facilities
Livermore, California

2. Project No.: 3-471-5001

9. Detailed Justification for Project: (Continued)

Computer Facilities, Section II \$ 1,050,000

This item provides for the construction of a building (6,500 sq.ft.) to house a Univac computer and to provide adequate storage for records. This building will be a fireproof concrete structure with air conditioning equipment to protect this expensive equipment against loss by fire and operating failures due to overheating. The cost of this building is estimated at \$100,000, and the cost of the Univac at \$950,000. A similar but smaller facility (Section I, 4,000 sq. ft.) was constructed in FY 1953 at a cost of \$910,000.

Miscellaneous Construction \$ 750,000

This item consists of building alterations and construction of small buildings and technical facilities. Also included in this project are fire sprinklers, security fencing, paving, water, sewers, gas and drainage of an annual recurring nature. FY 1953 costs for these items was \$715,000 and \$1,000,000 is programmed for expenditure in FY 1954.

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CONSTRUCTION PROJECT DATA SHEET

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SINGLE REVIEW AUTHORIZED BY: <i>DAE/Holden</i>	
REVIEWER (ADD): <i>DAE/Holden</i>	
NAME: <i>DAE</i>	DATE: <i>12/20/94</i>
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San Francisco
 Operations Office

Weapons
 Sub-Program

1. Title and Location of Project: **Project Whitney, FY 1955 Facilities**
 Livermore, California

2. Project No.: 3-471-5001

9. Detailed Justification for Project (Continued)

A recapitulation of the total Project Whitney site development through FY 1955 in the amount of 11,500,000 is shown below:

	FY 1953	FY 1954	FY 1955	Total
Accelerators	850			850
Computers	910		1,050	1,960
Chemistry Laboratory	425			775
Fabrication and Assembly	500			700
Diagnostic and Device Development		900	450	1,350
Cryogenics		400	700	1,100
Sub-Critical Assembly		150		150
Shops		300	300	600
Handling and Storage		150	150	300
Remote Site		150	200	350
Water Boiler or Swimming Pool Reactor		550	500	1,050
Other Technical Facilities				500
Miscellaneous				
Totals	<u>715</u>	<u>1,000</u>	<u>750</u>	<u>2,465</u>
	<u>3,400</u>	<u>4,100</u>	<u>4,100</u>	<u>11,500</u>

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7. OTHER (SPECIFY):	

San Francisco
Operations Office

Weapons
Sub-Program

1. Name and Location of Project: Project Whitney FY 1955 Facilities
Livermore, California

2. Project No.: 3-471-5001

10. Details of Cost Estimates and Significant Costs:

Status of Construction	Previous Cost Estimate	Current Cost Estimate
A. Engineering Design & Inspection	-	\$ 295,000
B. Construction Costs	-	-
1. Land and Land Rights	-	195,000
2. Improvements to Land	-	1,215,000
3. Buildings	-	125,000
4. Other Structures	-	250,000
5. Utilities	-	1,740,000
6. Equipment	-	-
7. Removal Costs Less Salvage	-	-
C. Contingencies	-	280,000
D. Grand Total	-	\$4,100,000

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CONSTRUCTION PROJECT DATA SHEET

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	7. OTHER (SPECIFY): _____

San Francisco
Operations Office

Sub-Program Weapons

1. Name and Location of Project: Project Whittey, FY 1955 Facilities Livermore, California

2. Project No.: 3-471-5001

10. Details of Cost Estimates and Significant Costs: (Continued)

Significant Unit Costs:	Gross Square Feet	Cost per Sq. Ft.	Total Building Cost	Total Project Cost
Computer	6,500 sq.ft.	\$15.38	\$ 100,000	\$1,050,000
Critical Facilities	10,000 sq.ft.	10.00	100,000	200,000
Reactor	5,000 sq.ft.	15.00	75,000	500,000
Shops	25,000 sq.ft.	9.80	245,000	300,000
Handling & Storage	25,000 sq.ft.	5.40	135,000	150,000
D. & D. Building	20,000 sq.ft.	16.50	330,000	450,000
Cryogenics Facility	3,500 sq.ft.	37.14	130,000	700,000
Miscellaneous Construction, Utilities, etc.	10,000 sq.ft.	10.00	100,000	750,000
			<u>\$1,215,000</u>	<u>\$4,100,000</u>

11. The Architect Engineer Work will be accomplished under a negotiated contract, either of lump-sum or cost-type depending on scope and security considerations. Construction where possible will be handled on a lump-sum basis as a result of competitive bidding. Technical facilities will be handled as a sub-contract under University of California Radiation Laboratory or by using their own forces, depending which appears to be more advantageous to the Government.

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