MRA 1 Ivy Vol. 2

MAT:RPC

409022

OCT 16 1952

MEMORANDUM TO    Mr. Gordon Dean
Mr. T. Murray
Dr. H. D. Smyth
Mr. T. K. Glennan
Mr. E. M. Zuckert

Subject:    COST OF HELIUM FILLED BOX FOR GAMMA-NEUTRON EXPERIMENT
AT IVY

The General Manager of Holmes & Narver Company, Inc., in Los Angeles,
reports the following estimates on the cost of this box:

| | |
|---|---|
| Initial Estimate, Box | $693,125 |
| Initial Estimate, Metal Roof | 80,450 |
| Total Initial Estimate | $773,575 |
| His guess as to actual final cost of box | $650,000 |
| Cost of helium, 4 fillings | $ 35,000 |
| Cost of shipping helium and returning empty cylinders | $150,000 |
| Probable final cost | $835,000 |

To this must be added cost of balloons and load collimators, not now
known, to get final total cost.

It is interesting to note here that the original proposition from the
laboratory was to perform this same function by using coaxial cable
buried at the required depth in the causeway. The total cost of doing
this experiment this second way was estimated as follows:

| | |
|---|---|
| Causeways built up to 30', 20', & 10' (including concrete conduits and manholes) | $2,000,000 |
| 9000' Coaxial Cable @ $10.00 per ft. | 90,000 |
| Total | $2,090,000 |

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circulated with revisions
in AEC 483/24

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This was rejected and the helium filled box was chosen as being the less expensive of the two.

R. G. Butler
Colonel, Ord. Corps
Deputy Director of
Military Application