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AEC 483/24

COPY NO. 15

October 20, 1952

ATOMIC ENERGY COMMISSION

REPOSITORY NARA Colby Point
COLLECTION RG 326 51-50, Johnston GAMMA-NEUTRON EXPERIMENT AT IVY
BOX No. 182 (NN3-326-93-010) Note by the Secretary
FOLDER MRA 7 Aug, 1952

The Division of Military Application has submitted for the information of the Commission the following data concerning the helium-filled box for gamma-neutron experiments 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 | <u>80,450</u> |
| 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 | <u>150,000</u> |
| Probable cost of box and helium | \$835,000 |

"To this must be added cost of balloons and lead collimators, not now known, to get final total cost. These two items may be of the order of \$10,000 - \$15,000.

"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.

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW

1. CLASSIFICATION (S) _____

2. DATE OF REVIEW _____

3. REVIEWER'S NAME _____

4. REVIEW DATE: 4-20-85

5. REVIEWER'S SIGNATURE: [Signature]

6. REVIEWER'S TITLE: _____

7. OTHER REVISIONS: _____

8. DATE OF APPROVAL: 1/15/87

9. APPROVED BY: _____

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The causeway as built in its present form cost approximately \$1,000,000. The additional cost of doing this experiment this second way was estimated as follows:

| | |
|--|---------------|
| Causeways built up to 30', 20', & 10' (including concrete conduits and man- holes) | \$1,000,000 |
| 9000' Coaxial Cable @ \$10.00 per ft. | <u>90,000</u> |
| Total | \$1,090,000 |

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

ROY B. SNAPP

Secretary