

UNCLASSIFIED

Form No. 104	3-03-97
Authority	104
Person	

INVENTORIED
 AUG 17 1965
 INVENTORIED 3428-3
 OCT 1 1964
 REF 1-1964
 CRF T-3.1

7-11-62
 204
 531

INVENTORIED
 JUN 11 1962
 3441-1

Brigadier General A. W. Betts, Director
 U.S. Atomic Energy Commission
 Division of Military Application
 Washington 25, D.C.

3427-1
 [Handwritten notes]

Re: Proposals for Atmospheric and Out-of-the-Atmosphere Full Scale Testing

Ref: BBD TUX, RS 3446/40118, DTG 252130Z Sep. 61, A. W. Betts, DDA,
 to R. F. Hartford, ALO, info to S. P. Schwartz, SC, re Requests
 for Specific Actions on Atmospheric and Out-of-the-Atmosphere
 Full Scale Testing

INVENTORIED
 AUG 3 1966
 3428-3

This letter and the enclosed reports are in answer to your directives and requests in the referenced TUX.

1. A. Procurement schedules for both round and aerodynamic balloons have been investigated. These are incorporated in the enclosed report, "Proposal for Atmospheric Testing with Balloons."
- B. Tentative KPG balloon sites have been selected as JANET-KHUKYOK and HOW-BIKINI. Work with R&D personnel will continue on a final selection. No Sandia personnel will visit KPG for full scale test preparation purposes until authorized by your office.
- C. Preliminary inquiries have been made with DOB military personnel regarding availability of boosters and reentry vehicles. Inquiries to date have concentrated on REDSTONE and THOR. THOR is presently preferred because (1) it is still in production, (2) it has a demonstrated high reliability, (3) the present reentry vehicle is easier to adapt to devices than the REDSTONE, and (4) it has a greater "growth potential" than the REDSTONE.
- D. A safing, fusing, and firing system concept is described in the enclosed report, "Out-of-the-Atmosphere Testing."
- E. A diagnostic instrumentation system concept is described in the enclosed report, "Out-of-the-Atmosphere Testing." We will proceed with development including minor expenditures on the X-ray and

INVENTORIED
 MAR 7 1962
 3441-1

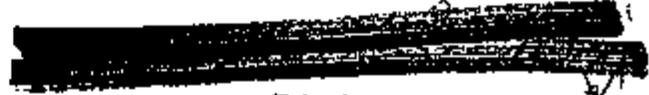
5400
 AUG 20 1962
 2834
 70

INVENTORIED
 MAY 6 1963

RECEIVED

UNCLASSIFIED

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO Emended Status 3/12/97	AUTHORITY R. B. [Name]
ON CHANGING MARKING & DATE [Name] 3/13/97	RECORD ID: 975W909
PERSON VERIFYING MARKING & DATE	DATED: 3/6/97



227
 71
 755 1/4

234
 57
 2500
 48

UNCLASSIFIED

Brig. Gen. A. W. Betts

-2-

~~RS 7230~~

time interval instruments required in this concept. RAD-CHEM sampling was not proposed in the six-month TROK capability because it is not believed possible to develop a sampler recovery/reentry system in this time scale. Conceptual planning for this type system, however, will be initiated.

2. A. and B. No balloon procurement or practice balloon flying will be initiated until authorized by your office.
3. Enclosed are three proposals entitled, "Proposal for Atmospheric Testing with Balloons," "Out-of-the-Atmosphere Testing," and "A Plan for Establishing a Capability for Large Yield Testing in Two Months." The schedules and costs contained in these proposals should be considered more representative than exact due to the short preparation time.

We shall continue to work on your directive under the stated ground rules. You will be informed of any major changes resulting from this continued effort.

Original Copy 3/27
S. P. S. 10/12

JHS:7230:jj

Enc: (1) RS 7251/1
(2) RS 7252/8
(3) RS 7292/9

Distribution:

1/13A - Brig. Gen. A. W. Betts, USAAC, DMA, w/enc. (1) 1,2,3/13A, (2) 1,2,3/13A, (3) 1,2,3/13A
2/13A - K. P. Hartford, USAAC, ALO, w/enc. (1) 4,5/13A, (2) 4,5/13A, (3) 4,5/13A
3/13A - Charles C. Campbell, USAAC, SAO, w/enc. (1) 6/13A, (2) 6/13A, (3) 6/13A
4/13A - M. E. Bradbury, LASL, w/enc. (1) 7,8/13A, (2) 7,8/13A, (3) 7,8/13A
5/13A - J. S. Foster, LRL, w/enc. (1) 9/13A, (2) 9/13A, (3) 9/13A
6/13A - C. W. Campbell, 4000, w/enc. (1) 11/13A, (2) 11/13A, (3) 11/13A
7/13A - G. C. Dacey, 5000, w/enc. (1) 12/13A, (2) 12/13A, (3) 12/13A
8/13A - E. E. Lander, 7100, w/enc. (1) 13/13A, (2) 13/13A, (3) 13/13A
9/13A - D. B. Hunter, 7200, w/enc. (1) 14,15/13A, (2) 14,15/13A, (3) 14,15/13A
10/13A - B. S. Biggs, 8000, w/enc. (1) 16/13A, (2) 16/13A, (3) 16/13A
11/13A - G. A. Fowler, 7000, w/enc. (1) 18/13A, (2) 18/13A, (3) 18/13A
12/13A - H. K. Sultzer, 3421-3, w/enc. (1) 17/13A, (2) 17/13A, (3) 17/13A
13/13A - S. P. Schwartz, 1, w/enc. (1) 10/13A, (2) 10/13A, (3) 10/13A

UNCLASSIFIED