

FEB 12 1960

MEMORANDUM FOR THE ASSISTANT SECRETARY OF DEFENSE (COMPTROLLER)

SUBJECT: Handling of Budget for Nuclear Weapons Effects Research, Fiscal Year 1962

Reference is made to Defense Atomic Support Agency Memorandum to you dated 27 January 1960, subject as above. This office received a copy of the referenced document and on this basis has made a thorough review of the proposed procedures for improving the coordination of the Nuclear Weapons Effects Research program of the Department of Defense.

Although the proposed procedure will add somewhat to the programming problem of the three military departments, the advantages of having a thoroughly integrated program within the Department of Defense will more than offset these disadvantages. It is believed that the proposed procedures are a reasonable compromise between a strict centralized funding of nuclear effects research and the present loose coordination of programs that now exists. My only suggestion is that consideration be given to establishing a lower limit on the magnitude of the projects that will normally be handled through the proposed DASA procedure. This would streamline the procedure somewhat by permitting projects involving only a few man years of effort (e.g. \$50,000 per year) to be excluded from formal coordination and justification at the DASA level.

On the basis of the above this office endorses the DASA proposal and urges its early implementation.

/s/ Herbert F. York

Herbert F. York

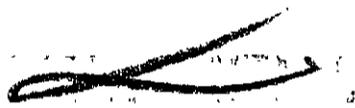
cc: DASA  
Mr. Jackson, ABCW

Prep'd: LAKnutson/es/11 Feb 60  
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26 MAR 1960

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DEPARTMENT OF DEFENSE  
DEFENSE ATOMIC SUPPORT AGENCY  
WASHINGTON 25, D.C.

4878

*W. E. Brown*  
74994

ADDRESS REPLY TO:  
THE CHIEF, DEFENSE ATOMIC  
SUPPORT AGENCY

DASACT 900

27 JAN 1960

MEMORANDUM FOR: ASSISTANT SECRETARY OF DEFENSE (COMPTROLLER)

SUBJECT: Handling of Budget for Nuclear Weapons Effects Research,  
FY 1962

1. DASA is presently (through the Future Weapons Effects Requirements Board and its technical panels) working on a coordinated FY 1961 program in nuclear weapons effects research among the Departments and DOD agencies. This effort did not begin until the DOD-BOB markup of FY 1961 estimates was evaluated, and suffers somewhat as a result.

2. Inclosed is a draft memorandum which will provide for a coordinated budget review process in this area. It is requested that it be approved and issued.

1 Incl  
Draft Memorandum

EDWARD N. PATTON,  
Rear Admiral, USN  
Chief

Copy furnished:  
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26 MAR 1992

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MEMORANDUM FOR: THE UNDER SECRETARY OF THE NAVY  
THE ASSISTANT SECRETARY OF THE ARMY (FM)  
THE ASSISTANT SECRETARY OF THE AIR FORCE (FM)  
DIRECTOR, ARPA  
CHIEF, DASA

SUBJECT: Handling of Budget for DOD Nuclear Weapons Effects Research Program, FY 1962.

1. Certain exceptions were taken this year to nuclear weapons effects research budgets presented independently by the Military Departments and DOD agencies. In order to provide an orderly review of projects in this area for the FY 1962 estimates, including those sponsored by ARPA and DASA, the Chief DASA is requested to coordinate the budget presentations at joint BOB-DOD review.

2. FY 1962 Budget targets for nuclear weapons effects research will be assumed by DASA. The targets will be superseded by the DOD-BOB markup figures, in which the appropriate sums are to be transferred to the service and agency budgets involved for inclusion in the President's budget.

3. There is inclosed in the format of the publication "Guidance for the Preparation of Support Material for Apportionment Requests and Budget Estimates" instructions implementing the above.

26 MAR 1962

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NUCLEAR WEAPONS EFFECTS RESEARCH

I. Appropriations and Programs Applicable Under this Section

- A. Army  
RDT&E, A, Program 5000
- B. Navy (includes Marines)  
RDT&E, N, Program
- C. Air Force  
RDT&E, AF, Program
- D. ARPA  
Salaries and Expenses, ARPA

II. General

Nuclear weapons effects research budgets will be coordinated by Defense Atomic Support Agency.

III. Back-up Material

A. Submit the following material to Defense Atomic Support Agency, Room 1-B-729:

- 1. By 1 May of 1961-1  
One line sum of NOA estimated for budget year in activities A1 through A-12 (see part V hereof). These amounts will be added for DOD and the services into a target sum for total Nuclear Weapons Effects Research, to be charged to DASA until superseded by BOB-DOD mark-up in Oct.-Nov. of current fiscal year.
- 2. By 15 August of current fiscal year
  - a. NOA estimated for each activity A1 through A12 (Exhibit NWEF-1)
  - b. R&D Project Card (DD-613) for the projects included under each activity in which NOA is required during budget year. For projects not yet itemized, use one DD-613 to describe basis for the balance of funds required in the budget activity, and not otherwise itemized.

IV. Presentation

- 1. DASA will consolidate all Service and DOD requirements and present them at Joint BOB-DOD budget review.
- 2. ARPA and the Services are requested to be represented at the DASA presentation. Their representatives should be prepared to answer questions on service matters proposed by the DOD and BOB representatives. Time and place of meeting will be announced by Chief, Defense Atomic Support Agency.
- 3. After presentation, the information will thereafter be included in summary form in the respective budgets, on the basis of the joint BOB-DOD mark-up.

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V. Definition of Activities

Activity

Title

- A. Nuclear Weapons Effects Research. Research to obtain new information on phenomena and effects of nuclear explosions in any environment, and the response, protection, and recovery of representative targets, including personnel; not normally including the application of existing effects information to specific military systems.

NOTE: The following Project classification is considered to be sufficiently broad to assure coverage of the field; the list of tasks under these Projects, however, may not be exhaustive and is not intended to exclude tasks otherwise inclusive under the general definition above.

1. Atomic Weapons Vulnerability
  - a. Fragmentation
  - b. Nuclear Radiation
  - c. Peak Overpressure and Dynamic Pressures
  - d. Fire and Thermal Radiation
  - e. Impact
  - f. Electronic Countermeasures and Accidental Electronics Interference
2. Air Blast Effects
  - a. Phenomenology
  - b. Loading and Response
3. Water Blast and Shock Effects
  - a. Phenomenology
  - b. Loading and Response
4. Underground Blast and Shock Effects
  - a. Phenomenology
  - b. Loading and Response
5. Thermal Radiation
  - a. Effects on Materials
  - b. Ignition Studies
  - c. Environmental and Attenuation Studies
  - d. X-Ray Studies
  - e. Weapons Test Instrumentation
6. Nuclear Radiation
  - a. Shielding Studies
  - b. Effects on Materials
  - c. Theoretical and Experimental Studies
  - d. Weapons Test Instrumentation
7. Electromagnetic Effects
  - a. Phenomenology
  - b. Models and Simulation
  - c. Effects on Electronic Circuits
  - d. Weapons Tests Instrumentation

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V. Definition of Activities (cont'd)

8. Fallout
  - a. Distribution of Radioactive Debris
  - b. Model and Theoretical Studies
  - c. Weapons Test Instrumentation
  
9. Medical Aspects of Blast Injury
  - a. Mechanism of Blast Injury
  - b. Prevention of Blast Injury
  - c. Mass Casualty Methods of Treatment
  
10. Medical Aspects of Thermal Injury
  - a. Systemic Effects of Thermal Radiation
  - b. Protective Clothing and Skin
  - c. Oculo-Visual Effects
  
11. Medical Aspects of Ionizing Radiation
  - a. Total Body Radiation
  - b. Tissue Dosimetry
  - c. Radiation Sickness Prevention and Treatment
  - d. Biological Hazard of Fallout
  
12. Reactor Facilities
  - a. Establishment
  - b. Biological Studies

NUCLEAR WEAPONS EFFECTS RESEARCH  
 JUSTIFICATION OF ESTIMATES FOR 19FY PROGRAM

Military Department: \_\_\_\_\_ Date: \_\_\_\_\_

DISTRIBUTION BY ACTIVITY - SUMMARY  
 FOR PROGRAM YEARS 19FY THROUGH 19BY

Activity	Description	19FY Program	19CY Program	19BY Program
A1	Atomic Weapons Vulnerability			
A2	Air Blast Effects			
A3	Water Blast and Shock Effects			
A4	Underground Blast and Shock Effects			
A5	Thermal Radiation			
A6	Nuclear Radiation			
A7	Electromagnetic Effects			
A8	Fallout			
A9	Medical Aspects of Blast Injury			
A10	Medical Aspects of Thermal Injury			
A11	Medical Aspects of Ionizing Radiation			
A12	Reactor Facilities			
	TOTAL	\$ _____	\$ _____	\$ _____