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SANDIA SYSTEMATIC DECLASSIFICATION REVIEW	
1 <sup>st</sup> Review Date <u>7-24-97</u>	Determine (Circle Numbers)
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## SCOPE OF WORK FOR

## MK 28 FI BOMB/B52 DROP TEST PROGRAM

(PHASE I)

Scope of Work

This Scope of Work applies only to the first eight Mk 28 FI Bomb/B52 bomb drops. Presently designed bomb materiel will be utilized for this program. Passive instrumentation packages, providing a minimum of information through post-test evaluation, will be included.

The purpose of this program is to verify the functionability of the Mk 28 FI Bomb/B52 weapon system under actual routine handling, assembling, and drop during a Mk 28 FI Bomb/B52 stockpile-to-target sequence. These tests supplement and are in addition to other existing Quality Assurance programs. The drops will be made with denuclearized Mk 28 FI Bombs from B52 aircraft in calendar year 1965.

In accordance with agreements reached in meetings between representatives of the United States Air Force (USAF), Atomic Energy Commission, Albuquerque Operations Office (AEC-ALO), and Sandia Corporation (SC), the following principles and responsibilities for the performance of these tests are defined:

- A. Mutual exchange of observers during warhead and bomb modifications and assembly, drop tests, recovery activities, and post-mortem examinations is understood.
- B. Liaison between USAF and SC will be performed as necessary by either agency to insure that procedures, testing methods, and analysis methods used by both agencies are compatible.
- C. United States Air Force is responsible for:
  1. Selection of a random sample of eight WR Mk 28 FI Bombs which are in an operational status at B52 bases. USAF shall notify AEC-ALO of planned selection date at least 30 days prior to actual selection followed by serial numbers selected and date of availability for transfer to a designated AEC facility for denuclearization.

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO <u>U</u>	AUTHORITY <u>R. B. Cramer</u>
PERSON CHANGING MARKING & DATE <u>7/30/97</u>	RECORD ID <u>97SN2573</u>
PERSON VERIFYING MARKING & DATE <u>7/30/97</u>	DATED <u>7/30/97</u>

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2. Unloading the Mk 28 FI Bombs from aircraft and disassociating bombs from AF-furnished clip-in assembly.
3. Packaging of the Mk 28 FI Bombs for transport.
4. Delivery of eight Mk 28 Type 2A Warheads with the associated cables and hardware for modification of fuzes, to a designated AEC facility.
5. Providing labor and handling equipment to load and unload material at AF facilities (see Paragraph D4).
6. Reassociation of each of the Mk 28 FI denuclearized bombs with the same AF-furnished clip-in assembly from which originally removed.
7. Selection of an aircraft from the alert fleet and loading the aircraft with the denuclearized weapon(s).
8. Arranging and scheduling, jointly with SC, the bomb drop tests.
9. Furnishing SC with operational information on any irregularities in drop or predrop for inclusion in final reports on the program.
10. Participating with SC, as required, in the analysis and preparation of final reports of the bomb drops.

D. AEC-ALO and/or SC is responsible for:

1. Denuclearization of each bomb within 5 working days of receipt at the designated AEC facility. If more than one bomb is being denuclearized concurrently, some reduction in the total of 10 days' denuclearization time for two bombs, for one drop mission, may be realized. Selected components of Type 2A warheads will be used in the denuclearization process. The denuclearized bombs will be identified with unique markings.
2. Retention of all residue resulting from the denuclearization procedure.
3. Transportation as follows:
  - a. WR Mk 28 FI Bombs from the location within the Continental limits of the United States where disassociation of AEC and AF material takes place, to a designated AEC facility.
  - b. Denuclearized Mk 28 FI Bombs from the AEC facility to the location within the Continental limits of the United States where reassociation of AEC and AF material takes place.

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4. Performing loading or unloading supervision when AEC contract or controlled aircraft are used for transportation.
5. Arranging and scheduling, jointly with USAF, the bomb drop tests.
6. Arranging for photographic coverage of the drop zone to obtain trajectory, parachute operation, and burst data.
7. Recovery and delivery of the instrumentation package and/or other bomb residue in the recovered configuration to SC, Mr. J. R. Harrison, Division 2121, Albuquerque, New Mexico.
8. Issuing report of instrumentation-package evaluation after each drop mission and distributing to SACLO, SAAMA, and FC/DASA.
9. Issuing final report on bomb performance at the conclusion of the series of eight drops in the program; USAF data will be included. Distribution will be in accordance with existing stockpile sampling report procedures.

#### E. Markings

1. Upon completion of work at the AEC facility, each denuclearized warhead and modified fuze will be marked: "Mk 28 Mod 2 Denuclearized Warhead - Mixed Marble I - Serial No. \_\_\_\_\_," or, "Mk 28 Mod \_\_\_\_\_ Fuze - Mixed Marble I - Serial No. \_\_\_\_\_," followed by nickname of the test involved. This nickname (e.g., "Georgia Boy", "Hot Roof"), will be provided by SAC from the Fragmentary Operations Order for the test.

#### F. Funding

Each agency will fund for the activities for which it is responsible.

1. USAF funding will include:
  - a. USAF observers and other USAF personnel costs.
  - b. All drop-mission costs.
  - c. Type 2A Warhead cost. (Eight Type 2A warhead units will be billed to DASA at \$3,800 per unit.)
  - d. Cost of transportation as delineated in Paragraph C4.
2. AEC funding will include:
  - a. AEC/SC observers and other personnel costs.
  - b. Cost of denuclearization and modification of bombs.

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- c. Cost of photographic coverage and instrument-package recovery.
- d. Cost of instrument-package analysis, reporting, and the final program report.
- e. Cost of transportation as delineated in Paragraph D3.
- f. Type 2A Warhead cost. (AEC will fund for one-half the cost of eight Type 2A warhead units or approximately \$3,800 per unit.)

G. Security

Each party assumes responsibility, when physical possession is taken, for safeguarding classified information and material received from the other party. Such safeguarding will be in accordance with the regulations of the receiving party.

H. Certification

Upon completion of each denuclearization process, the AEC/SC and USAF observers will certify in writing that the established denuclearization procedures have been complied with. (See sample certificate below:)

CERTIFICATE OF WORK

This certifies that (Bomb) (Warhead) (Basic Assembly), Serial

No. \_\_\_\_\_ was modified this date

\_\_\_\_\_ in accordance with

procedures contained in Sandia Corporation Quality Engineering

Project (QEP) No. \_\_\_\_\_.

- QEP No./Date

\_\_\_\_\_  
USAF Observer

\_\_\_\_\_  
AEC/SC Observer

Distribution:

2 copies to USAF Observer

1 copy to Sandia Corporation/AEC Observer

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Distribution:

1-25/38A - L. C. Kersey, Director, Special Activities Div., AEC-ALO  
26/38A - S. P. Schwartz, 1  
27/38A - W. A. Gardner, 1500  
28/38A - B. E. Arthur, Jr., 1520  
29/38A - O. M. Fligner, 1524  
30/38A - L. J. Heilman, 2100  
31/38A - R. H. Schultz, 2120  
32/38A - J. R. Harrison, 2121  
33/38A - A. P. Gruer, 2130  
34/38A - H. M. Willis, 2530  
35/38A - R. G. Luckey, 4100  
→ 36/38A - F. C. Cheston, Jr., 6000  
37/38A - Central Technical File, 3428-1  
38/38A - E. H. Draper, 2000

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