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FINAL REPORT BY THE COMMANDER, JOINT TASK FORCE SEVEN

to the

I/1991

JOINT CHIEFS OF STAFF

411366

ARMED FORCES PARTICIPATION IN THE 1954 NUCLEAR AND
THERMONUCLEAR EXPERIMENTAL WEAPON AND DEVICE TESTS
(OPERATION CASTLE)

- References: a. J.C.S. _____ Series
 b. J.C.S. _____ Series

I. THE PROBLEM

(J-3 will state the problem)

II. DISCUSSION

(This section will be attached as an inclosure;
See INCLOSURE for details)

III. CONCLUSIONS

(Each staff division will submit conclusions, based on the
material submitted by the respective staff division and
contained in other sections of the report).

IV. RECOMMENDATIONS

(Each staff division will submit recommendations, based on
the material submitted by the respective staff division and
contained in other sections of the report).

BEST COPY AVAILABLE

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW DATE: 10-1-97	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: <input type="checkbox"/> AOC <input type="checkbox"/> ADC <input type="checkbox"/> ADD	1. CLASSIFICATION RETAINED
NAME: <i>Adams</i>	2. CLASSIFICATION CHANGED TO:
2ND REVIEW DATE: 10-23-97	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: ADD	4. COORDINATE WITH:
NAME: <i>Adams</i>	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

This document contains... data
as defined... Atomic Energy Act of
1954... authorized disclosure...
to...

LOS ALAMOS



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THIS DOCUMENT CONSISTS OF 5 PAGE(S)

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S-87-54-E-1

Act 65

J-91-JN-1484

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Inclosure

DISCUSSION

INTRODUCTION (Prepared by J-3 - approximately 200 words)

DETONATIONS (Prepared by J-3 - approximately 350 words for each weapon or device)

BRAVO Device

- a. Objective of detonation.
- b. General description (size, weight and major components).
- c. Critical materials.
- d. Operation.
- e. Yield.
- f. Remarks (significance of design features, diagnostic tests, probability of production with weapon configuration, stockpile potentialities, etc.).

UNION
YANKEE
ECHO
NECTAR
ROMEO
KOON

} Same information as that required for BRAVO device, above.

EXPERIMENTAL AND TECHNICAL MEASUREMENTS PROGRAMS

(Prepared by J-3 - approximately 5000 words. Will include object, method and general results. This will be a brief summary of each program. Detailed material will be included in Appendix "A").

(Brief Introduction - approximately 100 words)

Program 1 - Blast and Shock Measurements

Program 2 - Nuclear Effects

Program 3 - Structures

Program 6 - Test of Service Equipment and Operation

Program 7 - Long Range Detection

Program 11 - Radiochemistry

Program 12 - Reaction History

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Program 13 - Photography

Program 14 - External Neutron Measurements

Program 15 - Alpha Measurements

Program 16 - Gases and Residual Contamination

Program 17 - Microbarography

Program 18 - Thermal Radiation

Program 19 - Marine Survey

Program 21 - Radiochemistry

Program 22 - History of The Reaction

Program 23 - Scientific Photography

Program 24 - External Neutron Measurements

Program 25 - Diagnostic Developments

OPERATIONS (Prepared by J-3 - approximately 9500 words total).

Organization and Command Relationships

Planning and Training

On-Site Operations and Rehearsals

Operations Afloat

Evacuation (Bikini)

Post-Shot Re-entry

Disposition of Forces and Equipment

Search and Rescue

Weather

Radiological Safety

Photography

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Official Observers

Hostile Action Alert Plan (to be included only in event of typhoon, tidal wave, etc.).

Natural Disaster Defense Plan

COMMUNICATIONS AND ELECTRONICS (Prepared by J-5 - approximately 500 words).

Brief Introduction

Communication's Security

Command Communications

Scientific Electronics

Test Measurement Communications

Firing Circuits

Timing Signal Net

SECURITY (Prepared by J-2 - approximately 300 words).

Intelligence

Security

Public Information

LOGISTICS (Prepared by J-4 - approximately 800 words).

Transportation (To include inter and intra-atoll air and surface transportation).

Supply

Maintenance

Medical and Health Facilities (Hospitalization, sanitation, etc.).

PERSONNEL AND ADMINISTRATION (Prepared by J-1 - approximately 200 words).

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FINANCE AND FISCAL MATTERS (Prepared by Comptroller - approximately 400 words).

REPORTS (Prepared by J-3 - approximately 150 words. Will include info on forthcoming technical reports, histories, etc.).

APPENDICES

- A - Experimental and Technical Measurements Programs. (J-3)
- B - Chart - Organization for Operation CASTLE. (J-3)
- C - Chart - Organization and Mission - JTF SEVEN. (J-3)
- D - Chart - Organization and Mission - Scientific Task Group. (J-3)
- E - Chart - Organization and Mission - Army Task Group. (J-3)
- F - Chart - Organization and Mission - Naval Task Group. (J-3)
- G - Chart - Organization and Mission - Air Force Task Group. (J-3)
- H - Chart - Organization and Mission - AEC Base Facilities Task Group. (J-3)
- I - Radiological Safety. (J-3).
- J - Chart - Communications. (J-5)
- K - Chart - Communications. (J-5)
- L - Chart - Logistical Support (Air and Surface). (J-4)
- M - Financial Statement (Extra Military Funds). (Compt)
- N - Financial Statement (Research and Development Funds). (Compt)
- O - Chart - Overall Cost (Operation CASTLE). (Compt)

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