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DEFENSE ATOMIC SUPPORT AGENCY
NUCLEAR TEST SUMMARY
NOUGART -DOMINIC [REDACTED] Son, [REDACTED]

DASA-1211-SAN

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15 August 1963

DASA

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NUCLEAR TEST SUMMARY

NOUGAT - DOMINIC

15 August 1963

UNANNOUNCED

This document summarizes those nuclear tests conducted by the United States during the period 15 September 1961 through 4 November 1962 in Operations NOUGAT, DOMINIC, and DOMINIC II and the two PLOWSHARE events GNOME and SEDAN.

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FOREWORD

This report supplements the information contained in the 15 August 1962 report, Nuclear Test Summary, TRINITY-HARDTACK (U), DASA 1220.

DASA 1211 contains information concerning U. S. Nuclear Tests and test devices and is intended for the use of agencies concerned with nuclear weapons research and development. It is considered sensitive and access to it should be on a need-to-know basis. It should be referenced only to those on the distribution list.

Robert H. Dooth

ROBERT H. DOOTH
Major General, USA
Chief, DASA

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TABLE OF CONTENTS

	<u>PAGE</u>
Title Page	1
Foreword	3
U.S./U.K. Agreement	4
Table of Contents	5-7
SECTION I. Introduction	9-11
SECTION II. Tests Conducted in the Continental United States	13-63

<u>EVENT NUMBER</u>	<u>OPERATION</u>	<u>EVENT</u>	<u>DEVICE</u>	
1	NOUGAT	ANTLER		14
2		SHREW		15
3		BOOMER		16
4		CHENA		17
5		MINK		18
6		FISHER		19
7	PLOWSHARE	GNOME		20
8	NOUGAT	MAD		21
9		RINGTAIL		22
10		FEATHER		23
11		STOAT		24
12		AGOUTI		25
13		DORMOUSE		26
14		STILLWATER		27
15		ARMADILLO		28
16		HARDHAT		29
17		CHINCHILLA I		30
18		CODSAW		31
19		CIMARRON		32
20		PLATYPUS		33
21		PAMPUS		34
22		DANNY BOY		35
23		ERMINE		36
24		BRAZOS		37
25		HOGNOSE		38
26		HOOSIC		39
27		CHINCHILLA II		40
28		DORMOUSE Prime		41
29		PASSAIC		42
30		HUDSON		43
31		PLATTE		44
32		DEAD		45
33		BLACK		46
34		PACA		47

Deleted

<u>EVENT NUMBER</u>	<u>OPERATION</u>	<u>EVENT</u>	<u>DEVICE</u>	<u>PAGE</u>
35		ARIKAREE		48
36		AARDVARK		49
37		EEL		50
38		WHITE		51
39		RACCOON		52
40		PACKRAT		53
41		DES MOINES		54
42		JAMAN I		55
43		HAYMAKER		56
44		MARSHMALLOW		57
45		SACRAMENTO		58
46	PLOWSHARE	SEDAN		59
47	DOMINIC II	LITTLE FELLER II		60
48		JOHNIE BOY		61
49	(SUNBEAM)	SMALL BOY		62
50		LITTLE FELLER I		63

SECTION III. Tests Conducted in the Pacific Ocean Area.

1	DOMINIC	ADOBE		66
2		AZTEC		67
3		ARKANSAS		68
4		QUESTA		69
5		FRIGATE BIRD		70
6		YUKON		71
7		MESILLA		72
8		MUSKEGON		73
9		SWORDFISH		74
10		ENCINO		75
11		SWANEE		76
12		CHETCO		77
13		TANANA		78
14		NAMBE		79
15		ALMA		80
16		TRUCKEE		81
17		YESO		82
18		HARLEM		83
19		RINCONADA		84
20		DULCE		85
21		PETIT		86
22		OTOWI		87
23		BIGHORN		88
24		BLUESTONE		89
25	FISHBOWL	STARFISH PRIME		90
26	DOMINIC	SUNSET		91
27		PAMLICO		92

<u>EVENT NUMBER</u>	<u>OPERATION</u>	<u>EVENT</u>	<u>DEVICE</u>	<u>PAGE</u>
28		ANDROSCOGGIN		93
29		BUMPING		94
30		CHAMA		95
31	FISHBOWL	CHECKMATE		96
32		BLUEGILL Triple Prime		97
33	DOMINIC	CALAMITY		98
34		HOUSATONIC		99
35	FISHBOWL	KINGFISH		100
36		TIGHT ROPE		101

Deleted

APPENDICES

A.	Operation DOMINIC Drop Vehicles	103
B.	Times and Locations of Events	109
C.	Maps of Principal Test Areas	117
D.	Index	121
E.	Distribution	127

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SECTION I

INTRODUCTION

1-1 This report contains data on the nuclear devices which were detonated by the United States during the period 15 September 1961 through 4 November 1962 in the following Operations.

1-1.1 The NOUGAT underground tests conducted at the Nevada Test Site (NTS), during the period 15 September 1961 through 30 June 1962.

1-1.1.1 As of the time of publication of this report the BOOMER and ARIKAREE events of NOUGAT have not been publicly announced by the AEC. Therefore, the mere fact that these tests were conducted is considered sensitive.

1-1.2 The PLOWSHARE events GNOME and SEDAN.

1-1.3 The DOMINIC II surface or near-surface tests conducted at the Nevada Test Site during July 1962. Included in this series was the SMALL BOY event of Operation SUNBEAM.

1-1.4 The DOMINIC events conducted in the Pacific Ocean areas during 1962. The high altitude portion of DOMINIC was Operation FISHBOWL.

1-2 The data contained herein have been obtained from numerous sources and is the best information available at the time of publication.

1-3 The terms used in this report have the following connotations.

1-3.1 The DIMENSIONS apply, unless otherwise noted, to the nuclear system and do not include items such as gas reservoirs, fire sets, support structures, or diagnostic equipment. For the events in Section III, which were essentially proof or system tests of warheads in stockpile or about to enter stockpile, the bare nuclear system dimensions and weight of the device tested and the nominal dimensions and weight of the warhead are given.

1-3.2 The NUCLEAR MATERIALS include the principal fissionable and fusionable materials contained in the device.

[REDACTED]

1-3.3.1 Plutonium (Pu) is used in weapons in either of two allotropic states. In this report Pu(α) indicates the alpha allotope. Delta plutonium is phase stabilized by alloying with approximately one percent by weight of gallium. Except where the isotopic content is specifically indicated, all

[REDACTED]

[REDACTED] [REDACTED]

plutonium is of weapons grade and contains a nominal 6 percent of the isotope Pu^{240} .

1-3.2.2 Orallo (Oy) is uranium enriched in the isotope U^{235} . In this report, the symbol Oy refers to a nominal 93.5 percent enrichment in U^{235} . Other enrichments are indicated by Oy followed by the percentage of enrichment, for example, Oy(37.5). Various tracer elements are often alloyed with the Oy components for diagnostic purposes. The masses listed in this report are those of the components including the tracer elements.

1-3.2.3 Depleted uranium (D-38) is used to indicate uranium metal which is composed predominately (99.28 to approximately 99.8%) of the isotope U^{238} . The term tuballoy (Tu) has been used synonymously with D-38, however, the use of the term tuballoy is being discouraged.

1-3.2.4 Lithium (Li) is mentioned in this report in the following usages:

1-3.2.4.1 Li^6 is lithium enriched in the isotope Li^6 . In this report, Li^6 refers to a nominal 95% enrichment. Other enrichments are indicated by Li^6 followed by the percentage of enrichment.

1-3.2.4.2 Li refers to lithium in its naturally occurring isotopic proportions.

1-3.2.4.3 Li^6D , Li^6H , Li^6T , LiH refer to the salt formed by the chemical reacting of the hydrogen isotopes with lithium. Li^6DT is used as a symbol for a mixture of Li^6D and Li^6T .

[REDACTED]

1-3.4 The achieved YIELD is given in a common format to present both the fission yield and the total yield of each device.

1-3.4.1 The yields stated in Section II are based on radiochemical analysis of the device debris and detonation products. This method of yield determination provides a measure of only the fission yield.

1-3.4.1.1 A difference in philosophy on yield determination and interpretations which exist between the two weapons laboratories (LASL and LRL) should be noted. The total yields quoted for LASL boosted devices includes the radiochemically determined fission yield and a calculated fusion contribution based on an assumed boost gas burn efficiency. The total yield quoted for LRL boosted single-stage or primary-stage devices does not include the small energy contribution from fusion of the boost gas. The magnitude of the fusion yield is normally much less than the measurement uncertainty of the fission yield.

1-3.4.2 Yields listed for the LASL sponsored tests in the air drop portion of Operation DOMINIC (Section III) are the yield as determined by the " ϕ^5 " method of scaling the fireball yield.

1-4 Unless otherwise noted, the devices were initiated by external neutron generators.

1-5 The figures contained in this report are intended to illustrate the configuration of the nuclear system. Some attempt has been made to show the relative size of the constituent components; however, the drawings are not scaled.

[REDACTED]

[REDACTED] [REDACTED]

1-6 The times of the event in sections II and III are given to the nearest minute. More accurate timing data are given in Appendix B.

1-7 With the exception of the proof test of stockpile or about to be stockpiled weapons, the devices tested are designed strictly as test devices to obtain data on a particular concept and do not represent a final weaponized design. Thus, this report should not be used as a "design handbook" for assessing the acceptability of a given device concept for a possible weapon application.

1-8 Abbreviations and Code Words used in this report include:

[REDACTED]
BeO - Chemical symbol for beryllium oxide.

CH₂ - As used in this report refers to hydrocarbonous plastics - generally a polyethylene material.

det - Detonator - used to initiate detonation of the high explosives.

HE - High Explosive

HE O.D. - Outer diameter of the high explosive mass. For aspherical systems this is taken as the diameter along the minor axis.

HOB - Height of Burst.

KT - Kiloton - a unit of energy release equivalent to that of 1000 tons of TNT.

LASL - Los Alamos Scientific Laboratory.

LiF - Symbol used for Lithium Fluoride.

LRL - Lawrence Radiation Laboratory.

LTB - Symbol used for Lithium Tetraborate (Li₂B₄O₇·H₂O).

LX -040 - LRL developed high explosive.

MT - Megaton - a unit of energy release equivalent to that of one million tons of TNT.

MDF - Mild Detonating Fuse [REDACTED]

[REDACTED]
NTS - Nevada Test Site
[REDACTED]

T - When used as a nuclear material T is the symbol for tritium. When referring to yield T means the energy release equivalent to that of one ton of TNT.

UK - United Kingdom

[REDACTED]

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SECTION II

Tests Conducted in the
Continental United States

CONTINENTAL EVENT 1
NOUGAT ANTLER

SPONSOR: LRL
1700Z 15 Sep 61
Tunnel U12c.03a, Area 12, NTS
Depth: Slant 1570 ft., Overburden 1319 ft.

Deleted

H. E. SYSTEM

PBX 9010
PEX 9404

DIMENSIONS:

Max. Dia.: 11.5 in.
Length : 21.9 in.
Weight : 107 lb.

Deleted

SIGNIFICANCE:

Performed about as expected,

SPONSOR: LASL
1945Z 16 Sep 61
Hole U3ac, Area 3, NTS
Depth: 322 ft.

CONTINENTAL EVENT 2
NOUGAT SHREW

Deleted

H. E. SYSTEM

PBX 9010
PBX 9404

DIMENSIONS:

Max. Dia.: 10.9 in.
Length : 14.9 in.

Deleted

SIGNIFICANCE:

Performed about as expected.

CONTINENTAL EVENT 3
NOUGAT BOOMER

SPONSOR: LASL
2130Z 1 Oct 61
Hole U3aa, Area 3, NTS
Depth: 330 ft.

Deleted

H. E. SYSTEM

PEX 9010
PEX 9404

DIMENSIONS:

Max. Dia.: 10.9 in.
Length : 14.9 in.

Deleted

SIGNIFICANCE:

Results were about as expected.

Deleted

SPONSOR: LRL
1800Z 10 Oct 61
Tunnel U125.04, Area 12, NTS
Depth: Slant 1220 ft, Overburden 838 ft.

CONTINENTAL EVENT 4
NOUGAT CHENA

Deleted

H. E. SYSTEM

70X 2304

DIMENSIONS:

Max. Dia.: 13.6 in.
Length : 33.2 in.
Weight : 156 lb.

Deleted

Deleted

CONTINENTAL EVENT 5
NOUGAT MINK

SPONSOR: LASL
1830Z 29 Oct 61
Hole U3ae, Area 3, NTS
Depth: 630 ft.

Deleted

H. E. SYSTEM

PBX 9010
PBX 9404

DIMENSIONS:

Max. Dia.: 15.3 in.
Length : 17.9 in.
Weight : 88.6 lb.

Deleted

Deleted

SPONSOR: LASL
2305Z 3 Dec 61
Hole U3sh, Area 3, NTS
Depth: 1193 ft.

CONTINENTAL EVENT 6
NOUGAT FISHER

Deleted

H.E. SYSTEM

PBX 9010
PBX 9404

Deleted

DIMENSIONS:

Max. Dia.: 15.3 in.
Length : 17.9 in.
Weight : 66.3 lb.

Deleted

[REDACTED]

CONTINENTAL EVENT 7
PLOWSHARE Project GNOME
[REDACTED]

SPONSOR: LRL
1900Z 10 Dec 61
Carlsbad, N. M.
Tunnel Depth: 1200 ft.

Deleted

H. E. SYSTEM:

[REDACTED]
PBX 9404
[REDACTED]

DIMENSIONS:

Max. Dia.: 41.5 in.
Length : 31.5 ft.
Weight : 10,435.60 lb.

Deleted

REMARKS:

The first nuclear test of the PLOWSHARE program designed to evaluate energy containment in an underground salt cavity. |

Deleted

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SPONSOR: LRL
1800Z 13 Dec 61
Hole U9a, Area 9, NTS
Depth: 594 ft.

CONTINENTAL EVENT 8
NOUGAT MAD

Deleted

H. E. SYSTEM

PBX 9404

Deleted

DIMENSIONS:

Max. Dia.: 11.57 in.
Length : 12.27 in.
Weight : 63.9 lb.

Deleted

[REDACTED] [REDACTED]

CONTINENTAL EVENT 9
NOUGAT RINGTAIL
[REDACTED]

SPONSOR: LASL
1635Z 17 Dec 61
Hole U3ak, Area 3, NTS
Depth: 1191 ft.

Deleted

H. E. SYSTEM

[REDACTED]
PEX 9010
PEX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 10.9 in.
Length : 14.9 in.
[REDACTED]

Deleted

[REDACTED]

SPONSOR: LRL

1630Z 22 Dec 61

Tunnel U12b.06 Area 12, NTS

Depth: Slant 1300 ft, Overburden 812 ft.

[REDACTED]

CONTINENTAL EVENT 10
NOUGAT FEATHER
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

[REDACTED]

Deleted

[REDACTED] [REDACTED]

CONTINENTAL EVENT 11
NOUGAT STOAT
[REDACTED]

SPONSOR: LASL
1630Z 9 Jan 62
Hole U3ap, Area 3, NTS
Depth: 992 ft.

Deleted

H.E. SYSTEM
[REDACTED]

PBX 9404
[REDACTED]

DIMENSIONS:

Device Dia.: -15 in.
Weight : 51.4 lb.

Deleted

Deleted

SIGNIFICANCE:

The test confirmed the expected performance

Deleted

SPONSOR: LASL
1800Z 18 Jan 62
Hole U300, Area 3, NTS
Depth: 856 ft.

CONTINENTAL EVENT 12
NOUGAT AGOUTI

Deleted

II. E. SYSTEM

PBX 9404

DIMENSIONS:

Device Dia.: ~15 in.
Weight : 56.7 lb.

Deleted

Deleted

Deleted

CONTINENTAL EVENT 13
NOUGAT DORMOUSE

SPONSOR: LASL
1800Z 30 Jan 62
Hole U3aq, Area 3, NTS
Depth: 1191 ft.

Deleted

H.E. SYSTEM

PEX 9010
PEX 9404

Deleted

DIMENSIONS:

Max. Dia.: 15.3 in.
Length : 17.9 in.
Weight : 79.0 lb.

Deleted

SIGNIFICANCE:

The device performed about as expected;

Deleted

[REDACTED]

SPONSOR: LRL
1800Z 8 Feb 62
Hole U9c, Area 9, NTS
Depth: 625 ft.

[REDACTED]

CONTINENTAL EVENT 14
NOUGAT STILLWATER

[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9404

[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.:	11.57 in.
Length :	12.27 in.
Weight :	63.90 lb.

Deleted

Deleted

CONTINENTAL EVENT 15
NOUGAT ARMADILLO
[REDACTED]

SPONSOR: LASL
1800Z 9 Feb 62
Hole U3ar, Area 3, NTS
Depth: 786 ft.

Deleted

H. E. SYSTEM

[REDACTED]
PEX 9404
[REDACTED]

Deleted

DIMENSIONS:

Device Dia.: 15 in.
Weight: 61.5 lb.

Deleted

SPONSOR. DOD
1800Z 15 Feb 62
hole U15a, Area 15, NTS
Depth: 943 ft.

CONTINENTAL EVENT 16
NOUGAT HARDHAT

Deleted

H. E. SYSTEM

Baratol
Composition B
Cyclotol 75/25

DIMENSIONS:

Max. Dia.:	31.75 in.
Length :	143.50 in.
Weight :	5444 lb.

Deleted

Deleted

SIGNIFICANCE:

The technical objectives of the experiment were fulfilled.

[REDACTED] [REDACTED]

CONTINENTAL EVENT 17
NOUGAT CHINCHILLA 1
[REDACTED]

SPONSOR: LASL
1630Z 19 Feb 62
Hole U3ag, Area 3, NTS
Depth: 492 ft.

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

DIMENSIONS:

Max. Dia.: 15 in.
Length : 15.5 in.
Weight : 61.7 lb.

Deleted

Deleted

SIGNIFICANCE:

The device performed about as expected giving the proper yield

Deleted

[REDACTED]

SPONSOR: LRL
1750Z 19 Feb 62
Hole U9g, Area 9, NTS
Depth: 696 ft.

CONTINENTAL EVENT 18
NOUGAT CODSAW
[REDACTED]

Deleted

H. E. SYSTEM:

[REDACTED]
PBX 9404
[REDACTED]

DIMENSIONS:

.. Max. Dia.:	11.57 in.
Length :	28.31 in.
Weight :	96.5 lb.

Deleted

Deleted

CONTINENTAL EVENT 19
NOUGAT CIMARRON

SPONSOR: LRL
1800Z 23 Feb 62
Hole U9h, Area 9, NTS
Depth: 1000 ft.

Deleted

H. E. SYSTEM

PBX 9404

DIMENSIONS:

Max. Dia.: 11.53 in.
Length : 14.25 in.
Weight : 86.46 lb.

Deleted

Deleted

SIGNIFICANCE:

The device performed as expected

Deleted

[REDACTED]

SPONSOR: LASL
1630Z 24 Feb 62
Hole U3ad, Area 3, NTS
Depth: 190 ft.

[REDACTED]

CONTINENTAL EVENT 20
NOUGAT PLATYPUS
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9010
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

[REDACTED]

Length : 14.9 in.

Deleted

[REDACTED] [REDACTED]

CONTINENTAL EVENT 21
NOUGAT PAMPAS
[REDACTED]

SPONSOR: LASL/UK
1910Z 1 Mar 62
Hole U3a1, Area 3, NTS
Depth: 1191 ft.

Deleted

Deleted

[REDACTED]

SPONSOR: LRL
1815Z 5 Mar 62
Hole U16a, Area 18, NTS
Depth: 110 ft.

CONTINENTAL EVENT 22
NOUGAT DANNY BOY
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 13.82 in.
Length : 16.5 in.
Weight : 115.94 lb.

YIELD:

Achieved: [REDACTED]
[REDACTED]

0.42 ± 0.04 KT

REMARKS:

Designed to determine the seismic shock, air blast, cratering capabilities and the amount, distribution and decay rate of the radioactivity released from a detonation at a near optimum depth of burst in a hard medium. The medium in this event was a basalt, (a hard, dry, non-carbonate medium).

SIGNIFICANCE:

The technical objectives of this experiment were fulfilled and desired data obtained.

[REDACTED]

[REDACTED] [REDACTED]

CONTINENTAL EVENT 23
NOUGAT ERMINE
[REDACTED]

SPONSOR: LASL
1630Z 6 Mar 62
Hole U3ab, Area 3, NTS
Depth: 240 ft.

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Device Dia.: - 15 in.
Length : 15.5 in.
Weight : 60.4 lb.

Deleted

[REDACTED]

[REDACTED]

SPONSOR: LRL
1800Z 8 Mar 62
Hole U9d, Area 9, NTS
Depth: 841 ft.

CONTINENTAL EVENT 24
NOUGAT BRAZOS
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.:	12.71 in.
Length :	12.71 in.
Weight :	61.47 lb.

Deleted

SIGNIFICANCE:

The performance of this [REDACTED] system was proven and the desired yield obtained.

CONTINENTAL EVENT 25
NOUGAT HOGNOSE
[REDACTED]

SPONSOR: LASL
1630Z 15 Mar 62
Hole U3al, Area 3, NTS
Depth: 789 ft.

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: - 14.5 in.
Length : 25.4 in.
Weight : 118 lb.

Deleted

[REDACTED]

SPONSOR: LRL
1800Z 28 Mar 62
Hole U9j, Area 9, NTS
Depth: 614 ft.

[REDACTED]

CONTINENTAL EVENT 26
NOUGAT HOOSIC
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 11.57 in.
Length : 28.19 in.

Deleted

CONTINENTAL EVENT 27
NOUGAT CHINCHILLA II

SPONSOR: LASL
1800Z 31 Mar 62
Hole U3as, Area 3, NTS
Depth: 448 ft.

Deleted

H. E. SYSTEM

PBY 9404

Deleted

DIMENSIONS:

Device Dia.: 15 in.
Length : 15.5 in.
Weight : 63.1 lb.

Deleted

SIGNIFICANCE:

The yield confirmed the performance

Deleted

[REDACTED]

SPONSOR: LASL
1800Z 5 Apr 62
Hole U3az, Area 3, NTS
Depth: 856 ft.

CONTINENTAL EVENT 28
NOUGAT DORMOUSE Prime

[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9010
PBX 9404

[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.:	15.3 in.
Length :	17.9 in.
Weight :	88.8 lb.

Deleted

[REDACTED]

CONTINENTAL EVENT 29
NOUGAT PASSAIC

SPONSOR: LRL
1800Z 6 Apr 62
Hole U91, Area 9, NTS
Depth: 764 ft.

Deleted

H. E. SYSTEM

PEX 9404

Deleted

DIMENSIONS:

Max. Dia.:	18	in.
Length :	35.95	in.
Weight :	253.33	lb.

Deleted

[REDACTED]

SPONSOR: LRL
1800Z 12 Apr 62
Hole U9n, Area 9, NTS
Depth: 480 ft.

CONTINENTAL EVENT 30
NOUGAT HUDSON
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 11.57 in.
Length : 28.19 in.

Deleted

CONTINENTAL EVENT 31
NOUGAT PLATTE

SPONSOR: LRL
1800Z 14 Apr 62
Tunnel U12k.01, Area 12, NTS
Depth: Slant 560 ft., Overburden 628 ft.

Deleted

H. E. SYSTEM

PBX 9404

Deleted

DIMENSIONS:

Max. Dia.: 26 in.
Length : 23 in.
Weight : 259.29 lb.

Deleted

[REDACTED]

SPONSOR: LRL
1640Z 21 Apr 62
Hole U9k, Area 9, NTS
Depth: 634 ft.

CONTINENTAL EVENT 32
NOUGAT DEAD
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 16.75 in. [REDACTED]

Length : 34.03 in.

Weight : 252.82 lb.

Deleted

[REDACTED]

[REDACTED] [REDACTED]

CONTINENTAL EVENT 33
NOUGAT BLACK
[REDACTED]

SPONSOR: LRL
1800Z 27 Apr 62
Hole U9p, Area 9, NTS
Depth: 714 ft.

Deleted

H. E. SYSTEM
[REDACTED]

PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 13.1 in.
Length : 29.14 in.
Weight : 257.42 lb.

Deleted

[REDACTED]

[REDACTED]

SPONSOR: LASL
1933Z 7 May 62
Hole U3ax, Area 3, NTS
Depth: 846 ft.

CONTINENTAL EVENT 34
NOUGAT PACA
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

DIMENSIONS:

Max. Dia.: 16.25 in.
Length : - 25 in.
[REDACTED]

Deleted

Deleted

[REDACTED]

CONTINENTAL EVENT 35
NOUGAT ARIKABEE

SPONSOR: LRL
1500Z 10 May 62
Hole U9r, Area 9, NTS
Depth: 549 ft.

Deleted

H. E. SYSTEM:

PK 9404

Deleted

DIMENSIONS:

Max. Dia.: 11.57 in.
Length : 57.3 in.
Weight : 313.7 lb.

Deleted

[REDACTED]

SPONSOR: LASL
1900Z 12 May 62
Hole U3ams, Area 3, NTS
Depth: 1424 ft.

CONTINENTAL EVENT 36
NOUGAT AARDVARK
[REDACTED]

Deleted

H. E. SYSTEM
[REDACTED]

DIMENSIONS:

Max. Dia.: 8 in.
Length : 37 in.
Weight : 200 lb.

Deleted

Deleted

SIGNIFICANCE:

The successful test provided information for the design
also provided data useful in the design

Deleted

[REDACTED] [REDACTED]

CONTINENTAL EVENT 37
NOUGAT EEL
[REDACTED]

SPONSOR: LRL
1500Z 19 May 62
Hole U9m, Area 9, NTS
Depth: 714 ft.

Deleted

H. E. SYSTEM
[REDACTED]
[REDACTED]

PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 15.83 in.
Length : 33.57 in.

Deleted

SIGNIFICANCE:

The success of this event provided data

Deleted

[REDACTED]

SPONSOR: LRL
1500Z 25 May 62
Hole U9b, Area 9, NTS
Depth: 635 ft.

CONTINENTAL EVENT 38
NOUGAT WHITE

Deleted

H. E. SYSTEM

LX-040

Deleted

DIMENSIONS:

Max. Dia.:	11.05 in.
Length :	30.23 in.
Weight :	189.43 lb.

Deleted

CONTINENTAL EVENT 39
NOUGAT RACCOON
[REDACTED]

SPONSOR: LASL
1700Z 1 Jun 62
Hole U3ajs, Area 3, NTS
Depth: 539 ft.

Deleted

H. E. SYSTEM
[REDACTED]

PBX 9010

PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 15.3 in.
Length : 17.9 in.
Weight : 88.7 lb.

Deleted

SIGNIFICANCE:

The device performed about as expected;

Deleted

Deleted

[REDACTED]

SPONSOR: LASL
1700Z 6 Jun 62
Hole U3aw, Area 3, NTS
Depth: 860 ft.

CONTINENTAL EVENT 40
NOUGAT PACKRAT
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9010
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 15.3 in.
Length : 17.9 in.
Weight : 88.2 lb.

Deleted

SIGNIFICANCE:

The test was successful.

Deleted

Deleted

[REDACTED]

CONTINENTAL EVENT 41
NOUGAT DES MOINES
[REDACTED]

SPONSOR: LRL
2200Z 13 Jun 62
Tunnel U12j.01, Area 12, NTS
Depth: Slant 610 ft., Overburden 660 ft.

Deleted

H. E. SYSTEM
[REDACTED]

PRX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 25.88 in.
Length : 29.97 in.

Deleted

[REDACTED]

[REDACTED]

SPONSOR: LASL
1700Z 21 Jun 62
Hole U3be, Area 3, NTS
Depth: 854 ft.

CONTINENTAL EVENT 42
NOUGAT DAMAN I
[REDACTED]

Deleted

H.E. SYSTEM
[REDACTED]

PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 17 in.
Weight : 80.1 lb.

Deleted

SIGNIFICANCE:

The device performed satisfactorily.

Deleted

Deleted

[REDACTED]

CONTINENTAL EVENT 43
NOUGAT HAYMAKER
[REDACTED]

SPONSOR: LASL
1800Z 27 Jun 62
Hole U3aus, Area 3, NTS
Depth: 1340 ft.

Deleted

H.E. SYSTEM

[REDACTED]
Cyclotol 75/25
Composition B
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 22.8 in.
Weight : 371.19 lb.

Deleted

SPONSOR: LRL
1700Z 28 Jun 62
Tunnel U16a, Area 16, NTS
Depth: Slant 900 ft., Overburden 1050 ft.

CONTINENTAL EVENT 44
NOUGAT MARSHMALLOW

Deleted

H. E. SYSTEM

PEX 9404

DIMENSIONS:

Max. Dia.: 13.0 in.
Length : 17.45 in.
Weight : 194.98 lb.

Deleted

Deleted

SIGNIFICANCE:

The technical objectives of the test were fulfilled and device performance was about as predicted.

[REDACTED] [REDACTED]

CONTINENTAL EVENT 45
NOUGAT SACRAMENTO
[REDACTED]

SPONSOR: LRL
2130Z 30 Jun 62
Hole U9v, Area 9, NTS
Depth: 500 ft.

Deleted

H. E. SYSTEM
[REDACTED]

LX-040
[REDACTED]

DIMENSIONS:

Max. Dia.: 11.38 in.
Length : 26.40 in.

Deleted

Deleted

[REDACTED]

SPONSOR: LRL
1700Z 6 Jul 62
Hole U10h, Area 10, NTS
Depth: 635 ft.

CONTINENTAL EVENT 46
PLOWSHARE SEDAN
[REDACTED]

Deleted

Deleted

H. E. SYSTEM

[REDACTED]
YBX 9404
[REDACTED]

DIMENSIONS:

Max. Dia.: 17.1 in.
Length : 38.0 in.
Weight : 467.9 lb.

YIELD:

Predicted: [REDACTED]
Achieved: [REDACTED]

Total: 100 ± 15 KT

REMARKS:

The primary objective of this PLOWSHARE event was to obtain data concerning cratering, radioactivity distribution, and sealing factors for a relatively clean underground nuclear detonation in the 100 KT yield range. /

Deleted

SIGNIFICANCE:

Technical objectives of the experiment were fulfilled.

[REDACTED]

CONTINENTAL EVENT 47
DOMINIC II LITTLE FELLER II

SPONSOR: DOD
1900Z 7 Jul 62
Area 18, NTS
Height, 3 ft above surface

Deleted

H. E. SYSTEM

PBX 9010

PBX 9404

Deleted

DIMENSIONS:

Max. Dia.: 10.9 in.
Length : 15.7 in.
Weight : 50 lb.

Deleted

SIGNIFICANCE:

Effects data were obtained.

[REDACTED]

SPONSOR: DOD
1645Z 11 Jul 62
Area 18, NTS
Depth: 23 in. [REDACTED]

CONTINENTAL EVENT 48
DOMINIC II JOHNEE BOY
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
Cyclotor 75/25
Composition B
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 22 in.
Length : 46.5 in.
Weight : 435 lb.

REMARKS:

A test to determine the effects

Deleted

surface. Primary interest was in cratering and ground shock. The technical features of the experiment were similar to those of DANNY BOY (event 22).

buried slightly below the

SIGNIFICANCE:

Effects data were obtained.

[REDACTED]

[REDACTED]

CONTINENTAL EVENT 49
DOMINIC II (SUNBEAM) SMALL BOY
[REDACTED]

SPONSOR: DOD
1830Z 14 Jul 62
Area 5, NTS
Height 10 ft.

Deleted

H.E. SYSTEM

[REDACTED]
PEX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 15 in.
Length : 15.5 in.
Weight : 63.9 lb.

REMARKS:

Conducted an Operation SUNBEAM event; however, because of its timeliness, the event was included as a part of the DOMINIC II series.

Deleted | The device was positioned on a wooden platform.

SIGNIFICANCE:

Technical objectives of the experiment were fulfilled.

[REDACTED]

SPONSOR: DOD
1700Z 17 Jul 62
Area 18, NTS
Height: 3 ft. above surface

CONTINENTAL EVENT 50
DOMINIC J. LITTLE PELLER I

[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9010
PBX 9404

[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.:	10.9 in.
Length :	15.7 in.
Weight :	50 lb.

REMARKS:

Deleted test in conjunction with a tactical field exercise conducted by a reinforced rifle company. The field exercise portion of the test was Exercise IVY PLATS.

SIGNIFICANCE:

Effects and cratering data were obtained. The field exercise was successfully conducted.

[REDACTED]

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SECTION III

Tests Conducted in the
Pacific Ocean Area

[REDACTED]

PACIFIC EVENT 1
DOMINIC ADOBE

[REDACTED]

SPONSOR: LASL
1546Z 25 Apr 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 2900 ft.

Deleted

H. E. SYSTEM

[REDACTED]

PEX 9010
PEX 9404

[REDACTED]

Deleted

DIMENSIONS:

	<u>Warhead</u>
Dia. :	15.4 in. (max)
Length :	44 in.
Weight :	409 lb.

Drop Case Mk 39 Mod 1 Type 3

REMARKS:

Deleted
cover which obscured the target area.

No fireball pictures were obtained because of cloud

Deleted

[REDACTED]

SPONSOR: LASL
1602Z 27 Apr 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 2610 ft.

PACIFIC EVENT 2
DOMINIC AZTEC
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9010
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Dia.	:	[REDACTED]	Warhead
Length	:	[REDACTED]	15.4 in.(max.)
Weight	:	[REDACTED]	44 in.
	:	[REDACTED]	- 409 lb.

Drop Case Mk 39 Mod 1 Type 3

Deleted

[REDACTED]

PACIFIC EVENT 3
DOMINIC ARKANSAS

SPONSOR: LRL
1802Z 2 May 62
GZ 15, Christmas Island Test Area
Air Drop, HOB 5030 ft.

Deleted

H. E. SYSTEM

PEX 9404

DIMENSIONS

	<u>Warhead</u>
Max. Dia.:	17.36 in.
Length:	47.30 in.
Weight:	600 lb.
Drop Case Mk 36 (modified)	

Deleted

REMARKS:

The device was mounted in a [REDACTED] within a Mk 36 bomb case

SIGNIFICANCE:

The highly successful performance of this device confirmed design calculations

Deleted

[REDACTED] [REDACTED]

SPONSOR: LASL

1905Z 4 May 62

GZ 15, Christmas Island Test Area

Air Drop, HOB 5230 ft.

PACIFIC EVENT 4

DOMINIC QUESTA
[REDACTED]

Deleted

H.E. SYSTEM

[REDACTED]
PBX 9010

PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Dia. :

Length :

Weight :

Drop Case Mk 39 Mod 1 Type 3

Warhead

15.75 in.(max.)

47.8 in.

552 lb.

Deleted

[REDACTED]

[REDACTED] [REDACTED]

PACIFIC EVENT 5
DOMINIC FRIGATE BIRD
Mk 47 (POLARIS System Test)

SPONSOR: LRL
2330Z 6 May 62
Johnston Island Danger Area
POLARIS Missile Launch, [REDACTED]

NO
Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Dia :

Warhead

18.0 in.

19.9 in. (aft flare)

Length :

46.6 in.

Weight :

- 717 lb.

Deleted

Test Vehicle: POLARIS Mk 1 re-entry system

REMARKS:

A weapon system test of a POLARIS A-1 missile utilizing the Mk-1 re-entry system fired from the nuclear submarine Ethan Allen. [REDACTED]

SIGNIFICANCE:

The systems test was satisfactory with a satisfactory yield of warhead.

[REDACTED]

[REDACTED] [REDACTED]

SPONSOR: LRL
1801Z 8 May 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 2680 ft.

PACIFIC EVENT 6
DOMINIC YUKON
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 11.57 in.
Length : 28.06 in.
Weight : [REDACTED]
Drop Case Mk 36

Deleted

[REDACTED]

[REDACTED]

PACIFIC EVENT 7
DOMINIC MESILLA
[REDACTED]

SPONSOR: LASL
1701Z 9 May 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 2450 ft.

Deleted

H. E. SYSTEM
[REDACTED]

PEX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 16.5 in.
Length : 26.4 in.
Weight : [REDACTED]
Drop Case Mk 15 Mod O Type 3

Deleted

[REDACTED]

SPONSOR: LRL
1537Z 11 May 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 2995 ft.

PACIFIC EVENT 8
DOMINIC MUSKEGON
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PEX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 11.57 in.
Length : 26.96 in.
Weight :
Drop Case Mk 36

Deleted

Deleted

SIGNIFICANCE:

The device performed as predicted.

PACIFIC EVENT 9
DOMINIC SWORDFISH
Mk 44 (ASROC System Test)

SPONSOR: DOD
2002Z 11 May 62
- 400 miles west of San Diego, Calif.
Underwater burst, [REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PEX 9010
PEX 9404
[REDACTED]

DIMENSIONS:

Dia. :	[REDACTED]	<u>Warhead</u>	
Length:	[REDACTED]		13.75 in.
Weight:	[REDACTED]		25.30 in.
			160 lb.

Deleted

REMARKS:

A test of the ASROC weapon system. The shot area was instrumented to obtain data on shock and radiological effects to surface and submerged vessels at various ranges. Ocean depth was about 2850 fathoms.

Deleted

SIGNIFICANCE:

Data were obtained pertaining to the employment of the ASROC system.

Deleted

[REDACTED]

SPONSOR: LASL
1703Z 12 May 62
GZ 12, Christmas Island Test Area
Air Drop, HOB 5510 ft.

PACIFIC EVENT 10
DOMINIC ENCINO
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9010
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Dia.	:	[REDACTED]	<u>Bomb</u>	18 in.
Length	:	[REDACTED]		149.5 in.
Weight	:	[REDACTED]		2060 lb.

Drop Case Mk 15 Mod 0 Type 3

Deleted

[REDACTED]

PACIFIC EVENT 11
DOMINIC SWANEE
[REDACTED]

SPONSOR: LRL
1522Z 14 May 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 2940 ft.

Deleted

H. E. SYSTEM
[REDACTED]
PBX 9404 [REDACTED]
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 17.13 in.
Length : 36.00 in.
Weight : 506 lb.
Drop Case Mk 36

Deleted

[REDACTED] [REDACTED]

SPONSOR: LRL
1537Z 19 May 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 6905 ft.

PACIFIC EVENT 12
DOMINIC CHETOO
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PEX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 11.57 in.
Length : 28.06 in.
Weight : [REDACTED]
Drop Case Mk 36

Deleted

[REDACTED]

PACIFIC EVENT 13
DOMINIC TANANA

SPONSOR: LRL
1609Z 25 May 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 9030 ft.

Deleted

H. E. SYSTEM

PBX 9404

Deleted

DIMENSIONS:

Max. Dia.: 19.62 in.
Length : 37.45 in.
Weight : 153.57 lb.
Drop Case Mk 36

Deleted

SPONSOR: LASL
1703Z 27 May 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 7140 ft.

PACIFIC EVENT 14
DOMINIC NAMBE
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9010
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Dis. : 11.87 in.
Length : 31.58 in.
Weight : [REDACTED]
Drop Case Mk 15 Mod O Type 3

Deleted

[REDACTED]

PACIFIC EVENT 15
DOMINIC ALMA
[REDACTED]

SPONSOR: LASL
1703Z 8 Jun 62
GZ 15, Christmas Island Test Area
Air Drop, HOB 8865 ft.

Deleted

H. E. SYSTEM

[REDACTED]
PEX 9010
PEX 9404
[REDACTED]

Deleted

DIMENSIONS:

	<u>Warhead</u>
Dia. . .	15.75 in.
Length:	47.8 in.
Weight:	553 lb.
Drop Case Mk 39 Mod O Type 3	

Deleted

SIGNIFICANCE:

The device performed as expected

Deleted

[REDACTED]

[REDACTED]

SPONSOR: LRL
1537Z 9 Jun 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 6970 ft.

PACIFIC EVENT 16
DOMINIC TRUCKEE
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
LX-04-J
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: [REDACTED]
Length : [REDACTED]
Weight : [REDACTED]
Drop Case Mk 36

Warhead

15.6 in.
40.37 in.
257 lb.

Deleted

[REDACTED]

[REDACTED]

PACIFIC EVENT 17
DOMINIC YESO
[REDACTED]

SPONSOR: LASL
1601Z 10 Jun 62
GZ 20, Christmas Island Test Area
Air Drop, HOB 8325 ft.

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9010
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 27.0 in.
Length : 48.3 in.
Weight : 1567 lb.
Drop Case Modified Mk 39

Deleted

SIGNIFICANCE:

The device performed as expected

Deleted

Deleted

[REDACTED]

SPONSOR: LRL
1537Z 22 Jun 62
GZ 17, Christmas Island Test Area
Air Drop, HOB 13, 645 ft.

PACIFIC EVENT 18
DOMINIC HARLEM

[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9404

[REDACTED]

Deleted

DIMENSIONS:

Dia. :

Warhead

18.0 in.

19.9 in. (aft flare)

Length :

46.6 in.

Weight :

733 lb.

Drop Case Mk 36

Deleted

SIGNIFICANCE:

The satisfactory results of this test

Deleted

Deleted

[REDACTED]

PACIFIC EVENT 19
DOMINIC RINCONADA
[REDACTED]

SPONSOR: LASL
1601Z 15 Jun 62
GZ 17, Christmas Island Test Area
Air Drop, HOB 9105 ft.

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9010
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Dia.: 15.75 in.
Length: 39.82 in.
Weight: 507.4 lb.
Drop Case Mk 15 Mod 2 Type 3

Deleted

SIGNIFICANCE:

The device performed satisfactorily.

Deleted

Deleted

[REDACTED]

SPONSOR: LASL
1601Z 17 Jun 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 9090 ft.

PACIFIC EVENT 20
DCMINIC DULCE
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max: Dia.: 16.5 in.
Length : 28.4 in.
Weight : [REDACTED]
Drop Case Mk 15 Mod 2 Type 3

Deleted

SIGNIFICANCE:

The test demonstrated the effect
successful test.

Deleted

and was considered a

PACIFIC EVENT 21
DOMINIC PETIT

SPONSOR: LRL
1501Z 19 Jun 62
GZ 17, Christmas Island Test Area
Air Drop, HOB 14,995 ft.

Deleted

H. E. SYSTEM

PBX 9404

Deleted

DIMENSIONS:

Max. Dia.: 24.41 in.
Length : 63.29 in.
Weight : 498 lb.

Deleted

[REDACTED]

SPONSOR: LASL
1601Z 22 Jun 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 9010 ft.

PACIFIC EVENT 22
DOMINIC OTOWI
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 15.4 in.
Length : 42.7 in.
Weight : 166.1 lb.
Drop Case Mk 15 Mod 2 Type 3

Deleted

[REDACTED]

[REDACTED] [REDACTED]

PACIFIC EVENT 23
DOMINIC BIGHORN
[REDACTED]

SPONSOR: LRL
1519Z 27 Jun 62
GZ 30, Christmas Island Test Area
Air Drop, HOB 11,810 ft.

Deleted

H. E. SYSTEM

[REDACTED]
PEX 9010
PEX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 45.65 in.
Length : 96.18 in.
Weight : 4072.55 lb.
Drop Case Mk 36

Deleted

[REDACTED]

SPONSOR: LRL
1521Z 30 Jun 62
GZ 25, Christmas Island Test Area
Air Drop, HOB 4980 ft.

PACIFIC EVENT 24
DOMINIC BLUESTONE
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia. : 17.13 in.
Length : 38.00 in.
Weight : 564.32 lb.
Drop Case Mk 36

Deleted

[REDACTED]

[REDACTED]

PACIFIC EVENT 25
FISHBOWL STARFISH Prime
[REDACTED]

SPONSOR: DOD
0900Z 9 Jul 62
Johnston Island Test Area
High Altitude HOB 400.09 Km.

Deleted

H. E. SYSTEM

[REDACTED]
Composition B
Cyclotol 75/25
[REDACTED]

Deleted

DIMENSIONS:

	<u>Warhead</u>
Max. Dia.:	20 in.
Length :	54.3 in.
Weight :	1665 lb.

Test Vehicle Thor missile Mk 4 R/V

REMARKS:

The first of the FISHBOWL series of high altitude detonations

Deleted

SIGNIFICANCE:

The position of burst was as planned. Long range measurements of diagnostic data indicate that
[REDACTED] Technical objectives of the experiment were fulfilled.

[REDACTED] [REDACTED]
SPONSOR: LASL *deh nsh*

1633Z 10 Jul 62

GZ 17, Christmas Island Test Area
Air Drop, HOB 5000 ft.

PACIFIC EVENT 26
DOMINIC SUNSET
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PEX 9010

PEX 9404
[REDACTED]

DIMENSIONS:

Dia. : 15.75 in.

Length : 39.63 in.

Weight : 543 lb.

Drop Case Mk 15 Mod 2 Type 3

Deleted

Deleted

[REDACTED]

PACIFIC EVENT 27
DOMINIC PAMLICO
[REDACTED]

SPONSOR: LRL
1537Z 11 Jul 62
GZ 25, Christmas Island Test Area
Air Drop, HOB 14,330 ft.

Deleted

H. E. SYSTEM
[REDACTED]

PBX 9404
[REDACTED]

DIMENSIONS:

Max. Dia.: 56.2 in.
Length : 123.4 in.
Weight : 9161.67 lb.

Deleted

Deleted

SIGNIFICANCE:

The results confirmed theoretical predictions.

Deleted

Deleted
[REDACTED]

SPONSOR: LRL
1618Z 2 Oct 62
Johnston Island Test Area
Air Drop, HOB 10,260 ft.

PACIFIC EVENT 28
DOMINIC ANDROSCOGGIN

Deleted

H. E. SYSTEM

PBX 9404

Deleted

DIMENSIONS:

Max. Dia.: 56.2 in.
Length : 128.5 in.
Weight : 6647.52 lb.
Drop Case Mk 36

Deleted

[REDACTED]

PACIFIC EVENT 29
DOMINIC BUMPING

[REDACTED]

SPONSOR: LRL
1603Z 6 Oct 62
Johnston Island Test Area
Air Drop, HOB 10,000 ft

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9404

[REDACTED]

DIMENSIONS:

Max. Dia.: 39.37 in.
Length : 78.43 in.
Weight : 1155 lb.
Drop Case Mk 36

Deleted

Deleted

[REDACTED]

SPONSOR: LASL
1601Z 18 Oct 62
Johnston Island Test Area
Air Drop, HOB 11,970 ft.

PACIFIC EVENT 30
DOMINIC CHAMA
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9404
[REDACTED]

DIMENSIONS:

Max. Dia.: 27.96 in.
Length : 89.0 in.
Weight : 2350 lb.
Drop Case Mk 36 Mod 1

Deleted

Deleted

SIGNIFICANCE:

Deleted

obtained.

valuable design data were

PACIFIC EVENT 31
FISHBOWL CHECKMATE

SPONSOR: DOD
0830Z 20 Oct 62
Johnston Island Test Area
High Altitude 147.25 Km.

Deleted

H. E. SYSTEM

PBX 9010
PBX 9404

Deleted

<u>DIMENSIONS:</u>	<u>Warhead</u>
Dia.:	- 14 in.
Length:	- 20 in.
Weight:	- 150 lb.

Test Vehicle XM-33 missile

REMARKS:

A test of a nuclear burst at about 150 Km altitude. The warhead was carried to the burst point by a XM-33 missile.

SIGNIFICANCE:

The warhead detonated near the desired burst point and the principle objectives of the experiment were accomplished.

[REDACTED]

SPONSOR: DOD
1000Z 26 Oct 62
Johnston Island Test Area
High Altitude Shot, HOB 48.27 Km.

PACIFIC EVENT 32
FISHBOWL BLUEGILL Triple Prime
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
PBX 9010
PBX 9404
[REDACTED]

Deleted

<u>DIMENSIONS:</u>	<u>Warhead</u>
Max. Dia.:	15.4 in.
Length :	44 in.
Weight :	409 lb.
Test Vehicle Thor missile Mk 4	
Re-entry vehicle	

REMARKS:

A test to determine [REDACTED]

[REDACTED] from a nuclear burst at 50 Km altitude. The event was a refire of the BLUEGILL event. Three previous attempts had resulted in missile and warhead destruction prior to the nuclear burst.

SIGNIFICANCE:

The objectives of the experiment were achieved. The predicted yield is believed to have been achieved based on long range diagnostic measurements.

[REDACTED]

[REDACTED] [REDACTED]

PACIFIC EVENT 33
DOMINIC CALAMITY
[REDACTED]

SPONSOR: LRL
1546Z 27 Oct 62
Johnston Island Test Area
Air Drop. HOB 11,780 ft.

Deleted

H. E. SYSTEM
[REDACTED]

PBX 9404
[REDACTED]

" DIMENSIONS:

Max. Dia.: 34.4 in.
Length : 93.0 in.
Weight : 1830 lb.
Drop Case Mk 15

Deleted

Deleted

[REDACTED]

[REDACTED]

SPONSOR: LRL
1602Z 30 Oct 62
Johnston Island Test Area
Air Drop, HOB 12,130 ft.

PACIFIC EVENT 34
DOMINIC HOUSATONIC
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9404
[REDACTED]

Deleted

DIMENSIONS:

Max. Dia.: 56.2 in.
Length : 147.90 in.
Weight : 7139.55 lb.
Drop Case Mk 36

Deleted

SIGNIFICANCE:

The successful performance of this device provided data

Deleted

[REDACTED]

[REDACTED]

PACIFIC EVENT 35
FISHBOWL KINGFISH

[REDACTED]

SPONSOR: DOD
1210Z 1 Nov 62
Johnston Island Test Area
High Altitude Shot, HGB 97.24 Km.

Deleted

H. E. SYSTEM

[REDACTED]

PBX 9010
PBX 9404

[REDACTED]

Deleted

.. DIMENSIONS: Warhead
Max. Dia.: 15.4 in.
Length : 44 in.
Weight : -409 lb
Test Vehicle THOR missile Mk 4
Re-entry vehicle

REMARKS:

A test to determine

Deleted

Deleted
from a nuclear burst at 95 Km altitude.

SIGNIFICANCE:

The objectives of the experiment were fulfilled.

[REDACTED] [REDACTED]

SPONSOR: DOD
0730Z 4 Nov 62
Johnston Island Test Area
High Altitude Test, HOB 21.03 Km.

PACIFIC EVENT 36
FISHBOWL TIGHTROPE
[REDACTED]

Deleted

H. E. SYSTEM

[REDACTED]
Boracitol
Composition B
Cyclotoi

Deleted

DIMENSIONS: Warhead
Max. Dia.: 29 in.
Length : 39.3 in.
Weight : 900 lb.
Test Vehicle NIKE-HERCULES

REMARKS:

A test to study.

Deleted

a nuclear burst at 25 Km altitude.

SIGNIFICANCE:

The objectives of the experiment were fulfilled.

[REDACTED]

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APPENDIX A

Operation DOMINIC Drop Vehicles

A-1. GENERAL. During the planning for an atmospheric series of air-burst aircraft-delivered nuclear development tests, it became apparent that an external drop case common to a number of tests should be used. It was decided that such a ballistic case should meet the following requirements:

- a. Have known ballistic characteristics.
- b. Have adequate volume in which to package the largest device together with the fuze, firing set, and telemetry systems.
- c. Be compatible with standard Air Force handling equipment and the B-52 suspension systems.

A-2. DROP CASES FOR LASL DEVICES. In order to meet these general requirements for the ballistic cases, Mk 15/Mk 39 ballistic cases were used for all air drops of LASL devices with the exception of [REDACTED] the CHAMA event. The table below lists the material and thickness of the drop cases used for LASL events. The thicknesses listed are the nominal thickness of the central case section surrounding the test device.

CHARACTERISTICS OF TEST DEVICE DROP CASES

<u>CASE</u>	<u>MATERIAL</u>	<u>ID</u>	<u>THICKNESS</u>
Mk 15 Mod 0 Type 3	Cast Iron	29.13 in.	2.69 in.
Mk 15 Mod 0 Type 3 ^{1/}	Cast Iron	30.62 in.	1.88 in.
Mk 15 Mod 2 Type 3	Cast Iron	29.13 in.	2.69 in.
Mk 39 Mod 1 Type 3	Steel	32.04 in.	1.23 in.
Mk 36 Mod 1 ^{2/}	Al.	55.22 in.	0.50 in.

1/ Used for the ENCINO event

2/ Used for LASL sponsored CHAMA event

A-2.1 The warheads for the ADOBE, AZTEC, QUESTA, ALMA, RINCONADA, and SUNSET events were cantilevered in the main case of either a Mk 15 or a Mk 39 by attaching the warhead to a steel cone and fastening the cone to the aft bolt pattern previously used [REDACTED] was added between the warhead and the outer case for the ALMA, RINCONADA and SUNSET events. Figure 1 illustrates this type of warhead installation.

A-2.2 [REDACTED] (MESILLA, NAMBE, DULCE, and OTOWI events) were supported in low-density (6.24 lbs/cu ft) polyurethane foam cast into a one quarter inch thick stainless steel cylinder. A firing set housing containing the firing set was attached to the steel cylinder. A [REDACTED] was added between the device and the cylinder and between the cylinder and the outer case in the NAMBE, DULCE, and OTOWI events. Figure 2 is illustrative

of these installations.

A-2.3 For the ENCINO event.

A support stud was installed in the nose of a Mk 15 Mod 0 Type 3 case. and the aft steel support plate was attached to the aft bolt pattern of the B15-0 case.

A-2.4 tested in the YESO event was supported in an aluminum warhead cylinder filled with polyurethane foam having a density of 6.24 pounds per cubic foot.

The ballistic case was made up of a Mk 15 Mod 2 nose section with additional ballast, a one-half inch thick aluminum cylinder surrounding and the aft portion of a Mk 39B center case section. The firing system housing was attached to the aft end of the warhead cylinder.

A-2.5 A Mk 36 Mod 1 bomb case was used for the CHAMA event. device was encased in a one quarter inch thick steel cylinder filled with polyurethane foam.

A flange at each end of the cylinder was bolted to the Mk 36 case. The central section of the Mk 36 case was modified by removing material from the inside to a nominal 0.50 inch thickness. Figure 3 illustrates the configuration mounted in the Mk 36 case.

A-3. DROP CASES FOR LRL DEVICES. Drop cases used by LRL in DOMINIC were Mk 36 cases in which the device was normally supported by a mounting ring and support brackets near the center of gravity of the device. Modification to the Mk 36 case consisted of installing mounting brackets for diagnostic equipment, preheat shields, telemetry, and ballasting the nose to improve ballistics.

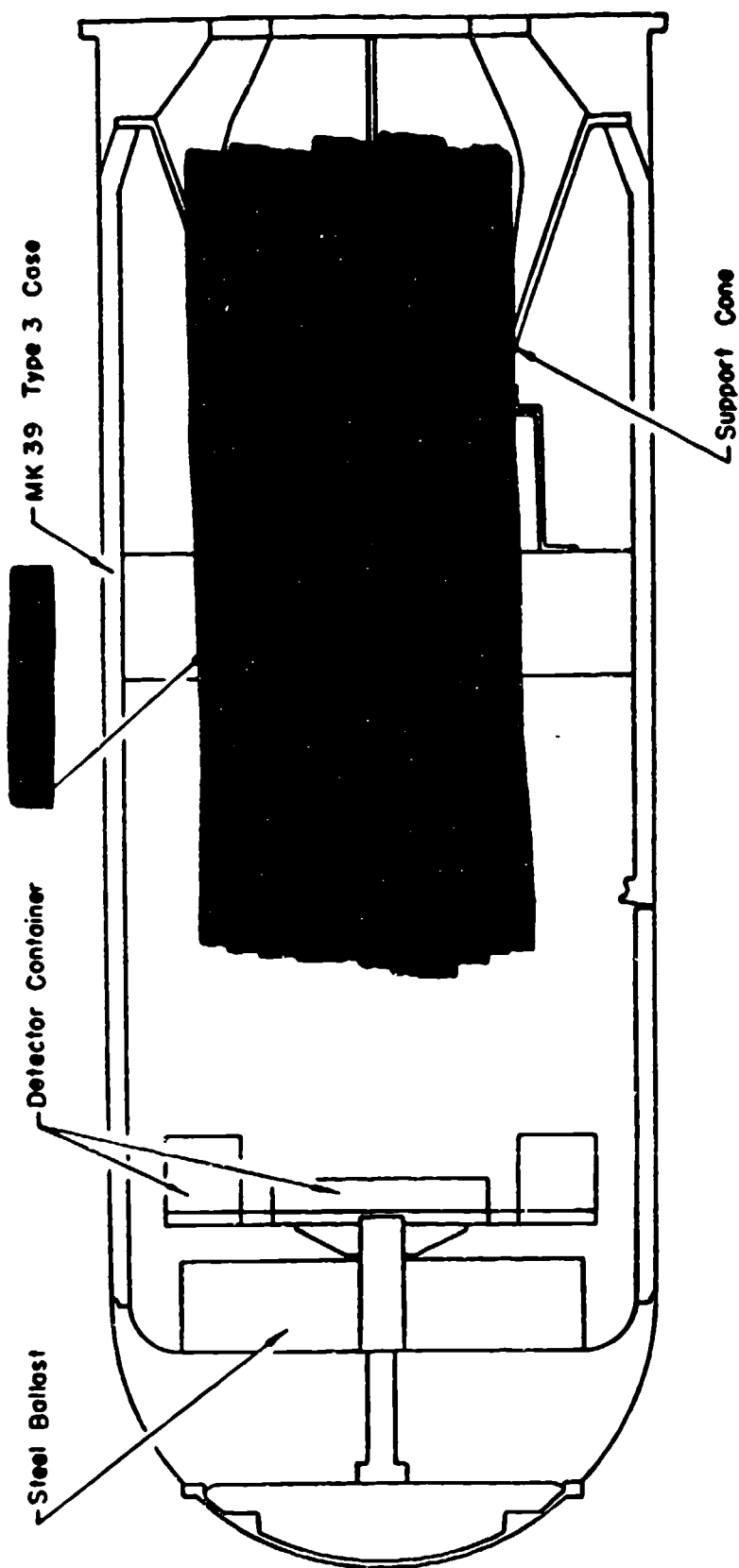


Figure 1 Typical Configuration of [REDACTED] Test Devices in the Mk 39 Case

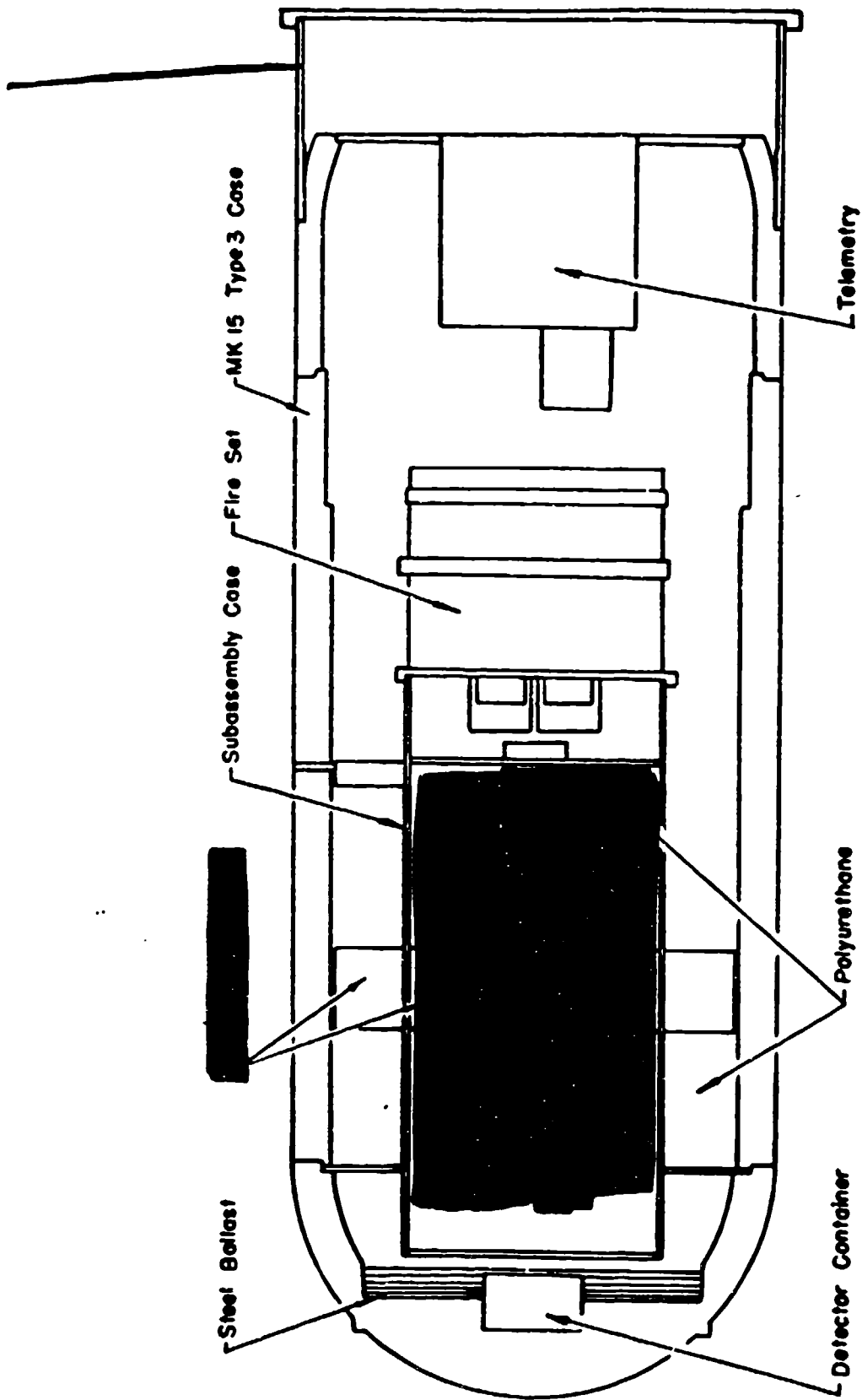


Figure 2 Typical Configuration of [REDACTED] Test Devices in the Mk 15 Drop Case

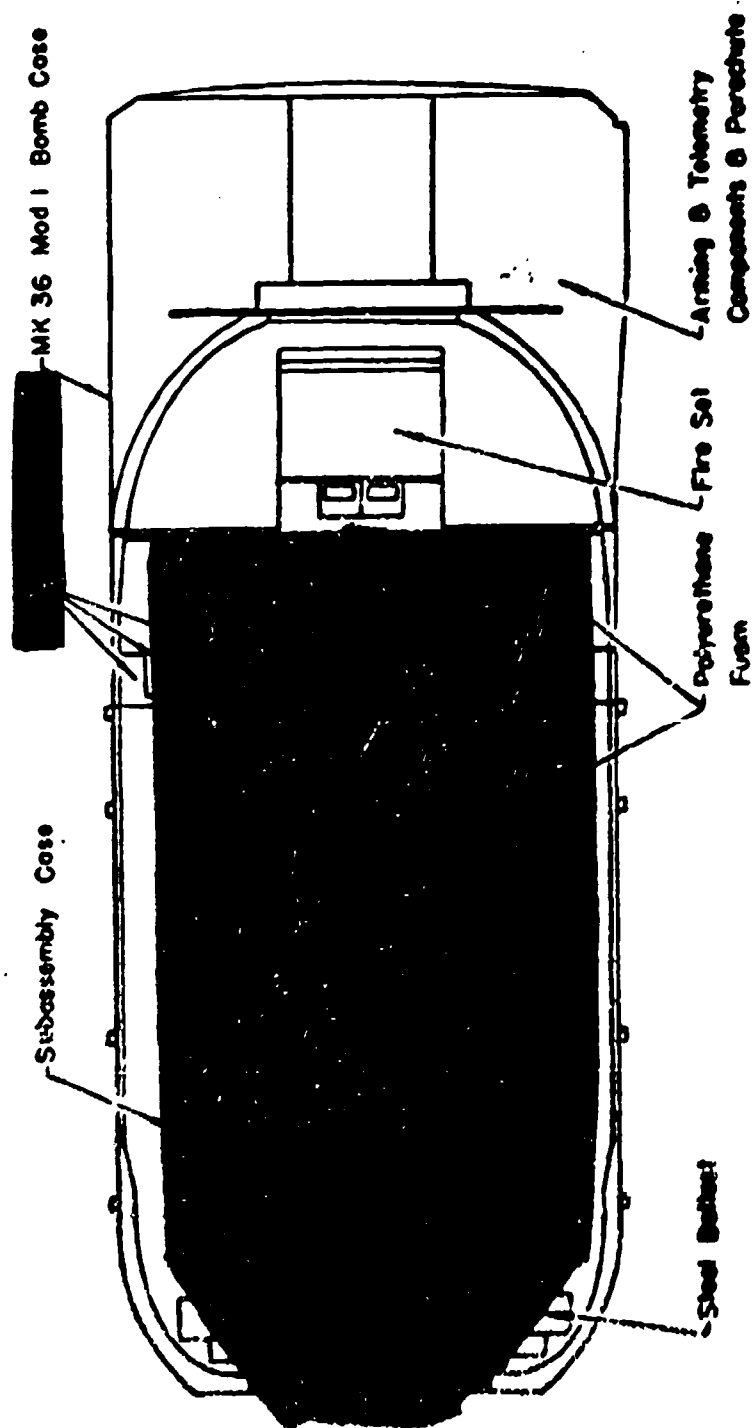


Figure 3 Configuration of CHAMA Test Device in Mk 36 Case

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APPENDIX B

TIMES AND LOCATIONS OF EVENTS

SHOT NUMBER	EVENT	DEVICE	YIELD (KT)	TIME 1/ (GCT)	DATE	SITE	DEPTH ^{2/} (n)	LATITUDE (N)	LONGITUDE (W)
CONTINENTAL EVENTS									
1.	ANTLER			1700:00.121	15 Sep 61	U12e.03a NTS	1319 (1570)	37°11'16.6430"	116°12'27.9248"
2.	SHREW			1945:00.1205	16 Sep 61	U3ac	322	37°02'54.4373"	116°01'29.5908"
3.	BOOMER			2130:00.1225	1 Oct 61	U3aa	330	37°02'54.0304"	116°02'04.2350"
4.	CHENA			1800:00.125	10 Oct 61	U12b.09	838 (1220)	37°11'39.4418"	116°12'25.2736"
5.	MINK			1830:00.131	29 Oct 61	U3ae	630	37°02'54.8432"	116°01'51.9485"
6.	FISHER			2304:59.632	3 Dec 61	U3ah	1193	37°02'45.0854"	116°01'59.6325"
7.	GNOMB			1900:00.004	10 Dec 61	Near Carlsbad New Mexico	1200	32°15'49"	103°51'37"
8.	MAD			1800:00.163	13 Dec 61	U9a	594	37°07'35.77"	116°02'55.54"
9.	RINGTAIL			1635:00.131	17 Dec 61	U3ak	1191	37°02'35.38"	116°01'31.13"
10.	FEATHER			1630:00.126	22 Dec 61	U12b.08	812 (1300)	37°11'41.76"	116°12'2984"
11.	STOAT			1630:00.135	9 Jan 62	U3ep	992	37°02'40.70"	116°02'06.23"
12.	ACQUITT			1800:00.133	18 Jan 62	U3ao	856	37°02'50.08"	116°02'03.69"

SHOT NUMBER	EVENT	DEVICE	YIELD (KT)	TIME $\frac{1}{2}$ (GCT)	DATE	SITE	DEPTH (m)	LATITUDE (N)	LONGITUDE (W)
13.	DORMOUSE	[REDACTED]	[REDACTED]	1800:00.128	30 Jan 62	U3aq	1191	37°02'48.64"	116°02'22.14"
14.	STILLWATER	[REDACTED]	[REDACTED]	1800:00.164	9 Feb 62	U9c	625	37°07'38.09"	116°03'09.15"
15.	ARMADILLO	[REDACTED]	[REDACTED]	1800:00.125	9 Feb 62	U3ar	786	37°02'36.88"	116°02'20.24"
16.	HARDHAT	[REDACTED]	[REDACTED]	1800:00.100	15 Feb 62	U15a	943	37°13'34.7140"	116°03'33.5234"
17.	CHINCHILLA	[REDACTED]	[REDACTED]	1630:00.132	19 Feb 62	U3ag	492	37°02'56.5909"	116°01'46.3128"
18.	COOSAW	[REDACTED]	[REDACTED]	1750:00.159	19 Feb 62	U9g	696	37°07'38.8308"	116°02'13.63"
19.	CIMARRON	[REDACTED]	[REDACTED]	1800:00.160	23 Feb 62	U9h	1000	37°07'43.88"	116°02'53.91"
20.	PLATYPUS	[REDACTED]	[REDACTED]	1630:00.127	24 Feb 62	U3ad	190	37°02'34"	116°01'54.85"
21.	PAMFUS	[REDACTED]	[REDACTED]	1910:00.091	1 Mar 62	U3el	1191	37°02'30.34"	116°01'44.799"
22.	DANNY BOY	[REDACTED]	[REDACTED]	1815:00.118	5 Mar 62	U18a	110	37°06'39.379"	116°21'53.818"
23.	ERMINE	[REDACTED]	[REDACTED]	1630:00.128	6 Mar 62	U3ab	240	37°02'54.233"	116°02'01.165"
24.	BRAZOS	[REDACTED]	[REDACTED]	1800:00.026	8 Mar 62	U9d	841	37°07'19.7891"	116°02'55.9678"
25.	HOGNOSE	[REDACTED]	[REDACTED]	1630:00.128	15 Mar 62	U3al	789	37°02'38.269"	116°01'51.774"

SHOT NUMBER	EVENT	DEVICE	YIELD (KT)	TIME 1/ (GCT)	DATE	SITE	DEPTH ^{2/} (m)	LATITUDE (N)	LONGITUDE (W)
26.	HOOSIC	[REDACTED]	[REDACTED]	1800:00.163	28 Mar 62	U9J	614	37°07'27.5474"	116°02'01.9485"
27.	CHINCHILLA II	[REDACTED]	[REDACTED]	1800:00.130	31 Mar 62	U3ae	448	37°02'48.874"	116°02'12.850"
28.	DORMOUSE Prime	[REDACTED]	[REDACTED]	1800:00.131	5 Apr 62	U3ae	856	37°02'40.219"	116°01'24.720"
29.	PASSAIC	[REDACTED]	[REDACTED]	1800:00.158	6 Apr 62	U9I	764	37°07'03.6376"	116°02'38.4413"
30.	HUDSON	[REDACTED]	[REDACTED]	1800:00.158	12 Apr 62	U9n	480	37°07'37.8426"	116°02'41.3226"
31.	PLATTE	[REDACTED]	[REDACTED]	1800:00.125	14 Apr 62	U12k.01	628 (560)	37°13'19.26"	116°09'26.77"
32.	DEAD	[REDACTED]	[REDACTED]	1840:00.162	21 Apr 62	U9k	634	37°07'08.4176"	116°01'53.4847"
33.	BLACK	[REDACTED]	[REDACTED]	1800:00.158	27 Apr 62	U9p	714	37°07'06.4610"	116°02'15.9730"
34.	PACA	[REDACTED]	[REDACTED]	1933:00.142	7 May 62	U3ax	848	37°02'47.6237"	116°01'30.0318"
35.	ARIKAREE	[REDACTED]	[REDACTED]	1500:00.160	10 May 62	U9r	549	37°07'39.2916"	116°02'53.8592"
36.	AARDVARK	[REDACTED]	[REDACTED]	1900:00.130	12 May 62	U3ame	1424	37°03'54.6976"	116°01'49.3656"
37.	BEL	[REDACTED]	[REDACTED]	1500:00.156	19 May 62	U9m	714	37°07'21.49"	116°02'49.9561"

SHOT NUMBER	EVENT	DEVICE	YIELD (KT)	TIME $\frac{1}{2}$ (GCT)	DATE	SITE	DEPTH $\frac{2}{2}$ (M)	LATITUDE (N)	LONGITUDE (W)
38.	WHITE	[REDACTED]	[REDACTED]	1500:00.154	25 May 62	U7b	635	37°07'29.4725"	116°03'07.1516"
39.	RACCOON	[REDACTED]	[REDACTED]	1700:00.137	1 Jun 62	U3aJa	539	37°02'44.206"	116°02'04.059"
40.	PACKBAT	[REDACTED]	[REDACTED]	1700:00.122	6 Jun 62	U3aW	860	37°02'44.5761"	116°02'01.4312"
41.	DES MOINES	[REDACTED]	[REDACTED]	2300:00.116	13 Jun 62	U12J.01	660 (610)	37°13'20.00"	116°09'43.78"
42.	DAMAN I	[REDACTED]	[REDACTED]	1700:00.131	21 Jun 62	U3ba	854	37°02'35.0035"	116°01'49.9090"
43.	HAYMAKER	[REDACTED]	[REDACTED]	1800:00.123	27 Jun 62	U3aee	1340	37°02'29.7466"	116°02'06.8626"
44.	MARSHMALLOW	[REDACTED]	[REDACTED]	1700:00.106	28 Jun 62	U16a	1050 (900)	37°00'32.7636"	116°12'03.7333"
45.	SACRAMENTO	[REDACTED]	[REDACTED]	2130:00.155	30 Jun 62	U7v	500	37°07'02.6885"	116°02'30.8975"
46.	SEDAN	[REDACTED]	[REDACTED]	1700:00.147	6 Jul 62	U10a	655	37°10'37.275"	116°02'43.357"
47.	LITTLE FELLER II	[REDACTED]	[REDACTED]	1900:00.103	7 Jul 62	Area 18	-3 $\frac{2}{2}$	37°07'09.1611"	116°18'10.3321"
48.	JOHNIE BOY	[REDACTED]	[REDACTED]	1645:00.092	11 Jul 62	Area 18	23 fathoms	37°07'20.8053"	116°19'38.9363"
49.	SMALL BOY	[REDACTED]	[REDACTED]	1830:00.123	14 Jul 62	Area 5	-10 $\frac{2}{2}$	36°48'08.9942"	115°55'30.2031"
50.	LITTLE FELLER I	[REDACTED]	[REDACTED]	1700:00.576	17 Jul 62	Area 18	-3 $\frac{2}{2}$	37°06'30.7784"	116°19'02.1775"

SHOT NUMBER	EVENT	DEVICE	YIELD (KT)	TIME (GCT)	DATE	SITE	HEIGHT (N)	LATITUDE (N)	LONGITUDE (W)
PACIFIC EVENTS									
1.	ADOBE	[REDACTED]	[REDACTED]	1545:52.0064	25 Apr 62	GZ 10	2900	1°39'07"	157°18'15"
2.	AZTEC	[REDACTED]	[REDACTED]	1601:51.6538	27 Apr 62	GZ 10	2610±75	1°39'07"	157°18'15"
3.	ARKANSAS	[REDACTED]	[REDACTED]	1601:30.1070	2 May 62	GZ 15	5030±50	1°34'30"	157°15'46"
4.	QUESTA	[REDACTED]	[REDACTED]	1904:54.7645	4 May 62	GZ 15	5230±30	1°34'30"	157°15'46"
5.	PRIGATE BIRD	POLLARS MR 47	[REDACTED]	2330:20	6 May 62	-----	[REDACTED]	4°30'	149°49'
6.	YUKON	[REDACTED]	[REDACTED]	1801:21.6748	8 May 62	GZ 10	2800±50	1°39'07"	157°18'15"
7.	MESILLA	[REDACTED]	[REDACTED]	1701:00.2396	9 May 62	GZ 10	2430±40	1°39'07"	157°18'15"
8.	MURKBOON	[REDACTED]	[REDACTED]	1537:04.7704	11 May 62	GZ 10	2995±75	1°39'07"	157°18'15"
9.	SWORDFISH	MR 44 ABROC	[REDACTED]	2003:06.91	11 May 62	-----	[REDACTED]	31°14.7'±0.3'	124°13.3'±0.3'
10.	ENCINO	[REDACTED]	[REDACTED]	1702:56.1063	12 May 62	GZ 12	5510±70	1°37'08"	157°17'13"
11.	SWANEE	[REDACTED]	[REDACTED]	1521:30.6234	14 May 62	GZ 10	2940±150	1°39'07"	157°18'15"
12.	CHETCO	[REDACTED]	[REDACTED]	1536:56.4116	19 May 62	GZ 10	6905±50	1°39'07"	157°18'15"
13.	TANAHIA	[REDACTED]	[REDACTED]	1608:30.7922	25 May 62	GZ 10	9000±50	1°39'07"	157°18'15"
14.	NAMBE	[REDACTED]	[REDACTED]	1702:51.0827	27 May 62	GZ 10	7140±50	1°39'07"	157°18'15"
15.	ALMA	[REDACTED]	[REDACTED]	1702:54.0021	8 Jun 62	GZ 14	8805±70	1°34'30"	157°15'46"
16.	TRUCKEE	[REDACTED]	[REDACTED]	1537:30.3192	9 Jun 62	GZ 10	6970±60	1°39'07"	157°18'15"

SHOT NUMBER	EVENT	DEVICE	YIELD (KT)	TIME ^{3/} (OCT)	DATE	SITE	HEIGHT (M)	LATITUDE ^{4/} (N)	LONGITUDE ^{4/} (W)
17.	YESO	[REDACTED]	[REDACTED]	1601:02.3350	10 Jun 62	GZ 20	8325470	1°30'34"	157°15'38"
18.	HARLEM	[REDACTED]	[REDACTED]	1537:20.6754	12 Jun 62	GZ 17	13645450	1°33'02"	157°13'46"
19.	BONCONADA	[REDACTED]	[REDACTED]	1600:57.1039	15 Jun 62	GZ 17	9105475	1°33'02"	157°13'46"
20.	DULCE	[REDACTED]	[REDACTED]	1600:52.8341	17 Jun 62	GZ 10	9090440	1°39'07"	157°18'15"
21.	PETIT	[REDACTED]	[REDACTED]	1501:09.1705	19 Jun 62	GZ 17	14995450	1°33'02"	157°13'46"
22.	OTOWI	[REDACTED]	[REDACTED]	1600:52.0942	22 Jun 62	GZ 10	9010440	1°39'07"	157°18'15"
23.	BECHORN	[REDACTED]	[REDACTED]	1519:17.3543	27 Jun 62	GZ 30	118104100	1°21'35"	157°15'38"
24.	BLUESTONE	[REDACTED]	[REDACTED]	1521:18.6636	30 Jun 62	GZ 25	4980440	1°25'35"	157°14'56"
25.	STARFISH Prime	[REDACTED]	[REDACTED]	0900:09.0290	9 Jul 62	J1	400.09 Km	16°28'06.32"	169°37'48.27"
26.	SUNSET	[REDACTED]	[REDACTED]	1633:01.2372	10 Jul 62	GZ 17	5000425	1°33'02"	157°13'46"
27.	PAMUJO	[REDACTED]	[REDACTED]	1537:10.6867	11 Jul 62	GZ 25	14330450	1°25'35"	157°14'56"
28.	ANDROCOCORN	[REDACTED]	[REDACTED]	1617:32.7796 ^{6/}	2 Oct 62	J1	10200	13°38.5'	172°11.1'
29.	BUMPHO	[REDACTED]	[REDACTED]	1602:30.1596 ^{6/}	6 Oct 62	J1	10000	14°30'	160°15'
30.	CHAMA	[REDACTED]	[REDACTED]	1601:18.4993 ^{6/}	18 Oct 62	J1	119704200	14°32'	160°44.7'
31.	CHECOMATE	[REDACTED]	[REDACTED]	0030:00.0031	20 Oct 62	J1	147.25 Km	16°04'20.57"	169°36'35.95"

SHOT NUMBER	EVENT	DEVICE	YIELD (KT)	TIME (GMT)	DATE	SITE	HEIGHT (m)	LATITUDE (N)	LONGITUDE (W)
32.	BLUESGILL Triple Prime	[REDACTED]	[REDACTED]	0955 18.4753	26 Oct 62	J1	48.27 Km	16°34'57.66"	169°36'11.15"
33.	CALAMITY	[REDACTED]	[REDACTED]	1346:27.2 ^{6/}	27 Oct 62	J1	11700	14°31.1'	168°15.6'
34.	HOUBATONEC	[REDACTED]	[REDACTED]	1601:55.5084 ^{6/}	30 Oct 62	J1	12130	13°36.8'	173°13'
35.	KINGFISH	[REDACTED]	[REDACTED]	1210:06.1263	1 Nov 62	J1	97.24 Km	16°00'48.61"	169°48'31.66"
36.	TIGHTROPE	[REDACTED]	[REDACTED]	0730:00.0678	4 Nov 62	J1	21.60 Km	16°43'26.71"	169°32'32.66"

1. Times are given in Greenwich Central time based on WWV signals; uncorrected for propagation time.

2. All Continental events were conducted below surface except those preceded by a minus (-) sign. For events employed in tandem the vertical distance to the ground surface (overburden) is given; the slant distance to the nearest surface also is given in parentheses.

3. Times are given in Greenwich Central time based on WWVH signals; corrected for propagation time.

4. Latitude and Longitude given in this appendix for DOMESTIC events is that of the nominal G3 position.

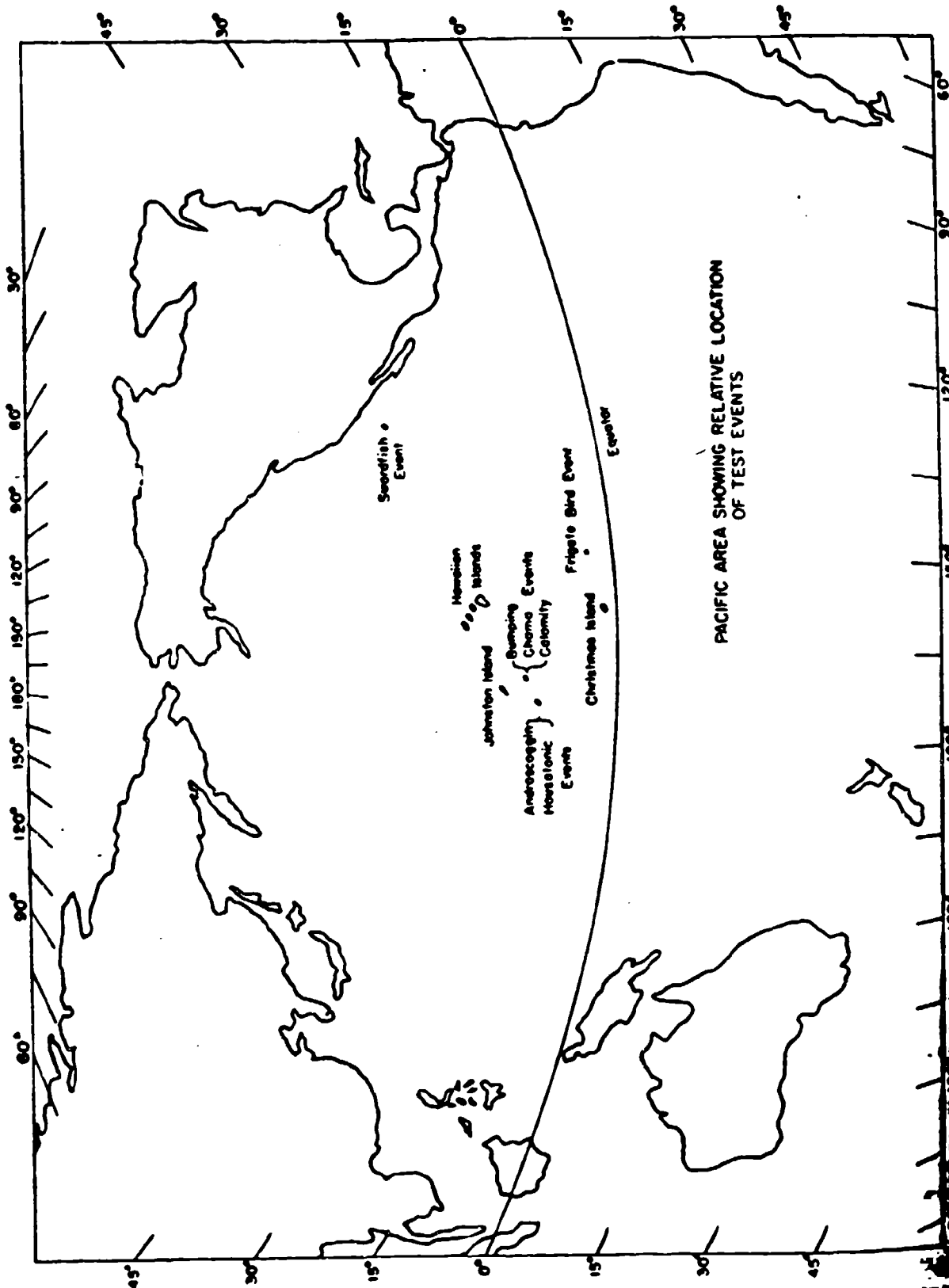
5. Underwater event.

6. Time of signal arrival at Johnston Island.

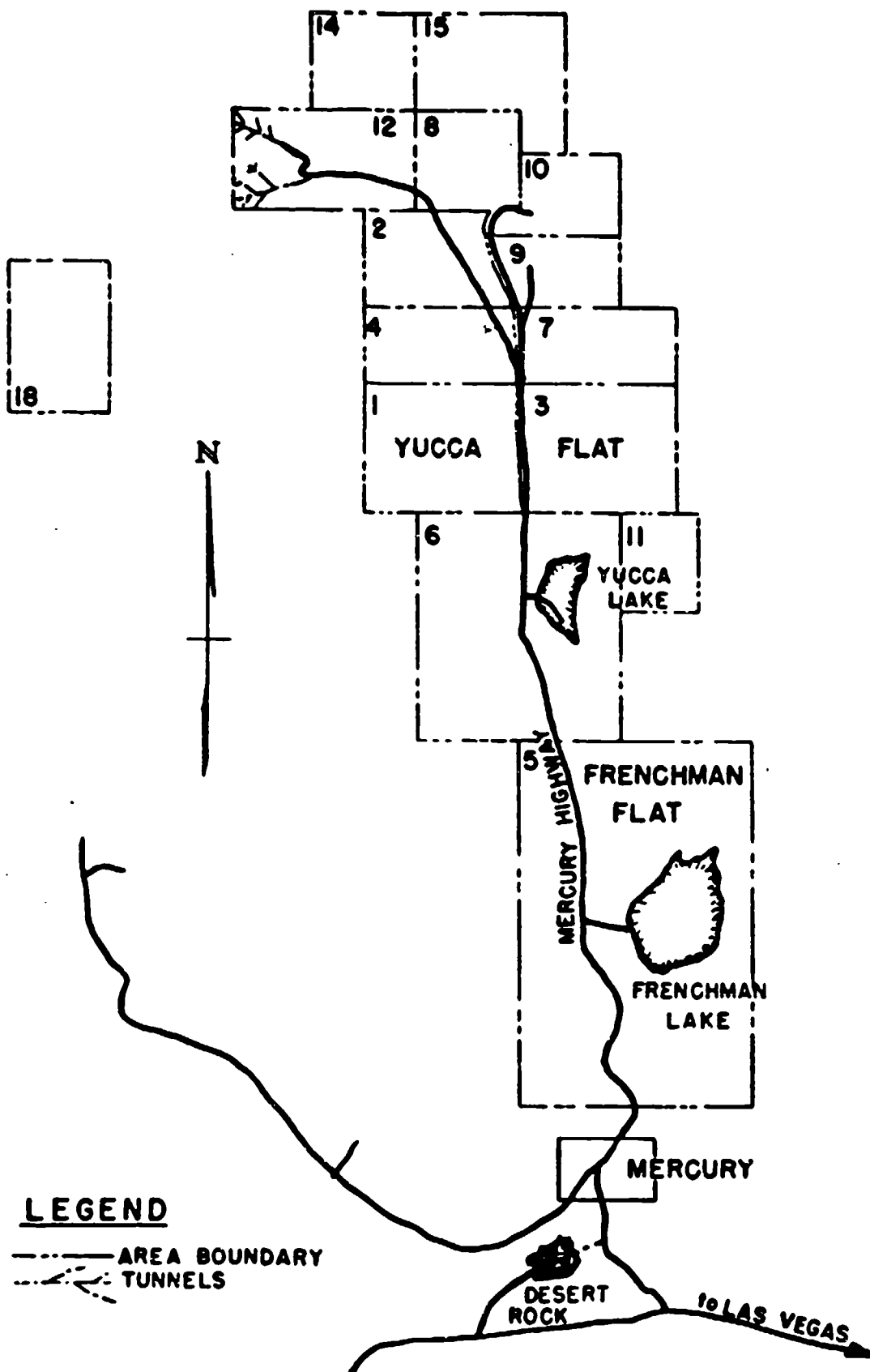
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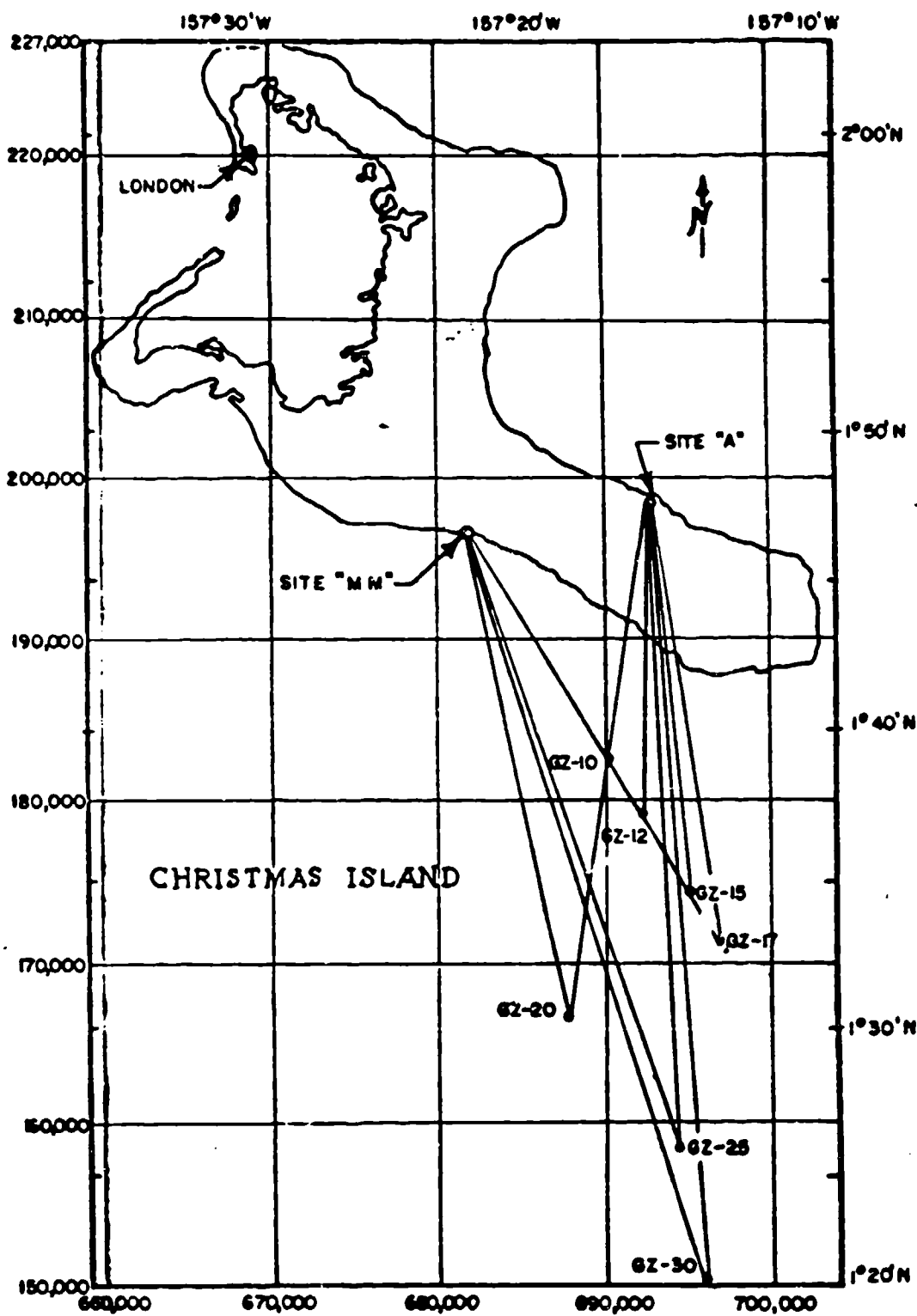
APPENDIX C

Maps of Principal Test Areas



PACIFIC AREA SHOWING RELATIVE LOCATION
OF TEST EVENTS





CHRISTMAS ISLAND TEST AREA

APPENDIX D

INDEX

<u>SUBJECT</u>	<u>PAGE</u>
AARDVARK	49
ADOBE	66
AGOUTI	25
ALMA	80
ANDROSCOGGIN	93
ANTLER	14
ARIKAREE	48
ARKANSAS	68
ARMADILLO	26
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
ASROC	74
AZTEC	67
BIGHORN	88
BLACK	46

<u>SUBJECT</u>	<u>PAGE</u>
BLUEBILL	97
[REDACTED]	
BLUESTONE	89
[REDACTED]	
BOYMER	16
[REDACTED]	
[REDACTED]	
BRAZOS	87
BUMFINO	94
CALAMITY	98
[REDACTED]	
[REDACTED]	
[REDACTED]	
[REDACTED]	
CHAMA	91
CHECYMATE	64
CHENA	17
CHETCO	77
[REDACTED]	
CHINCHILLA I	90
CHINCHILLA II	80

<u>SUBJECT</u>	<u>PAGE</u>	<u>SUBJECT</u>	<u>PAGE</u>
GIMMARON	32	HARDHAT	29
[REDACTED]		HARLEM	88
GOOSEAW	31	[REDACTED]	
[REDACTED]		HAYMAKER	56
[REDACTED]		[REDACTED]	
CRATERING SHOT	35, 61	HOGNOSE	38
DAMON I	55	HOOSIC	39
DANNY BOY	35	HOUSATONIC	99
[REDACTED]		HUDSON	43
DEAD	45	IVY FLATS	63
DEB MOINKS	54	[REDACTED]	
DORMOUSE	26	JOHNIE BOY	61
DORMOUNT Prime	41	[REDACTED]	
DULCE	55	[REDACTED]	
ENL	50	[REDACTED]	
ENGINE	75	[REDACTED]	
ERAMINE	36	LITTLE FELLER I	63
FRATHER	23	LITTLE FELLER II	60
FISHBOWL, Operation	90, 96, 97, 100, 101	MAD	21
FISHER	19	MARSHMALLOW	87
FRIGATE BIRD	70	MESILLA	72
GNOME	30	MINK	18
[REDACTED]		[REDACTED]	

SUBJECTPAGESUBJECTPAGE

SACRAMENTO

58

TIGHTROPE

101

TRUCKEE

81

SEDAN

59

UK EVENT

34

SHREW

15

WHITE

51

SMALL BOY

62

STARFISH Prime

90

STILLWATER

27

STOAT

24

SUNBEAM, Operation

62

SUNSET

91

SWANEE

76

SWORDFISH

74

TANANA

78

SUBJECT

PAGE

YESO

82

YUKON

71

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