DEFENSE ATOMIC SUPPORT AGENCY

NUC. TAR TEST SUMMARY

Nougart - Dominici

DASA-1211 - SAN

COPY:

15 August 1963

DASA

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NUCLEAR TEST SUMMARY

NOUGAT - DOMINIC

15 August 1963

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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This publication contains 128 pages.
This report supplements the information contained in the 15 August 1962 report, Nuclear Test Summary, TRINITY-HARUTACK (U), DASA 1220.

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Robert H. Booth
Major General, USA
Chief, DASA
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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 FLOWSHARE 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.

1-3.3.1 Plutonium (Pu) is used in weapons in either of two allotropic states. In this report Pu(a) indicates the alpha allotrope. Delta plutonium is phase stabilized by alloying with approximately one percent by weight of gallium. Except where the isotopic content is specifically indicated, all
plutonium is of weapons grade and contains a nominal 6 percent of the isotope $^{240}\text{Pu}$.

1-3.2.2 Oralloy (Oy) is uranium enriched in the isotope $^{235}\text{U}$. In this report, the symbol Oy refers to a nominal 93.5 percent enrichment in $^{235}\text{U}$. 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 $^{238}\text{U}$. 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 is lithium enriched in the isotope $^{6}\text{Li}$. In this report, $^{6}\text{Li}$ refers to a nominal 95% enrichment. Other enrichments are indicated by $^{6}\text{Li}$ 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 $^{6}\text{LiD}$, $^{6}\text{LiH}$, $^{6}\text{LiT}$, LiH refer to the salt formed by the chemical reacting of the hydrogen isotopes with lithium. $^{6}\text{LiDT}$ is used as a symbol for a mixture of $^{6}\text{LiD}$ and $^{6}\text{LiT}$.

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 fissile 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 $\phi^5$ 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.
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:

- B.O - 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.
- NTS - Nevada Test Site.

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

UK - United Kingdom.
SECTION II

Tests Conducted in the Continental United States
CONTINENTAL EVENT 1
NOUGAT ANTLER

SPONSOR: LRL
1700Z 15 Sep 61
Tunnel U12e.03a, Area 12, NTS
Depth: Slant 1570 ft., Overburden 1319 ft.

H. E. SYSTEM

PBX 9010
PBX 9404

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

SIGNIFICANCE:
Performed about as expected,
Sponsor: LASL
1945Z 16 Sep 61
Hole U3ac, Area 3, NTS
Depth: 322 ft.

ContinentaL Event 2
Nougat Shrew

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

Significance:
Performed about as expected.
CONTINENTAL EVENT 3
NOUGAT BOOMER

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

H. E. SYSTEM

PBX 9010
PBX 9404

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

SIGNIFICANCE:
Results were about as expected.
SPONSOR: LRL
1800Z 10 Oct 61
Tunnel U12b.00, Area 12, NTS
Depth: Shot 122 ft, Overburden 838 ft.

CONTINENTAL EVENT 4
NOUGAT CHENA

H. E. SYSTEM:

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

Deleted

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

HOLE U3ae, AREA 3, NTS

Deleted

Dimensions:
Max. Dia.: 15.3 in.
Length : 17.9 in.
Weight : 88.6 lb.
SPONSOR: LASL
305Z 3 Dec 61
Hole Utah, Area 3, NTS
Depth: 1193 ft.

CONTINENTAL EVENT 6
NOUGAT FISHER

Deleted

H.E. SYSTEM

PBX 9010
PBX 9404

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

Deleted
CONTINENTAL EVENT 7
PLOWSHARE Project GNOME

SPONSOR: LRL
190CZ 10 Dec 61
Carlsbad, N. M.
Tunnel Depth: 1200 ft.

Deleted

H. E. SYSTEM

PBX 9404

DIMENSIONS:
Max. Dia.: 41.5 in.
Length: 131.5 ft.
Weight: 10,435.60 lb.

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

Deleted
DIMENSIONS:
- Max. Dia.: 11.5 in.
- Length: 12.27 in.
- Weight: 63.9 lb.
CONTINENTAL EVENT 9
NOUGAT RINGTAIL

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

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H. E. SYSTEM

PBX 9910
PBX 9404

Deleted

DIMENSIONS:
Max. Dia.: 10.9 in.
Length: 14.9 in.
SPONSOR: LRL
1630Z 22 Dec 61
Tunnel U12b.08 Area 12, NTS
Depth: Sient 1300 ft, Overburden 812 ft.

Deleted

H. E. SYSTEM

PBX 9401

DIMENSIONS:

Deleted
CO. TINENTAL EVENT
11
SPONSOR: LASL
NOUGAT STOAT 1630Z 9 Jan 62
Hole U3ap, Area 3, NTS
Depth: 992 ft.

DI MENSIONS:
Device Diam: 15 in.
Weight: 51.4 lb.

SIGNIFICANCE:
The test confirmed the expected performance.

H.E. SYSTEM
Sponsor: LASL
18002 16 Jan. 62
Hole U329, Area 3, NTS
Depth: 656 ft.

CONTINENTAL EVENT 12
NOUGAT AGOUTI

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H. E. SYSTEM

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

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CONTINENTAL EVENT 13
NOUGAT DORMOUSE

SPONSOR: LASL
1600Z 30 Jan 62
Hole U3aq, Area 3, NTS
Depth: 1131 ft.

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H.E. SYSTEM

HMX 010
HMX 040

DELETED

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

DELETED

SIGNIFICANCE:
The device performed about as expected;
SPONSOR: LRL
1800Z 8 Feb 62
Hole U9c, Area 9, NTS
Depth: 625 ft.

CONTINENTAL EVENT 14
NOUGAT STILLWATER

Deleted

H. E. SYSTEM
PDX 9404

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

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CONTINENTAL EVENT 15
NOUGAT ARMADILLO

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

H. E. SYSTEM

PBX 9404

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

Boratol
Composition B
Cyclotol 75/25

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

Deleted

SIGNIFICANCE:
The technical objectives of the experiment were fulfilled.

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

**H. E. SYSTEM**

**DIMENSIONS:**
- Max. Dia.: 15 in.
- Length: 15.5 in.
- Weight: 61.7 lb.

**SIGNIFICANCE:**
The device performed about as expected giving the proper yield
SPONSOR: LRL
17502 19 Feb 62
Hole U9g, Area 9, NTS
Depth: 696 ft.

Deleted

H. E. SYSTEM:

PBX 9303

DIMENSIONS:

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

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

H. E. SYSTEM

PBX 9404

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

SIGNIFICANCE:
The device performed as expected
SPONSOR: LASL
1630Z 24 Feb 62
Hole U3ad, Area 3, NTS
Depth: 190 ft.

Deleted

H. E. SYSTEM
PBX 9010
PBX 9404

Deleted

DIMENSIONS:
Length: 14.9 in.

Deleted
H. E. SYSTEM
PBX 9404

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

YIELD:
Achieved: 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.
CONTINENTAL EVENT 23
NOUGAT ERMINE

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

Deleting...
CONTINENTAL EVENT 24
NOUGAT BRAZOS

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

H. E. SYSTEM
PBX 9404

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

SIGNIFICANCE:
The performance of this system was proven and the desired yield obtained.
CONTINENTAL EVENT 25
NOUGAT HOCNOSE

SPONSOR: LASL
1630Z 15 Mar 62
Hole U3a1, Area 3, NTS
Depth: 789 ft.

H. E. SYSTEM

PBX 9404

DIMENSIONS:
Max. Dia.: 14.5 in.
Length : 25.4 in.
Weight : 118 lb.
SPONSOR: LRL
1800Z 28 Mar 62
Hole U9J, Area 9, NTS
Depth: 614 ft.

DIMENSIONS:
Max. Dia.: 11.57 in.
Length: 28.19 in.
H. E. SYSTEM

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

SIGNIFICANCE:
The yield confirmed the performance

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

H. E. SYSTEM

PBX 9010
PBX 9404

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

Deleted
CONTINENTAL EVENT 29
NOUGAT PASSAIC

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

Deleted

H. E. SYSTEM

PBX 9404

Deleted

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

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

CONTINENTAL EVENT 30
NUGAT HUDSON

Deleted

H. E. SYSTEM
PBX 9404

Deleted

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

Deleted

Deleted
### CONTINENTAL EVENT 31

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

---

**H. E. SYSTEM**

**PBX 9404**

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Max. Dia.</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 in.</td>
<td>23 in.</td>
<td>259.29 lb.</td>
</tr>
</tbody>
</table>
Sponsor: LRL
1640Z 21 Apr 62
Hole U9k, Area 9, NTS
Depth: 634 ft.

Continental Event 32
Nougat Dead

Deleted

H. E. System
PBX 9404

Deleted

Dimensions:
Max. Dia.: 16.75 in.
Length: 34.03 in.
Weight: 252.82 lb.
Continental Event 33
Nougat Black

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

Deleted

H. E. System

PBX 9404

Deleted

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

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

CONTINENTAL EVENT 54
NOUGAT PACA

H. E. SYSTEM
PBX 9404

DIMENSIONS:
Max Dia.: 16.25 in.
Length: 25 in.
CONTINENTAL EVENT 35

NoUGAT ARIKAREE

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

Deleted

H. E. SYSTEM:

Deleted

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

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

H. E. SYSTEM

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

SIGNIFICANCE:
The successful test provided information for the design
also provided data useful in the design.
CONTINENTAL EVENT 37
NOUGAT BEL

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

Deleted

H. E. SYSTEM

PBX 9404

Deleted

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

Deleted

SIGNIFICANCE:
The success of this event provided data

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

Deleted

H. E. SYSTEM
LX-040

Deleted

DIMENSIONS:
Max. Dia.: 11.05 in.
Length : 30.23 in.
Weight : 189.43 lb.
CONINENTAL EVENT 39
NOUGAT RACCOON

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

H. E. SYSTEM

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

SIGNIFICANCE:
The device performed about as expected;
SPONSOR: LASL
1700Z 6 Jun 62
Hole U3aw, Area 3, NTS
Depth: 860 ft.

CONTINENTAL EVENT 40
NOUGAT PACKRAT

Deleted

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

SIGNIFICANCE:
The test was successful.

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

<table>
<thead>
<tr>
<th>H. E. SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRX 9404</td>
</tr>
</tbody>
</table>

**DIMENSIONS:**
- Max. Dia.: 25.88 in.
- Length : 29.97 in.
SPONSOR: LASL
1700Z 21 Jun 62
Hole U3be, Area 3, NTS
Depth: 854 ft.

CONTINENTAL EVENT 42
NOUGAT DAMAN I

Deleted

H.E. SYSTEM
FBX 9404

Deleted

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

Deleted

SIGNIFICANCE:
The device performed satisfactorily.

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

Deleted

H. E. SYSTEM
PBX 9404

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

Deleted

SIGNIFICANCE:
The technical objectives of the test were fulfilled and device performance was about as predicted.
CONTINENTAL EVENT 45
NOUGAT SACRAMENTO

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

Deleted

H. E. SYSTEM

LX-040

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

Deleted

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

CONTINENTAL EVENT 46
FLOWSHARE SEDAN

Deleted

H. E. SYSTEM
HEX 9404

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

YIELD:
Predicted:
Achieved:
Total: 100 ± 15 KT

REMARKS:
The primary objective of this FLOWSHARE 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.
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.
CONTINENTAL EVENT 49
DOMINIC II JOHNNIE BOY

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

H. E. SYSTEM
Cyclotol 75/25
Composition B

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

REMARKS:
A test to determine the effects buried slightly below the surface. Primary interest was in cratering and ground shock. The technical features of the experiment were similar to those of DANNY BOY (event 22).

SIGNIFICANCE:
Effects data were obtained.
CONTINENTAL EVENT 49
DOMINIC II (SUNBEAM) SMALL BOY

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

H.E. SYSTEM

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.

SIGNIFICANCE:
Technical objectives of the experiment were fulfilled;
SPONSOR: DOD
1700Z  17 Jul 62
Area 18, NTS
Height: 3 ft. above surface

CONTINENTAL EVENT 50
DOMINIC FLITTLE PELLER

H. E. SYSTEM
PBX 9010
PBX 9404

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

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

SIGNIFICANCE:
Effects and cratering data were obtained. The field exercise was successfully conducted.
SECTION III

Tests Conducted in the Pacific Ocean Area
PACIFIC EVENT I
SPONSOR: LASL
1546Z 25 Apr 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 2900 ft.

DIMENSIONS:
Warhead Dia.: 15.4 in. (max)
Length: 44 in.
Weight: 409 lb.
Drop Case Mk 39 Mod 1 Type 3

REMARKS:
No fireball pictures were obtained because of cloud cover which obscured the target area.
Sponsor: LASL
1602Z 27 Apr 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 2610 ft.

PACIFIC EVENT 2
DOMINIC AZTEC

Deleted

H. E. SYSTEM

PDX 9010
PDX 9404

Deleted

Dimensions:

<table>
<thead>
<tr>
<th></th>
<th>Warhead</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dia.</td>
<td>15.4 in. (max.)</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>44 in.</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>409 lb.</td>
<td></td>
</tr>
<tr>
<td>Drop Case</td>
<td>Mk 39 Mod 1 Type 3</td>
<td></td>
</tr>
</tbody>
</table>
PACIFIC EVENT 3
DOMINIC ARKANSAS

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

H. E. SYSTEM

PBX 9404

DIMENSIONS Warhead
Max. Dia.: 17.36 in.
Length: 47.30 in.
Weight: 600 lb.
Drop Case Mk 36 (modified)

REMARKS:
The device was mounted in a
within a Mk 36 bomb case.

SIGNIFICANCE:
The highly successful performance of this device confirmed design calculations.
SPONSOR: LASL
1905Z 4 May 62
GZ 15, Christmas Island Test Area
Air Drop, HOB 5230 ft.

DIMENSIONS:
Warhead
Dia. 15.75 in. (max.)
Length 47.8 in.
Weight 552 lb.
Drop Case Mk 39 Mod 1 Type 3
DOMINIC FRIGATE BIRD
Mk 47 (Polaris System Test)

DIMENSIONS:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warhead Dia</td>
<td>18.0 in.</td>
</tr>
<tr>
<td>Warhead Length</td>
<td>19.9 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>717 lb.</td>
</tr>
</tbody>
</table>

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.

SIGNIFICANCE:
The systems test was satisfactory with a satisfactory yield of warhead.
SPONSOR: LRL
1801Z 8 May 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 2880 ft.

PACIFIC EVENT 6
DOMINIC YUKON

Deleted

H. E. SYSTEM
PBX 9404

Deleted

DIMENSIONS:
Max. Dia.: 11.57 in.
Length: 28.06 in.
Weight: Deleted
Drop Case Mk 36

Deleted
PACIFIC EVENT 7
DOMINIC MESILLA

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

Deleted

H. E. SYSTEM

PBX 9404

Deleted

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

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

H. E. SYSTEM
PBX 9404

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

SIGNIFICANCE:
The device performed as predicted.
PACIFIC EVENT 9
DOMINO SWORDFISH
Mk 44 (ASROC System Test)

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

H. E. SYSTEM
PBX 9010
PBX 9404

DIMENSIONS:
Warhead
Dia.: 13.75 in.
Length: 25.30 in.
Weight: 160 lb.

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.

SIGNIFICANCE:
Data were obtained pertaining to the employment of the ASROC system.
Sponsor: LASL
1703Z 12 May 62
GZ 12, Christmas Island Test Area
Air Drop, HOB 5510 ft.

Deleted

H. E. SYSTEM
PBX 9010
PBX 9404

Deleted

Dimensions:

<table>
<thead>
<tr>
<th></th>
<th>Bomb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dia.</td>
<td>18 in.</td>
</tr>
<tr>
<td>Length</td>
<td>149.5 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>2060 lb.</td>
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</tbody>
</table>

Drop Case Mk 15 Mod 0 Type 3

Deleted
PACIFIC EVENT 11
DOMINIC SWANEE

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

H. E. SYSTEM

DIMENSIONS:
Max Dia.: 17.13 in.
Length: 38.00 in.
Weight: 506 lb.
Drop Case Mk 36
SPONSOR: LRL
1537Z 19 May 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 6905 ft.

PACIFIC EVENT 12
DOMINIC CHETO

H. E. SYSTEM

PBX 9404

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

Deleted

Deleted

Deleted
PACIFIC EVENT 13
DOMINIC TANANA

SPONSOR: LRL
1609Z 25 May 62
GZ 10, Christmas Island Test
Air Drop, HO8 9030 ft.

Deleted

H. E. SYSTEM

PBX 9204

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.

Deleted

H. E. SYSTEM
PBX 9010
PBX 9404

Deleted

DIMENSIONS:
Dia. : 11.87 in.
Length : 31.58 in.
Weight : 174
Drop Case Mk 15 Mod O Type 3

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

H. E. SYSTEM
PBX 9010
PBX 9404

DIMENSIONS: 
Warhead
Dia.: 15.75 in.
Length: 47.8 in.
Weight: 553 lb.
Drop Case Mk 39 Mod O Type 3

SIGNIFICANCE:
The device performed as expected

Deleted
Sponsor: LRL
15372 9 Jun 62
GZ 10, Christmas Island Test Area
Air Drop, HOB 6970 ft.

Deleted

H. E. System
LX-04-6

Deleting

Dimensions:
Max. Dia.: 15.6 in.
Length: 40.37 in.
Weight: 257 lb.
Drop Case Mk 36

Deleted
PACIFIC EVENT 17
SPONSOR: LASL
1601Z 10 Jun 62
CZ 20, Christmas Island Test Area
Air Drop, HOB 8325 ft.

H. E. SYSTEM

PBX 9010
PBX 9404

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

SIGNIFICANCE:
The device performed as expected
SPONSOR: LRL
1537Z 12 Jun 62
GZ 17, Christmas Island Test Area
Air Drop, HOE 13, 645 ft.

DIMENSIONS:
Warhead

18.0 in.
19.9 in. (aft flare)
46.6 in.
733 lb.

SIGNIFICANCE:
The satisfactory results of this test

Deleted
PACIFIC EVENT 19
SPONSOR: LASL
2001Z 15 Jun 62
GZ 17, Christmas Island Test Area
Air Drop, HOB 9105 ft.

Deleted

H. E. SYSTEM

PBX 9010
PBX 9404

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

H. E. SYSTEM

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

SIGNIFICANCE:
The test demonstrated the effect 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

Deleted

DIMENSIONS:
Max. Dia.: 24.41 in.
Length : 63.29 in.
Weight : 498 lb.
SPONSOR: LASL
1601Z 22 Jun 62
GZ 10, Christmas Island Test Area
Air Drop, 1108 9010 ft.

H. E. SYSTEM

DIMENSIONS:
Max. Dia.: 15.4 in.
Length : 42.7 in.
Weight : 166.1 lb.
Drop Case Mk 15 Mod 2 Type 3
PACIFIC EVENT 23
DOMINIC BIGHORN

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

Deleted

H. E. SYSTEM

PRX 9010
PRX 9404

Deleted

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

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

H. E. SYSTEM
PBX 9204

DIMENSIONS:
Max. Dia.: 17.13 in.
Length : 38.00 in.
Weight : 564.32 lb.
Drop Case Mk 36
PACIFIC EVENT 25
FISHBOWL STARFISH Prime

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

H. E. SYSTEM
Composition B
Cyclotol 75/25

DIMENSIONS:
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

SIGNIFICANCE:
The position of burst was as planned. Long range measurements of diagnostic data indicate Technical objectives of the experiment were fulfilled.
Sponsor: LASL
16332 10 Jul 62
GZ 17, Christmas Island Test Area
Air Drop, HOB 5000 ft.

PACIFIC EVENT 26
DOMINIC SUNSET

H. E. System

PEDX 9010
PEDX 9404

Dimensions:
Dia. : 15.75 in.
Length : 39.83 in.
Weight : 543 lb.
Drop Case Mk 15 Mod 2 Type 3
SPONSOR: LRL
1537Z 11-Jul-62
GZ 25, Christmas Island Test Area
Air Drop, HOB 14,330 ft.

H. E. SYSTEM
PBX 9404

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

SIGNIFICANCE:
The results confirmed theoretical predictions.
SPONSOR: LRL
1618Z 2 Oct 62
Johnston Island Test Area
Air Drop, HOB 10,260 ft.

H. E. SYSTEM

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

H. E. SYSTEM
PBX 9404

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

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

PACIFIC EVENT 30
DOMINIC CHAMA

H. E. SYSTEM
PBX 9404

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

SIGNIFICANCE:

valuable design data were
obtained.
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

DIMENSIONS:

Warhead
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.

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

PACIFIC EVENT 32
FISHBOWL BLUEGILL Triple Prime

Deleted

H. E. SYSTEM
PBX 6:10
PBX 9404

Deleted

DIMENSIONS:

<table>
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<tr>
<th>Warhead</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Dia.: 15.4 in.</td>
</tr>
<tr>
<td>Length : 44 in.</td>
</tr>
<tr>
<td>Weight : 409 lb.</td>
</tr>
</tbody>
</table>

Test Vehicle Thor missile Mk 4
Re-entry vehicle

REMARKS:
A test to determine
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.
PACIFIC EVENT 33
DOMINIC CALAMITY

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

Deleted

H. E. SYSTEM

DELETED

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

Deleted
PACIFIC EVENT 35  
FISHBOWL KINGFISH  

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

Deleted

Deleted

H. E. SYSTEM

PBX 9010  
PBX 9404  

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 from a nuclear burst at 95 Km altitude.

Deleted

SIGNIFICANCE:  
The objectives of the experiment were fulfilled.
SPONSOR: DOD PACIFIC EVENT 36
0730Z 4 Nov 62
Johnston Island Test Area
High Altitude Test, 1108 21.03 Km.

DOD PACIFIC EVENT 36
FISIBOWL TIGHTROPE

H. E. SYSTEM
Boracitrol
Composition B
Cyclotol

DIMENSIONS:
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.
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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 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.

<table>
<thead>
<tr>
<th>CASE</th>
<th>MATERIAL</th>
<th>ID</th>
<th>THICKNESS</th>
</tr>
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<tbody>
<tr>
<td>Mk 15 Mod 0 Type 3</td>
<td>Cast Iron</td>
<td>29.13 in.</td>
<td>2.69 in.</td>
</tr>
<tr>
<td>Mk 15 Mod 0 Type 3 1/</td>
<td>Cast Iron</td>
<td>30.62 in.</td>
<td>1.88 in.</td>
</tr>
<tr>
<td>Mk 15 Mod 2 Type 3</td>
<td>Cast Iron</td>
<td>29.13 in.</td>
<td>2.69 in.</td>
</tr>
<tr>
<td>Mk 39 Mod 1 Type 3</td>
<td>Steel</td>
<td>32.04 in.</td>
<td>1.23 in.</td>
</tr>
<tr>
<td>Mk 36 Mod 1 2/</td>
<td>Al.</td>
<td>55.22 in.</td>
<td>0.50 in.</td>
</tr>
</tbody>
</table>

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. Additional Weld 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 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 fiber 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 inserted 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 the 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. A 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 3  Configuration of CHAMA Test Device in Mk 36 Case
### APPENDIX B

#### TIMES AND LOCATIONS OF EVENTS

<table>
<thead>
<tr>
<th>SHOT NUMBER</th>
<th>EVENT</th>
<th>DEVICE</th>
<th>YIELD (KT)</th>
<th>TIME 1/ (GCT)</th>
<th>DATE</th>
<th>SITE</th>
<th>DEPTH 2/ (M)</th>
<th>LATITUDE (N)</th>
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1. Times are given in Oceangraphic 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 emplaced in tunnels 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 Oceangraphic Central time based on WWV signals; corrected for propagation time.
4. Latitude and Longitude given in this appendix for DOMINIC events is that of the nominal GS position.
5. Underwater event.
6. Time of signal arrival at Johnston Island.
APPENDIX C

Maps of Principal Test Areas
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