

United States Government

Department of Energy

# memorandum

DATE: November 15, 1984

REPLY TO: PE-241  
ATTN OF:

SUBJECT: Declassification of Documents Requested by Representative Ottlinger

TO: J. E. Lytle, Director  
Office of Classification

Representative Richard L. Ottlinger, Chairman of the Sub-Committee on Energy Conservation and Power, has requested a number of AEC archival documents dealing with radiation exposures during the 1945-1962 period (attached). Many of these are classified. I have delivered the file folders containing the classified documents to Mr. Cucchiara along with the completed form DOE F 5635.3.

Please declassify those that meet your criteria so that I may send them to Mr. Ottlinger. Identify those which must remain classified and I will transmit them separately according to accepted procedures.

*Donald M. Ross*  
Donald M. Ross, Director  
Occupational Safety & Health Division  
Office of Operational Safety

Attachment

C 1237

5000854

7013  
P.

# This Pkg Downgrade

- 905 ✓ 50E 28-2+2 "calculator at Finsen Hall"  
909 ✓ WT 1661 ✓  
" 940 ✓ DNA C-038 Hard disk I Series  
890 ✓ WT 244  
899 ✓ WT 1708  
898 ✓ WT 1715 with ISAC 2650-TX-1  
897 ✓ ITB 1264  
✓ REN nine Fort Sheet  
NTPR Fort sheet  
~~871~~ ~~summary of current reg~~

- ~~871~~ ~~summary of current reg~~  
884 ✓ OTC 58-5 Gun Hard disk I  
" 7.2 ✓ TFD OTC 7.5 Fort kips  
911 ✓ HIN compilation report  
906 ✓ WT 1662  
905 ✓ WT 1681  
904 ✓ WT 1663  
903 ✓ WT 1629  
908 ✓ WT 1677  
900 ✓ WT 1664  
910 ✓ FR 4940 TC (n)  
681 ✓ NPL 4417  
~~871~~ ~~summary of current reg~~

WT 381 ✓  
WT 394. M.I.L. 3 to discuss with Tech  
Personnel team

101-78-782-LJ/F

CALCULATION OF FISSION PRODUCT  
GAMMA RAY AND BETA SPECTRA  
AT SELECTED TIMES AFTER FAST FISSION  
OF U<sub>238</sub> AND U<sub>235</sub> AND  
THERMAL FISSION OF U<sub>235</sub>

DRAFT FINAL

PREPARED BY

S. P. FINN  
G. L. SIMMONS  
L. V. SPENCER

*#905*  
*ONB 262*  
*Vernon*  
*305 3/4*  
*1006*

PREPARED FOR

NATIONAL BUREAU OF STANDARDS  
PURCHASE ORDER 808946

FEBRUARY 23, 1979

5000856

WFO 8/14

DOD

Subject: Nuclear Test Personnel Review (NTPR)

Background of NTPR Program.

Between 1945 and 1962 the Atomic Energy Commission (AEC) carried out some 235 atmospheric nuclear tests, principally in Nevada and the Pacific Ocean. An estimated 220,000 Department of Defense (D) personnel, military and civilian, were involved in this testing and many received low-levelizing radiation exposures in the performance of various activities. Because the exposures generally were well within established radiation exposure limits, there was no reason to expect any increased health risk.

first indication that former test participants might be experiencing adverse health effects likely related to radiation exposure at the tests occurred in 1977. The Center for Disease Control (CDC), as a result of its investigation of a leukemia case involving an individual who had participated in Shot SMOKY at the Nevada Test Site in 1957, became interested in the health status of personnel who had been present at that shot. By late 1977, a DoD ad hoc committee, working with CDC, had reconstructed a list of approximately 3200 DoD personnel present on the day of the SMOKY test and determined that some eight leukemia cases had occurred among the group. The locations indicated in the following table are the locations where the affected individuals were working at the time of the test.

## FACT SHEET

W.D.C.  
N.K. 3/9/87

REDWING was a 17-detonation nuclear weapon test series (see table) held at the Atomic Energy Commission's (AEC) Pacific Proving Ground (PPG) in spring and summer 1956. The PPG consisted principally of Enewetak\* and Bikini atolls in the northwestern Marshall Islands in the Central Pacific Ocean.

REDWING test events, 1956<sup>a</sup>

Assigned Name	Location	Date (local time)
LACROSSE	Enewetak; surface on Runit Island	5 May
CHEROKEE	Bikini; airdrop near Nam Island	21 May
ZUNI	Bikini; surface on Eneman Island	28 May
YUMA	Enewetak; tower on Aomon Island	28 May
ERIE	Enewetak; tower on Runit Island	31 May
SEMINOLE	Enewetak; surface on Boken Island	6 June
FLATHEAD	Bikini; barge of Iroij Island	12 June
BLACKFOOT	Enewetak; tower on Runit Island	12 June
KICKAPOO	Enewetak; tower on Aomon Island	14 June
OSAGE	Enewetak; airdrop over Runit Island	16 June
INCA	Enewetak; tower on Lujor Island	22 June
DAKOTA	Bikini; barge off Iroij Island	26 June
MOHAWK	Enewetak; tower on Eleleron Island	3 July
APACHE	Enewetak; barge off Dridrilbwij Island	9 July
NAVAJO	Bikini; barge off Iroij Island	11 July
TEWA	Bikini; barge over Nam Island reef	21 July
HURON	Enewetak; barge off Dridrilbwij Island	22 July

## Note:

<sup>a</sup>Yields not announced except: LACROSSE (40 KT), CHEROKEE ("several MT"), ZUNI (3.5 MT), SEMINOLE (13.7 KT), TEWA (5 MT). One kiloton equals the approximate energy release of the explosion of one thousand tons of TNT; one megaton equals the approximate energy release of the explosion of one million tons of TNT.

\* The spelling of Marshall Island place names has changed in recent years in order to more accurately render the sounds of the Marshall Island names using English spelling.

## FACT SHEET

U D O E  
PL 3/1/83

IVY was an atmospheric nuclear weapons test series held in the Atomic Energy Commission's (AEC) Pacific Proving Ground at Enewetak Atoll in the Marshall Islands during autumn 1952. The series consisted of the two detonations listed below.

Assigned Name	Local Date	Location	Yield <sup>a</sup>
MIKE	1 Nov	Eluklab Island; surface	10.4 MT
KING	16 Nov	Airburst (1,480 feet [440 meters]) over reef off Runit Island	500 KT

<sup>a</sup>One kiloton equals the approximate energy release of the explosion of one thousand tons of TNT; one megaton equals the approximate energy release of the explosion of one million tons of TNT.

## HISTORICAL BACKGROUND

President Truman made the decision to pursue the development of thermonuclear weapons in 1950, and the IVY series was a key step in this development. MIKE was an experimental device and produced the first thermonuclear detonation, in which a substantial portion of its energy was generated by the fusion, or joining, of hydrogen atoms. KING was a stockpile weapon, modified to produce a large yield. It was dropped from a B-36 bomber. The energy from KING was generated by the fission, or splitting, of plutonium atoms. These were the largest nuclear explosions to that time.

## JOINT TASK FORCE 132

Joint Task Force 132 (JTF 132) was the organization that conducted the IVY test series. Elements of the four services, the AEC and other Federal government agencies, and civilians from government laboratory organizations and contractors made up this organization. Commander JTF 132 reported to the Joint Chiefs of Staff, but was also designated the AEC's agent in conducting the

4417  
**SECRET**

NR L - Report 4417

RD 4410  
C 88

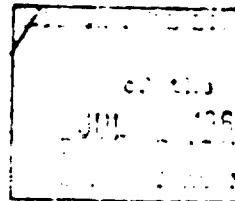
OPERATION CASTLE

ATOMIC ENERGY DATA  
SIGMA C-1

Project 18.1

PHOTOELECTRIC MEASUREMENTS OF TIME INTERVAL  
BETWEEN REACTIONS

Lt. Warren L. Smith, USNR  
T/Sgt. James Yandle, USAF  
T/Sgt. Berry Caldwell, USAF  
Ralph Richardson



Recommend TOTAL  
Denfa 1

H-1

Not sufficient.

Not complete



68005018

NAVAL RESEARCH LABORATORY

Washington, D.C.

EXCLUDED FROM GENERAL DECLASSIFICATION  
SCHEDULE

**RESTRICTED DATA**

Atomic Energy Act of 1946

**SECRET**

5000-860

Title page Only

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY:	DETERMINATION [Circle Number(s)]
DUG/HG LTH Jan 1996	1 CLASSIFICATION DETERMINED
REVIEWER (ADD):	2 CLASSIFICATION DETERMINED TO:
MURPHY Dennis W Murphy	③ CONTAINS NO DOD CLASSIFIED INFO
	A COORDINATE WITH:
	CLASSIFICATION CANCELLED
	CLASSIFIED INFO BRACKETED

**SECRET**

10001

a/10,327

10001  
10001

28 Oct 54

#727

DNA 20 K644

DOC 2

EX-100

# JOINT TASK FORCE SEVEN COMMANDER TASK GROUP 7.3

## FINAL REPORT OPERATION CASTLE



STATUS VERIFIED UNCLASSIFIED	
Title Page Only CIC 111818	
<i>Dennis W. Murphy BN. AOC</i>	<i>5/21/96</i>
DATE	

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19800081  
500081

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ATOMIC ENERGY ACT - 1946

COPY NO. \_\_\_\_\_

DNA 6038

CONFIDENTIAL

# OPERATION HARDTACK I

1958

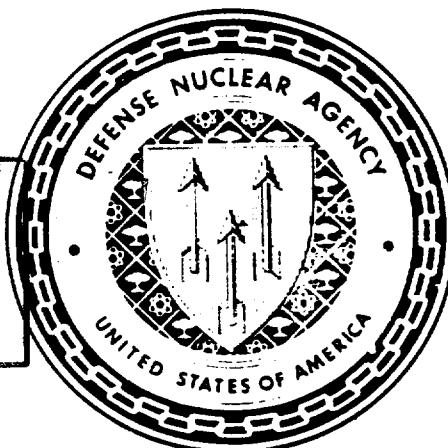
A896  
DNA 2/14/64  
DAB 4/1

STATUS VERIFIED UNCLASSIFIED

CIC 821202

Dennis Major, BN

5/12/64  
DATE



If single C's  
are used for clas  
Predicted Salvoes  
(2) (see letter 3/1

United States Atmospheric Nuclear Weapons Tests  
Nuclear Test Personnel Review

DEC  
9/

Prepared by the Defense Nuclear Agency as Executive Agency  
for the Department of Defense

500082

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Subject to automatic downgrading and declassification  
in accordance with applicable laws and regulations

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WT-1004

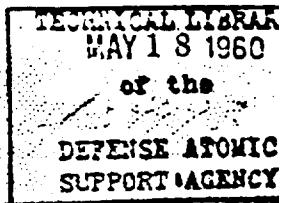
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D7K0200

Operations

# HARDTACK

April - October 1958



Project 4.3

4700

L7R 4 11 F6  
DEC 21 1960

EFFECT of LIGHT from VERY-LOW-YIELD NUCLEAR  
DETONATIONS on VISION (DAZZLE) of COMBAT  
PERSONNEL (U)

Issuance Date: April 28, 1960

HEADQUARTERS FIELD COMMAND  
DEFENSE ATOMIC SUPPORT AGENCY  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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CIC 600428

*A* *APC*  
Dennis W Murphy, Brn

3/13/96  
DATE

5000843

D7L-020-164

REPORT

OPERATION TAKE BACK PHASE II

REPORT DATE

020 91

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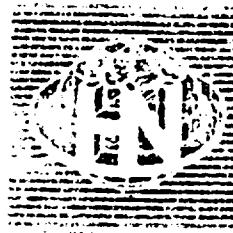
CJC 39426

Do w AOC

5/13/96

DATE

Deputy in Murphy on



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GFC 18127

Denny AOL

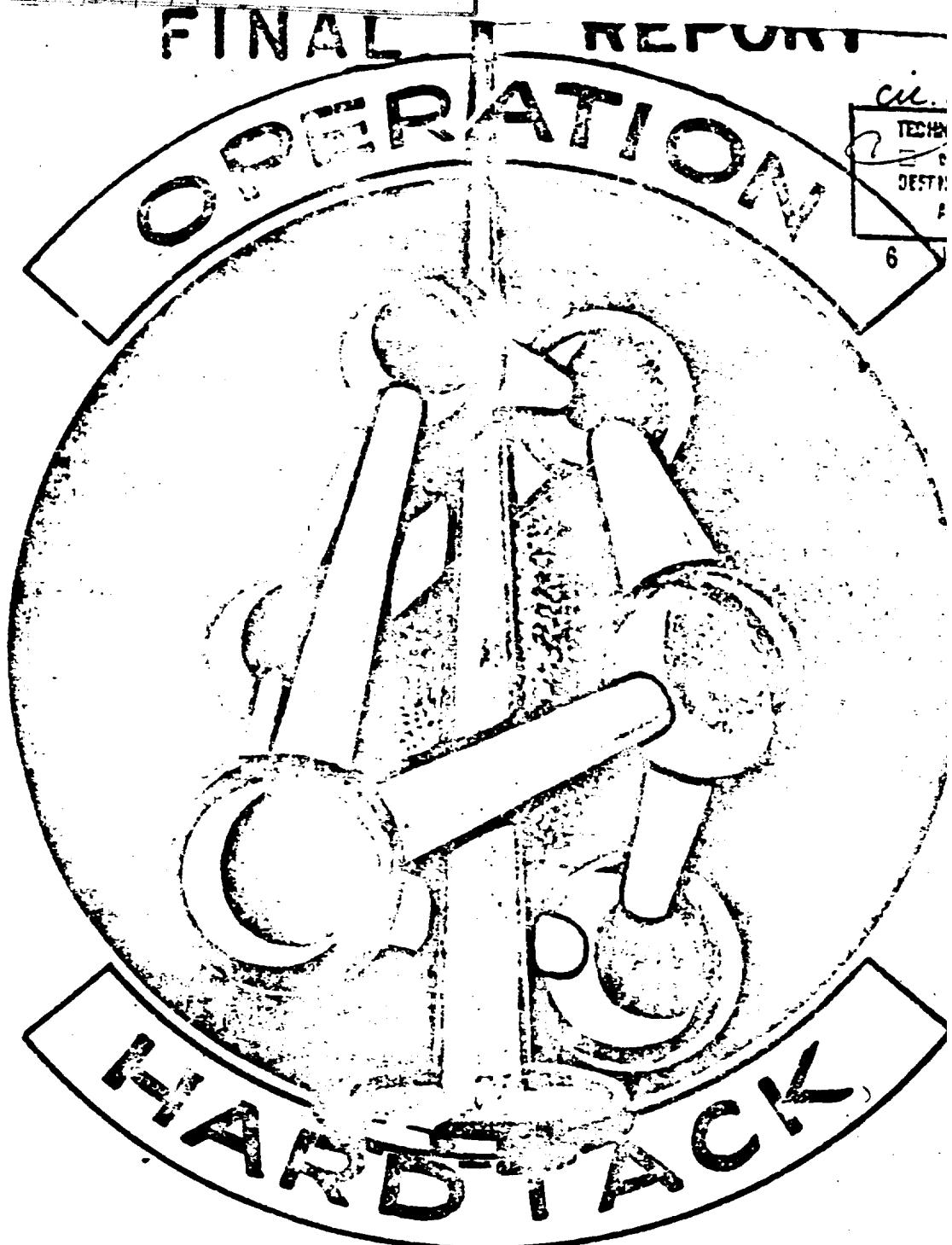
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H.A.033

FINAL REPORT

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6



PHASE II (NTS)

AEROMARINE TEST GROUP (I)

422-80827  
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WT-1677

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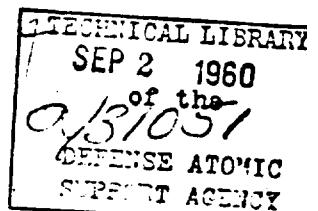
*Operation*

# HARDTACK

*April - October 1958*

Projects 2.9/2.12b

GAMMA DOSE from VERY-LOW-YIELD BURSTS(U)



Issuance date: August 24, 1960

HEADQUARTERS FIELD COMMAND  
DEFENSE ATOMIC SUPPORT AGENCY  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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*[Signature]* *[Signature]*  
Dennis V. Muffly, BN

5/13/96  
**DATE**

50008hb

# OPERATION HABITAT

## PHASE II

ON - SITE RAD - SAFE  
SUPPORT REPORT

OTO 58 - 5

THE REYNOLDS ELECTRICAL AND ENGINEERING COMPANY  
RADIOLOGICAL SAFETY AND TECHNICAL SERVICES DEPARTMENT  
RADIOLOGICAL SAFETY DIVISION

NEVADA TEST SITE

5000867

WT-1661

10120200 56

Operation

# HARDTACK

April - October 1955

Project 6.14

PROOF TEST OF AN/TVS-1 (XE-3) FLASH-RANGING EQUIPMENT

HE 909  
WMT 7PM  
LMB 265  
DOE Amt

Issuance Date: January 24, 1961

HEADQUARTERS FIELD COMMAND  
DEFENSE ATOMIC SUPPORT AGENCY  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

50008h8

WT-74

Copy No. 101-A  
2167A

RIDGEFORT-MINTHOLE  
NEVADA PROVING GROUND Sandfire

March - June 1953

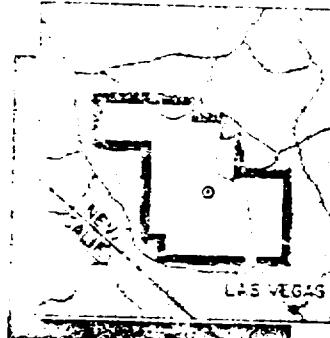
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BY AUTHORITY OF

BY

Project 4.2

DIRECT AIR BLAST EXPOSURE EFFECTS IN ANIMALS



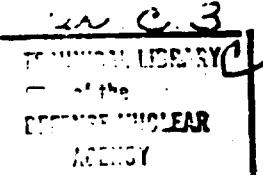
STATUS VERIFIED UNCLASSIFIED	DATE 20 JUL 83
CCL 41688	REF ID: A61361
<i>Re: v 7, AIX</i>	5/13/96
Reun. w Murphy BN	DATE

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1 59

HEADQUARTERS FIELD COMMAND, ARMED FORCES SPECIAL WEAPONS PROJECT  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

WT-1708



JUL 2 1974

Operation

# HARDTACK

April - October 1958

Project 26.7

STRUCTURAL RESPONSE AND PERMANENT  
DISPLACEMENT MEASUREMENTS

Issuance Date: October 28, 1960

HEADQUARTERS FIELD COMMAND  
DEFENSE ATOMIC SUPPORT AGENCY  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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26.1

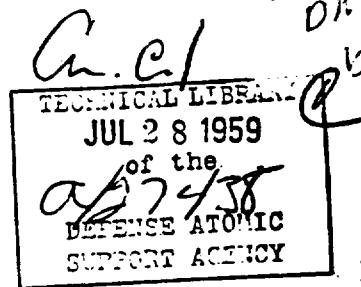
UNCLASSIFIED

POSTSHOT DISTURBANCES AND SURFACE MOTIONS--  
OPERATION HARDTACK-II

Classification: Unclassified  
By Aut. TID-1400-52  
By A. Kavadas Date 7-21-76.

Prepared for:

LAWRENCE RADIATION LABORATORY LIVERMORE, CALIFORNIA



2657-TR-1

Proj 26.1

\*SRI

STATUS VERIFIED UNCLASSIFIED	
OFC 34775	
<u>D. E. — AD</u>	<u>5/13/96</u>
Dennis W. Murphy BN	
DATE	

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ITR-1/04

AEC Category: NUCLEAR EXPLOSIONS-PE  
APPLICATIONS  
Military Category: 14

Operation

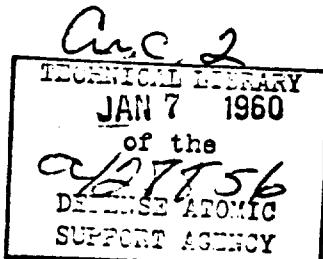
# HARDTACK

April - October 1958

Project 26.3

GROUND MOTION MEASUREMENTS

Issuance Date: December 22, 1959



HEADQUARTERS FIELD COMMAND  
DEFENSE ATOMIC SUPPORT AGENCY  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

5000872

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*Operation*

# HARDTACK

*April - October 1958*

Project 6.15

ELECTROMAGNETIC PULSES from  
LOW-YIELD BURSTS (U)

Issuance Date: August 31, 1960

HEADQUARTERS FIELD COMMAND  
DEFENSE ATOMIC SUPPORT AGENCY  
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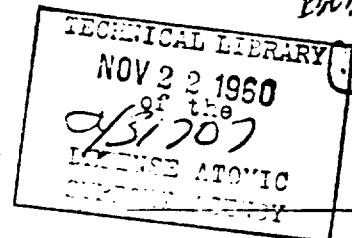
*Operation*

# HARDTACK

*April - October 1958*

Project 2.13

GAMMA RADIATION and INDUCED ACTIVITY  
from VERY-LOW-YIELD BURSTS (U)



Issuance Date: October 28, 1960

HEADQUARTERS FIELD COMMAND  
DEFENSE ATOMIC SUPPORT AGENCY  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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Deputy ADC	5/13/96
Dennis W. Murphy, DSN	

DATE

Operation

# HARDTACK

April - October 1958

Project 4.2

#904  
DNT 1175  
V.OE 1341

## EFFECTS OF VERY-LOW-YIELD BURSTS ON BIOLOGICAL SPECIMENS (SWINE AND MICE) (U)

Issuance Date: September 15, 1961

HEADQUARTERS FIELD COMMAND  
DEFENSE ATOMIC SUPPORT AGENCY  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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C 180A

*Operation*

# HARDTACK

April - October 1958

Projects 2.4a/2.11/2.12a

NEUTRON FLUX from VERY-LOW-YIELD BURSTS (U)

Issuance Date: August 31, 1960

HEADQUARTERS FIELD COMMAND  
DEFENSE ATOMIC SUPPORT AGENCY  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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5/13/96

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To DUE

12 June 1982

4K

① H804 difficult GRIND & SCOUR ✓ -

⑥ DN12 - 3580 simulated ✓ -

⑦ H801 DN12 - 6039 F Mines find ✓

⑧ H801 WT 711 ✓ -

⑨ H807 WT 735 ✓ -

⑩ H808 WT 1824 ✓ -

⑪ H809 WT 710 ✓ -

⑫ H810 WT 414 ✓ -

⑬ H810 XRD 16.2 ✓ -

⑭ H810 RPT MINE 16.0 ✓ -

⑮ H810 WT 247 ✓ -

⑯

867A WT 602 ✓

~~High class forces (for safety)~~

Retained for 1202

⑰ Extracts of previous log

(2) 10 DRAFT  
FEBRUARY 1982

DNA 6039F

# Operation ~~ARGUS SERIES-A REPORT~~ ~~ON TASK FORCE 88~~ 1958

~~K-Tempo~~  
818 State Street  
Santa Barbara, California 93101

HREC  
visit 112  
Rec-2x 61

~~CONTRACT NO. DNA 001-79-C-0472~~

Prepared for:  
Director  
DEFENSE NUCLEAR AGENCY  
Washington, D.C. 20305

5 106

5000878

(3)

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3/16

# NEVADA PROVING GROUNDS

AUG 4 1954

March - June 1953

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Dec 5/53

Project 1.1b

BY AUTHORITY OF.....

AIR PRESSURE AND GROUND  
SHOCK MEASUREMENTS

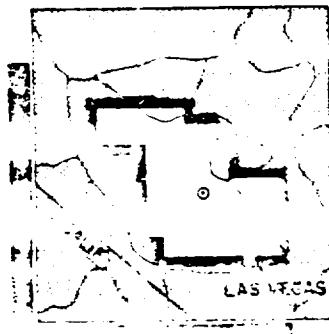
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Energy Act 1954

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HEADQUARTERS FIELD COMMAND, ARMED FORCES SPECIAL WEAPONS PROJECT  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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DATE

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C-216A  
TECHNICAL DATA  
of the  
DEFENSE ELECTRONIC  
AGENCY

NOV 29 1974

# BUSTER - JANGLE

NEVADA PROVING GROUNDS  
OCTOBER - NOVEMBER 1951

Project 10.10

## BLAST MEASUREMENTS

Classification: CONFIDENTIAL Change to CONFIDENTIAL

By Authority of FED 1373 6/3/71

By J. Schmitz Date 5 Jan 75

## DESCRIPTION DATA

STATUS VERIFIED UNCLASSIFIED
CJC 39705
Gen. Sec. & Doc
Dennis W. Murphy, BN
DATE 5/13/96

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(3)

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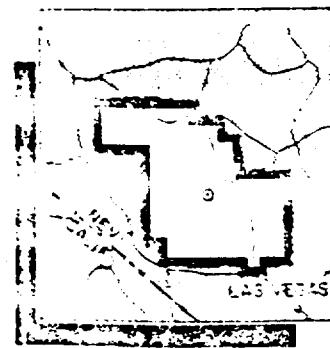
UPDATING INFORMATION  
UPON PROJECT 1.1A AND 1.2  
NEVADA PROVING GROUNDS

March - June 1953

Projects 1.1a and 1.2

AIR BLAST MEASUREMENTS

DNA # 869



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HEADQUARTERS FIELD COMMAND, ARMED FORCES SPECIAL WEAPONS PROJECT  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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IHR-1324

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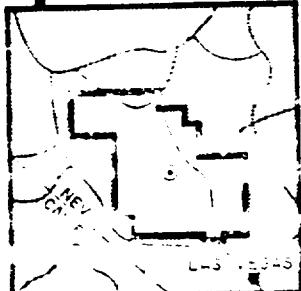
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U.S. ATOMIC ENERGY COMMISSION

Fugget

DO NOT BUY

NEVADA TEST SITE

5 MARCH 1962



*Final Report*

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BY

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PERMANENT ANGULAR DISPLACEMENT OF  
CYLINDRICAL MODELS BURIED IN BASALT  
NEAR AN EXPLOSION CRATER

FORMERLY  
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Roland H. Carlson and Wayne A. Roberts

THE BOEING COMPANY

ISSUED 25 JULY 1962

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SPECIAL WEAPONS PROJECT

Copy No. 201 A

*Observations*  
**UPSHOT-KNOTHOLE**  
NEVADA PROVING GROUNDS

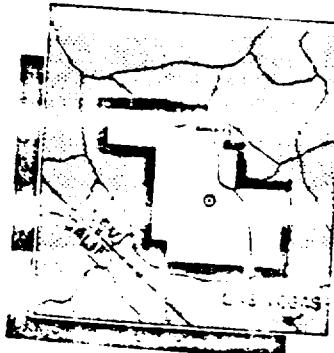
March - June 1953

Classification **CONFIDENTIAL**  
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Project 3.24

EFFECTS OF AN AIR BURST ATOMIC EXPLOSION ON  
LANDING VEHICLES TRACKED (NUCLEAR)

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HEADQUARTERS FIELD COMMAND, ARMED FORCES SPECIAL WEAPONS PROJECT  
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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AMC: Dennis W. Murphy	
DATE: 7/24/96	
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PACIFIC  
PROVING  
GROUND

DTL-80, 0371

Spring  
1956

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SRP-12-5/V-1

REPORT OF THE MANAGER  
ALBUQUERQUE OPERATIONS

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**OPERATION CROSSROADS  
DIRECTOR OF SHIP MATERIAL  
JOINT TASK FORCE ONE**

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See u ADC  
Dennis W. Murphy, B.W.

5/13/96

REG. N° 072

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COMINT DIRECTOR'S BUREAU

DAMAGED STRUCTURES SURVEY AND ANALYSIS

November 1952

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DOE/HQ Letter Jan 1946	1. CLASSIFICATION RETAINED
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Dennis W. Murphy, Jr.

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Case No. 019 A

EXEMPTIONS REQUESTED  
SECTION 144B, ATOMIC ENERGY ACT 1954

Information requested

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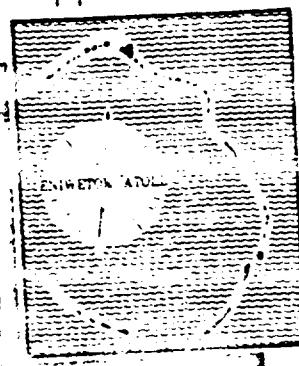
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Project 6.1

AIR SHOCK PRESSURE-TIME VS DISTANCE



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TEAPOT:

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- 2) "Dir  
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by the Department of Defense.
- 3) Direct the Test Manager to execute the Dept.  
of Defense sponsored programs and authorize  
him to deal directly with the Commanding  
General, Field Command, Armed Forces Special  
Weapons Project, in matters pertaining to the  
military portions of the joint operations."
- 4) Authorize the Test Manager, in conjunction with  
the Commanding General, Field Command, Armed  
Forces Special Weapons Project, to arrange the  
details of a mutually satisfactory joint organiza-  
tion for Operation TEAPOT, subject to final approval by  
the Director, Division of Military Applications, Atomic  
Energy Commission, and the Chief, Armed Forces Special Weapons Proj.

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: 13 Dec 1954

Loper, Assistant to  
the Secretary for  
Atomic Energy

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**EFFECTS OF WEAPONS  
DETONATED AT  
EXTREMELY HIGH ALTITUDES**

**(U)**

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A SUMMARY OF RESULTS OF THE ARGUS EXPERIMENT  
AS PRESENTED ON 30 JANUARY 1959 IN A BRIEFING  
FOR THE ADVANCED RESEARCH PROJECTS AGENCY

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BY AUTHORITY OF *AC-2 10-9 28-6-1959*

BY *W. C. L. [Signature]*

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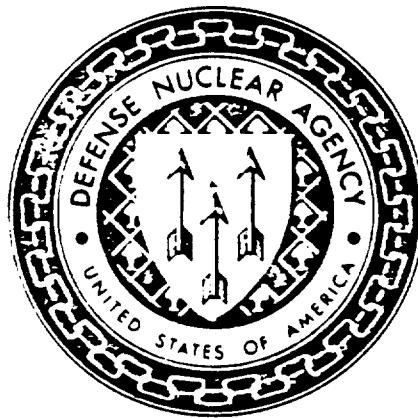
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# OPERATION RANGER

Shots ABLE, BAKER,  
EASY, BAKER-2, FOX

25 JANUARY-6 FEBRUARY 19



A  
DNA:  
ONE

United States Atmospheric Nuclear Weapons Tests  
Nuclear Test Personnel Review

TECHNICAL REVIEW COPY

Prepared by the Defense Nuclear Agency as Executive Agency  
for the Department of Defense

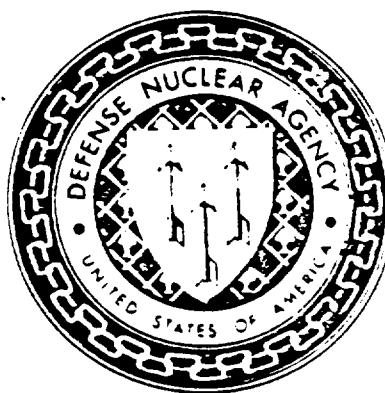
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DTSA 6011F

# OPERATION UPSHOT-KNOTHOLE

## 1953



1. DOE K 3/2/82

United States Atmospheric Nuclear Weapons Tests  
Nuclear Test Personnel Review

Prepared by the Defense Nuclear Agency as Executive Agency  
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November 1955

RECOVERY OF RADIOACTIVE IODINE AND STRONTIUM  
FROM HUMAN URINE—OPERATION TEAPOT (S)

James B. Hartgering  
Ariel G. Schrot  
Edward C. Knoblock  
Alvin G. Burstein  
Richard D. McIver  
James E. Roberts

Department of Biophysics

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# Operation UPSHOT-KNOTHOLE

## NEVADA PROVING GROUNDS

March - June 1953

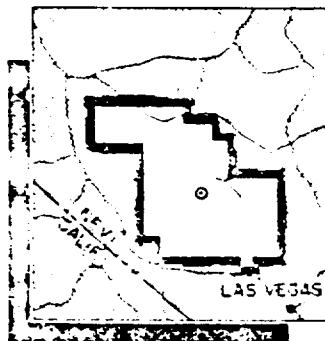
Project 3.27

EFFECTS OF ATOMIC EXPLOSIONS ON FIELD  
MEDICAL INSTALLATIONS EQUIPMENT

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NUCLEAR TESTS - 1951  
25 FEB 1951

# UPSHOT-KNOTHOLE

## NEVADA PROVING GROUNDS

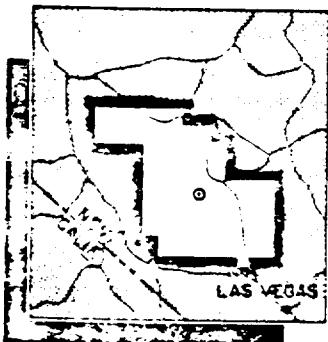
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## THE BIOLOGICAL EFFECTS OF NEUTRONS

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Operation  
UPSHOT-KNOTHOLE  
NEVADA PROVING GROUNDS

March - June 1953

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RADIOLOGICAL SAFETY OPERATION

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By Author John C. Murphy

By John C. Murphy

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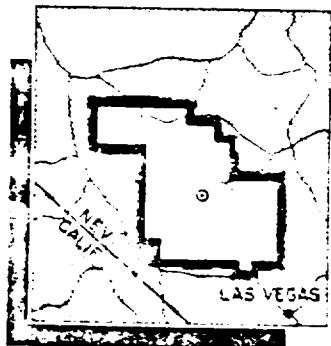
*Observing*  
**UPSHOT-KNOTHOLE**  
NEVADA PROVING GROUNDS

March - June 1953

1953  
TEST PROJECT  
Nevada Proving Grounds

ACTIVITIES OF THE ARTILLERY TEST UNIT

*H&H  
Unit  
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**UPSHOT-KNOTHOLE**

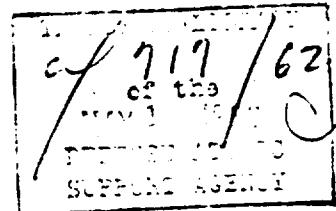
NEVADA PROVING GROUNDS

March - June 1953

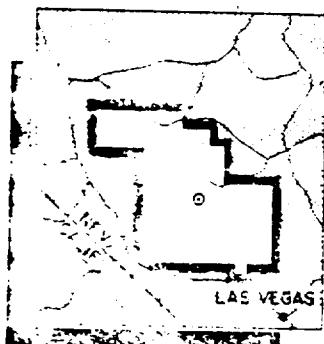
Project 18.3

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HIGH-DISPERSION SPECTROGRAPHIC  
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## **UPSHOT-KNOTHOLE**

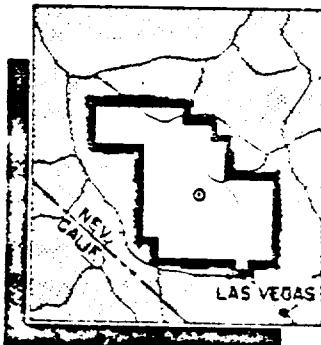
### **NEVADA PROVING GROUNDS**

March - June 1953

Project 6.7

MEASUREMENTS AND ANALYSIS OF  
ELECTROMAGNETIC RADIATION FROM  
NUCLEAR DETONATIONS

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8/13  
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March - June 1953

Project 8.12b

SUPPLEMENTARY PRESSURE MEASUREMENTS  
REPORT TO THE TEST DIRECTOR

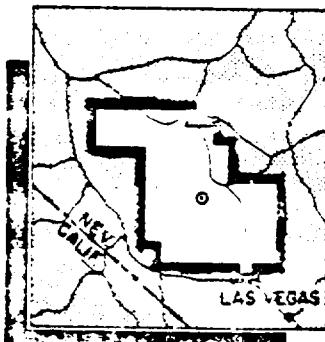
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# UPSHOT-KNOTHOLE

## NEVADA PROVING GROUNDS

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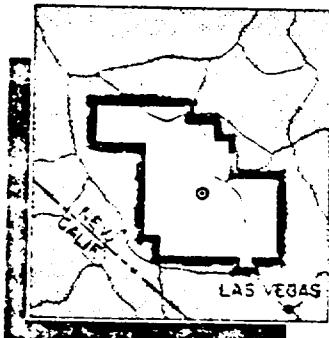
Project 8.11a

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AND INTERIOR KINDLING FUELS

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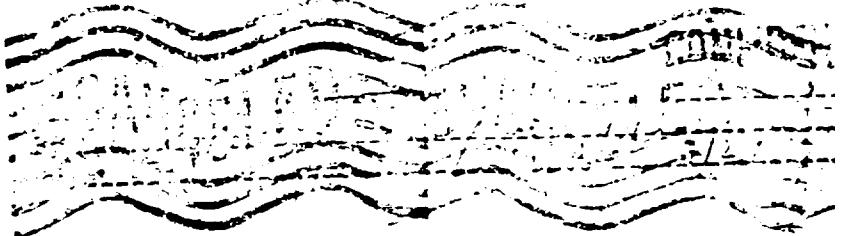
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# UPSHOT-KNOTHOLE

## NEVADA PROVING GROUNDS

March - June 1953



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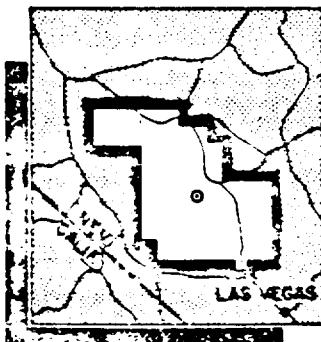
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March - June 1953

Project 8.2

MEASUREMENT OF THERMAL RADIATION  
WITH A VACUUM MICROPHONE

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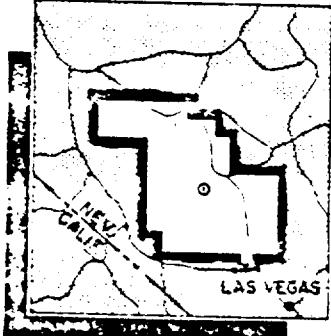
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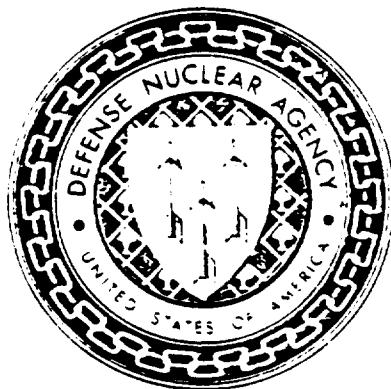
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**The First Five Tests of the  
BUSTER-JANGLE Series  
22 October—5 November 1951**

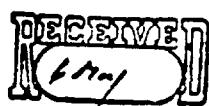


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**United States Atmospheric Nuclear Weapons Tests  
Nuclear Test Personnel Review**

5 62

Prepared by the Defense Nuclear Agency as Executive Agency  
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# **OPERATION DOMINIC II**

**Shots LITTLE FELLER II,  
JOHNIE BOY, SMALL BOY,  
LITTLE FELLER I  
7 JULY-17 JULY 1962**

1st 800



**United States Atmospheric Nuclear Weapons Tests  
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7. AUTHOR(s)  Jean Ponton, Carl Maag, Stephen Rohrer, Robert Shepanek	8. CONTRACT OR GRANT NUMBER(s)  DNA #001-79-C-0473	
9. PERFORMING ORGANIZATION NAME AND ADDRESS  JRB Associates 8400 Westpark Drive McLean, Virginia 22102	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS  D62704H U990AXM K506 08	
11. CONTROLLING OFFICE NAME AND ADDRESS  Director Defense Nuclear Agency Washington, D.C. 20305	12. REPORT DATE	13. NUMBER OF PAGES
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
DOMINIC II LITTLE FELLER II JOHNIE BOY	SMALL BOY LITTLE FELLER I SUNBEAM	Exercise IVY FLATS Atmospheric Nuclear Weapons Tests
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)	<p>This report describes the activities of an estimated 3,000 DOD personnel, both military and civilian, in Operation DOMINIC II, the eighth peacetime series of nuclear weapons tests, conducted in Nevada from 7 July through 17 July 1962. Activities engaging DOD personnel included the Exercise IVY FLATS troop maneuver, joint DASA and AEC scientific experiments to evaluate the effects of the nuclear devices, and air support.</p>	

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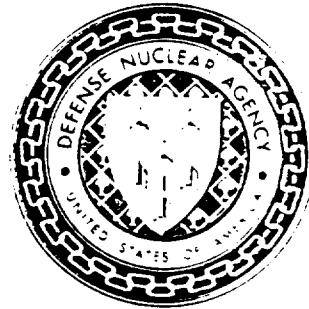
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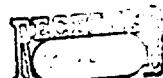
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United States Atmospheric Nuclear Weapons Tests  
Nuclear Test Personnel Review

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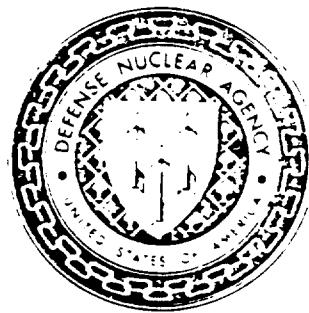
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# PROJECT TRINITY

## 1945-1946



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E1918  
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Von Linde  
D-3 May 11

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7. AUTHOR(s) Carl Maag, Steve Rohrer		6. PERFORMING ORG. REPORT NUMBER JRB 2-816-03-423-00
8. CONTRACT OR GRANT NUMBER(s)		DNA #001-79-C-0473
9. PERFORMING ORGANIZATION NAME AND ADDRESS JRB Associates 8400 Westpark Drive McLean, Virginia 22102		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS Subtask U99QAXM K506 08
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) TRINITY Personnel Dosimetry Los Alamos Scientific Laboratory Radiation Exposure Alamogordo Bombing Range Nuclear Weapons Testing Manhattan Engineer District Manhattan Project		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report describes the activities of an estimated 1,000 personnel, both military and civilian, in Project TRINITY, which culminated in detonation of the first nuclear device, in New Mexico in 1945. Scientific and diagnostic experiments to evaluate the effects of the nuclear device were the primary activities engaging military personnel.		

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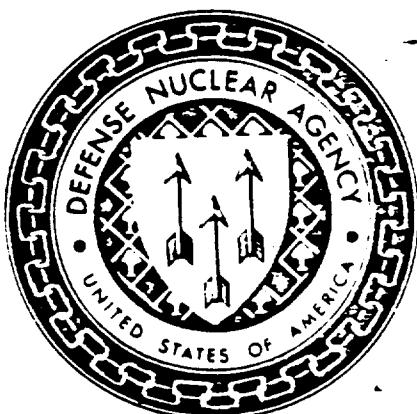
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# OPERATION HARDTACK II

## 1958



H860

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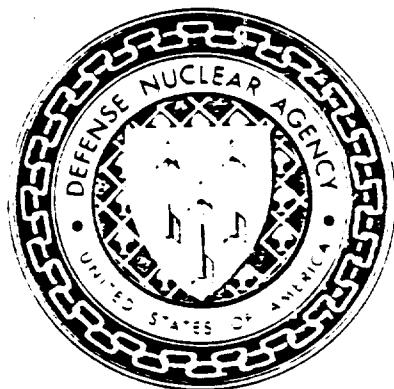
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# SHOTS

## SUGAR AND UNCLE

The Final Tests of the  
BUSTER-JANGLE Series  
19 November—29 November  
1951



#859  
6025

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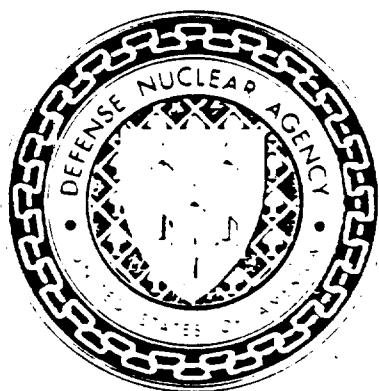
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DRA 11 Nov  
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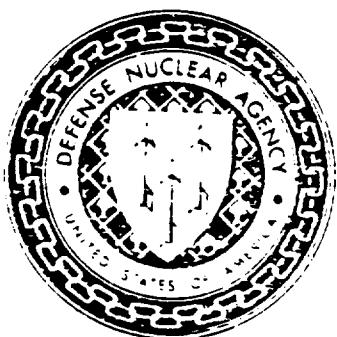
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# SHOTS ANNIE TO RAY

The First Five Tests of the  
UPSHOT-KNOTHOLE Series  
17 MARCH - 11 APRIL 1953



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DNA - 11 May  
1953

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THE RESIDUAL RADIATION PATTERN FOR VARIOUS SURFACE  
WIND VELOCITIES - UNDERWATER ATOMIC BURST

of the

AFSWP-155

ARMED FORCES  
SPECIAL WEAPONS PROJECT  
APR 11 1952

Staff Study by Maj. T. A. Gibson, Jr., USA, 14 March 1952

In the event of an underwater atomic explosion in a harbor, it is of interest to have estimates of the extent and magnitude of the residual radiation field as a function of surface wind velocity. It is possible to make such estimates by using the information available from the Bikini-Baker underwater explosion.

Figure 8.101 of "The Effects of Atomic Weapons" (1) will be assumed to be correct. (Assumption No. 1) This gives the dose rate at 1 hour after the explosion as observed on ships. Had the contamination fallen on land, the rates would be increased by about a factor of four due to the absence of run off and the presence of a greater contaminated area. That is, after a short time, a ship is a limited contaminated area surrounded by an essentially uncontaminated area. The final results of this paper should be multiplied by 4 to be made applicable to land adjacent to an underwater burst.

Roger Revelle, in his "Characteristics of the Base Surge," (2) gives the observed movement of the Bikini-Baker surge. He also gives predicted surge movement for other surface winds. These will be assumed to be correct. (Assumption No. 2)

The pattern of the Bikini residual contamination was observed to lie in an area almost identical with the area covered by the base surge. It will be assumed that all of the residual contamination comes from the base surge. (Assumption No. 3)

The fourth and final assumption will be that the time rate of deposition of contaminant can be expressed as:

$$\frac{dD}{dt} = K/t^2 \quad \text{where: } K \text{ is a constant to be determined}$$

Integrating and letting,  $t_0$  = time of explosion

$t_1$  = time surge reaches an area

$t_2$  = time surge leaves an area

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$$D_{t_2} = \int_{t_1}^{t_2} K/t^2 dt$$

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*Operation*

# JANGLE

NEVADA PROVING GROUNDS  
OCTOBER - NOVEMBER 1951

Project 6.1

EVALUATION OF MILITARY RADIAC  
EQUIPMENT

*H.P/M*  
*DDN 644-5*  
*DOC M*

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By Authority of DDCI SC-3, mem 12/31/66  
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ARMED FORCES SPECIAL WEAPONS PROJECT  
WASHINGTON, D.C.

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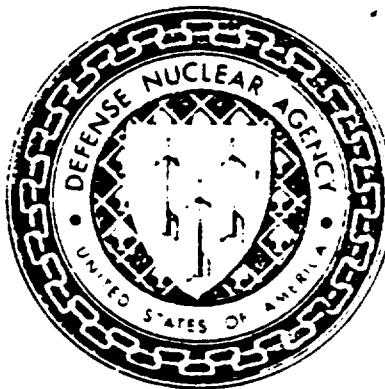
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# SHOTS ENCORE TO CLIMAX

## The Final Four Tests of the UPSHOT-KNOTHOLE Series 8 MAY - 4 JUNE 1953



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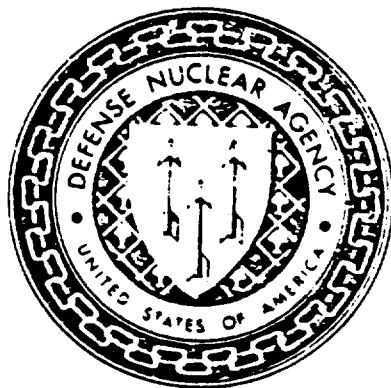
3 94  
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2017

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# SHOTS ABLE, BAKER, CHARLIE, AND DOG

## The First Tests of the TUMBLER-SNAPPER Series 1 APRIL - 1 MAY 1952



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- OF 32482

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Nuclear Test Personnel Review

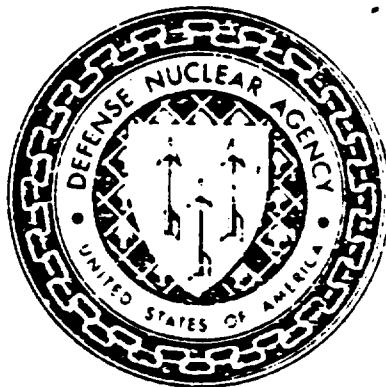
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DNA G

**SHOT  
BADGER**  
**A Test of the  
UPSHOT-KNOTHOLE Series**  
**18 APRIL 1953**



DNA - 23 Dec  
note 8 3/24/78

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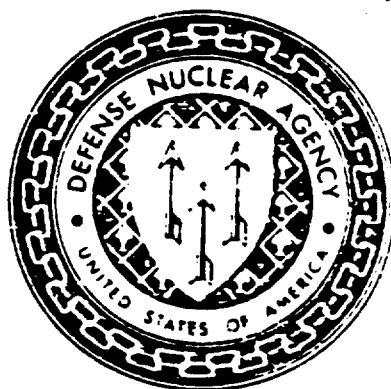
3 92

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DATA FILE

# SHOT SIMON

A Test of the  
**UPSHOT-KNOTHOLE Series**  
**25 APRIL 1953**



DNA 23 Nov 82

DOC 40th 3/24/82

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Nuclear Test Personnel Review

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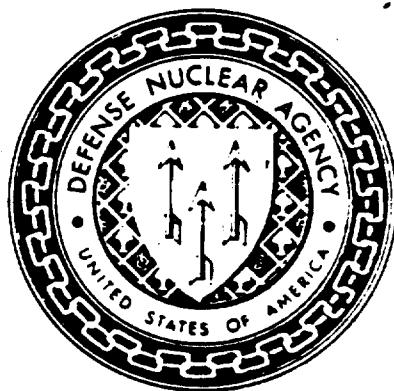
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# OPERATION TUMBLER-SNAPPER 1952

Page layouts!!!



3-107

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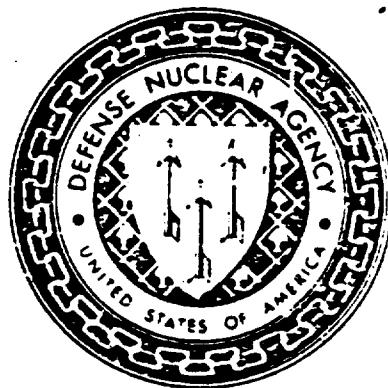
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# SHOTS EASY, FOX, GEORGE, AND HOW

## The Final Tests of the TUMBLER-SNAPPER Series 7 MAY - 5 JUNE 1952



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3-109

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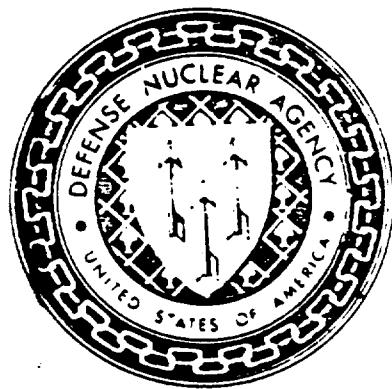
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# **PROJECTS GNOME AND SEDAN The PLOWSHARE Program**

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**United States Atmospheric Nuclear Weapons Tests  
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OPERATION SANDSTONE

of the  
DEFENSE ATOMIC  
SUPPORT AGENCY

# OPERATION SANDSTONE

## NUCLEAR EXPLOSIONS

1948



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ATOMIC ENERGY ACT OF 1946

80-2767

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Dennis W. Murphy BN ADC

5/13/96

DATE

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SCIENTIFIC DIRECTOR'S REPORT  
OF ATOMIC WEAPON TESTS  
AT ENTREROK, 1948

Annex 9

CONTAMINATION STUDIES

Part I

RESIDUAL CONTAMINATION IN THE CRATERS

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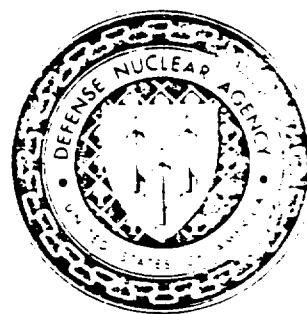
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# **PROJECTS GNOME AND SEDAN The PLOWSHARE Program**



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7. AUTHOR(s)  Inara Gravitis, Stephen Rohrer, Carl Maag	6. PERFORMING ORG. REPORT NUMBER  JRB 2-816-03-423-00	
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)  PLOWSHARE Nevada Test Site GNOME Carlsbad Test Site SEDAN Underground nuclear tests VELA UNIFORM Nonmilitary applications		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  This report describes the activities of DOD personnel and other participants in Projects GNOME and SEDAN, the first two nuclear tests of the PLOWSHARE program. The PLOWSHARE nuclear tests were conducted from 1961 to 1973 at the NTS and other locations. Activities engaging DOD personnel at GNOME and SEDAN included scientific experiments to improve U.S. capabilities in detecting underground nuclear explosions and to determine peacetime uses of nuclear explosives.		

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4.	H774	" " AIRMISSION Summary	✓ RTD
5	H772 GREENHOUSE	1st Draft	✓ RTD
6	H763 REDWING RHOSHEE	relook TEMA	✓ -RTD
7	H764 HARRYSAK W716D	DTL 020 013	✓ -RTD
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United States Atmospheric Nuclear Weapons Tests  
Nuclear Test Personnel Review

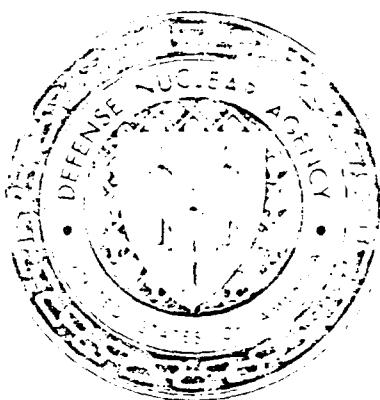
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... Agency as Executive Agency

THIRD DRAFT

REFERENCE  
MANUAL

Background Materials  
for the CONUS Volumes



United States Atmospheric Nuclear Weapons Tests  
Nuclear Test Personnel Review

Prepared by the Defense Nuclear Agency as Executive Agency  
for the Department of Defense

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# **THE PLOWSHARPE PROGRAM**

# United States Atmospheric Nuclear Weapons Tests Nuclear Test Personnel Review

Prepared by the Defense Nuclear Agency as Executive Agency  
for the Department of Defense

# **OPERATION DOMINIC II**

**Shots LITTLE FELLER II,  
JOHNNIE BOY, SMALL BOY,  
LITTLE FELLER I  
7 JULY-17 JULY 1962**



*RECEIVED  
7/17/62*

**United States Atmospheric Nuclear Weapons Tests  
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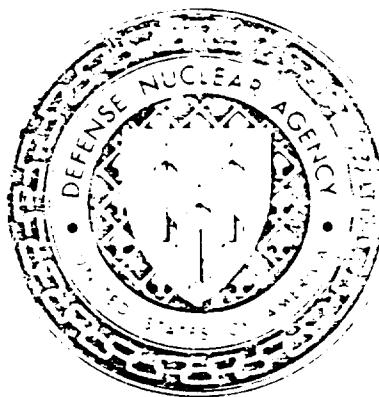
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Urgent see

25 Feb

ISC 17  
1st

905 SAE 78-782 "Calculator of Fission Product  
909 WT 1661 \*  
" 906 DOD 6038 Hardwick I Series  
890 WT 1644  
899 WT 1608  
898 WT 1715 Draft (SAE 2657-TR-1)  
897 ITI 1704  
RED WING Fort Sheet  
NTPR Fort Sheet

871

871 Dominick S 1st part 2nd part 1. Hr ed  
889 OTO 52-5 Open Hardwick II

872 JTF 7 CTG 7.3 Final Rpt

911 H & N Comptabon Report

906 WT 1662

905 WT 1681

904 WT 1663

903 WT 1679

908 WT 1677

902 WT 1664

910 FR 4940 TG (N)

681 NPL 4417

656 167 Open RED WING FIR

WT 381

WT 354 4-1.6

} to discuss with Cuds  
May not leave

all R.F'd 7 July 1985

R. J. V. C.  
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