

United States Government

Department of Energy

memorandum

DATE: November 15, 1984

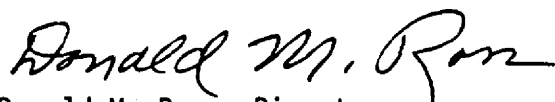
REPLY TO: PE-241
ATTN OF:

SUBJECT: Declassification of Documents Requested by Representative Ottinger

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

Representative Richard L. Ottinger, 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. Ottinger. Identify those which must remain classified and I will transmit them separately according to accepted procedures.



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

Attachment

C 1237

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513

This Pkg Downgrade

908 ✓ SAE 7P-2+2 Calculator at Finner Brook

909 ✓ WT 1661

896 ✓ DMT 6038 Handbook I Series

890 ✓ WT 744

899 ✓ WT 1708

898 ✓ WT 1715 Draft SAE 2657-TM-1

897 ✓ IIR 1204

✓ RED in WE Fork Sheet

✓ NIPR Fork Sheet

~~871 ✓ ~~SAE 7P-2+2~~ ~~Calculator~~~~

~~871 ✓ ~~Handbook I~~ ~~at Finner Brook~~~~

~~899 ✓ ~~CTC SP-5~~ ~~Open Handbook II~~~~

872 ✓ JTF 7 CTC 7.3 Final Rpt

911 ✓ HIN Completion Report

906 ✓ WT 1662

905 ✓ WT 1661

904 ✓ WT 1663

903 ✓ WT 1629

908 ✓ WT 1677

900 ✓ WT 1664

910 ✓ FR 4940 TG (N)

891 ✓ NRL 4417

~~871 ✓ ~~SAE 7P-2+2~~ ~~Calculator~~~~

WT 384 ✓

WT 384 ✓

} to discuss with Cech
How not leave

✓
CALCULATION OF FISSION PRODUCT
· GAMMA RAY AND BETA SPECTRA
AT SELECTED TIMES AFTER FAST FISSION
OF U238 AND U235 AND
THERMAL FISSION OF U235

—————
DRAFT FINAL

PREPARED BY

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

PREPARED FOR

NATIONAL BUREAU OF STANDARDS
PURCHASE ORDER 808946

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ONS 262
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box 3/1/50

FEBRUARY 23, 1979

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DRAFT

Subject: Nuclear Test Personnel Review (NTPR)

U 9/1/83

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 (DoD) personnel, military and civilian, were involved in this testing and many received low-level ionizing 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.

The first indication that former test participants might be experiencing adverse health effects possibly 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 all personnel who had been present at that shot. By late 1977, a DoD ad hoc committee, working together 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. CDC calculations indicated the expected incidence of leukemia would be three to four cases. CDC under-

FACT SHEET

U.S. 3/9/57

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^a

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 off 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:

^aYields 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
PK 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 ^a
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

^aOne 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

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RD 4410
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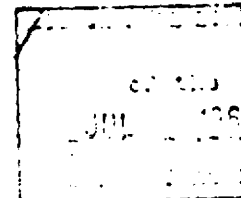
OPERATION CASTLE

ATOMIC ENERGY DATA
SIGMA CATEGORY 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
Denial

Red skeleton
not complete

07L-012,948
07L-010-710



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NAVAL RESEARCH LABORATORY

Washington, D.C.

EXCLUDED FROM GENERAL DECLASSIFICATION
SCHEDULE

RESTRICTED DATA

Atomic Energy Act of 1946

SECRET

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Title Page Only

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UNCLASSIFIED REVIEW AUTHORIZED BY:	DETERMINATION (CIRCLE NUMBER(S))
Duch 49 Ltr Jan 1996	1 CLASSIFICATION REVOKED
REVIEWER (ADD):	2 CLASSIFICATION CANCELLED TO:
NAME: Dennis W. Murphy	3 CONTAINS NO DDP CLASSIFIED INFO
DATE: 7/24/96	4 COORDINATE WITH:
	5 CLASSIFICATION CANCELLED
	6 CLASSIFIED INFO BRACKETED
	7 OTHER (SPECIFY):

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JOINT TASK FORCE SEVEN
COMMANDER TASK GROUP 7.3

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FINAL REPORT
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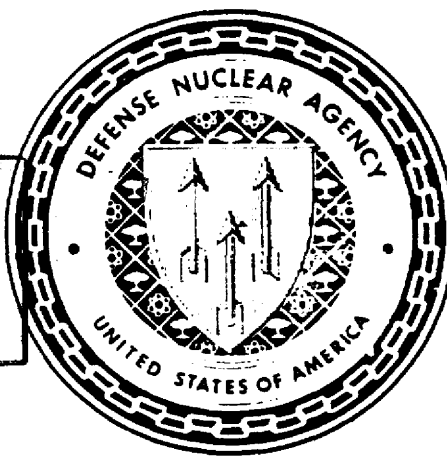
OPERATION HARDTACK I 1958

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Dennis M. [unclear] B.N.
5/17/96
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United States Atmospheric Nuclear Weapons Tests
Nuclear Test Personnel Review

RECEIVED
9/7/61

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

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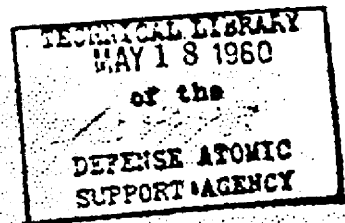
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WT-1004

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Operation

HARDTACK

April - October 1958

Project 4.3

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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5/13/96
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REPORT

OPERATION HARDHACK, PHASE II

ACTING DIRECTOR

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5/13/96

Dennis W. Murphy on

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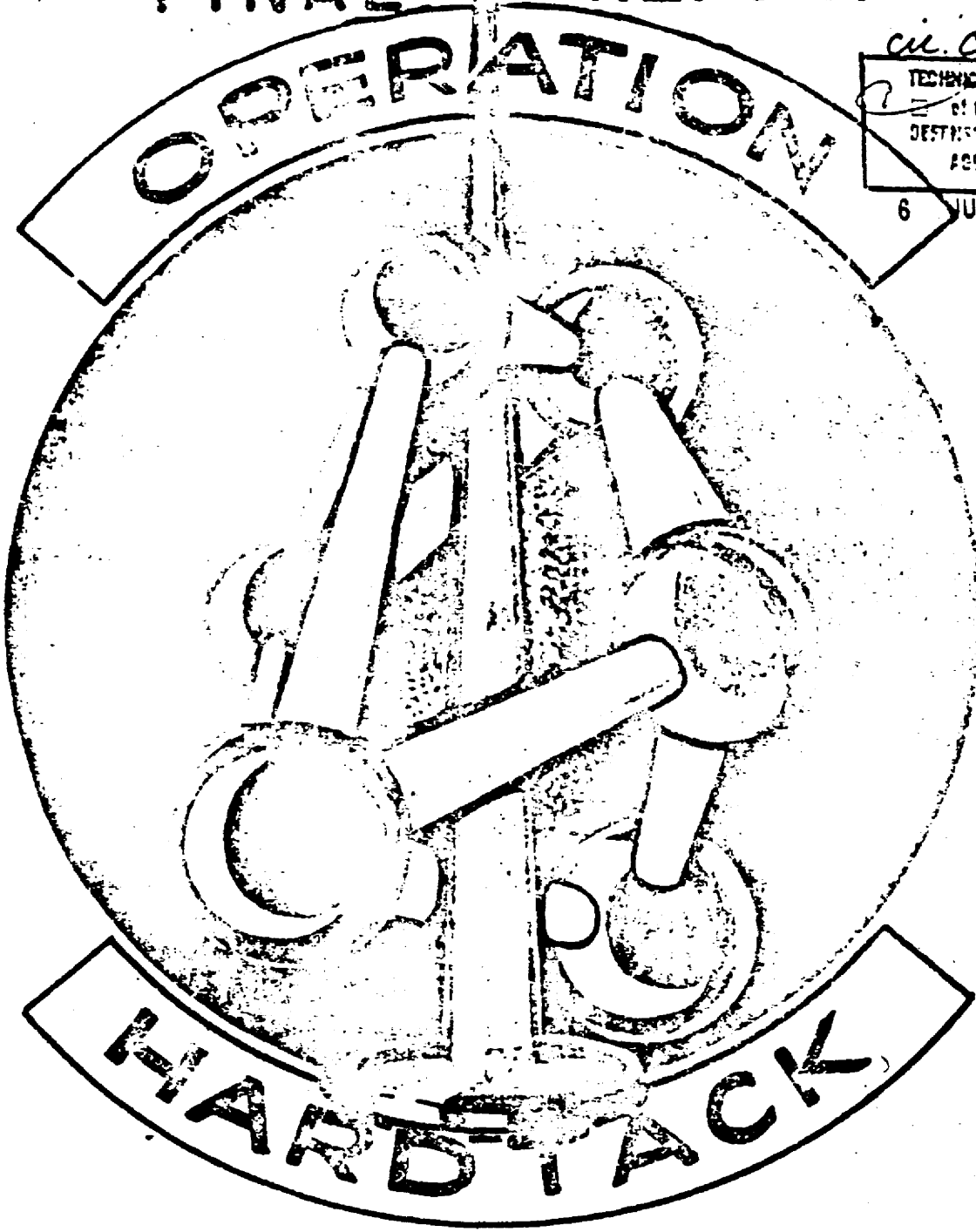
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FINAL REPORT



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PHASE II (NTS)
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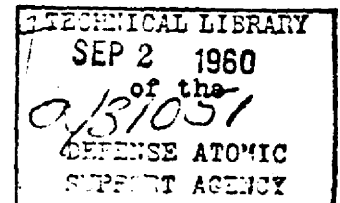
Operation

HARDTACK

April - October 1958

Projects 2.9/2.12b

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



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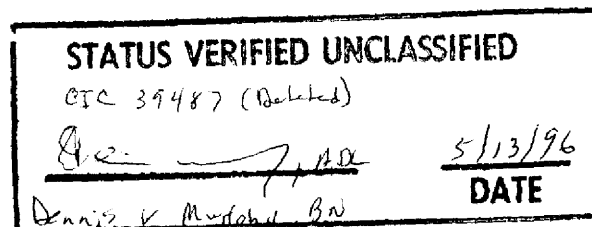
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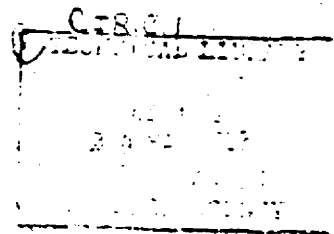


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OPERATION HARDTACK

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

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WT-1661

Operation

HARDTACK

April - October 1958

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7/218
of 118
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DEFENSE ATOMIC SUPPORT AGENCY

Project 6.14

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

15909
1005 7/25
1005 2/25
1005 1/25

Issuance Date: January 24, 1961

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DEFENSE ATOMIC SUPPORT AGENCY
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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UPSHOT-KNOTHOLE

NEVADA PROVING GROUNDS

March - June 1953

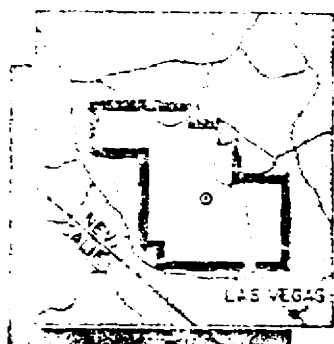
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Project 4.2

DIRECT AIR BLAST EXPOSURE EFFECTS IN ANIMALS

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CEC 41688

De W. Murphy *5/13/96*
DATE



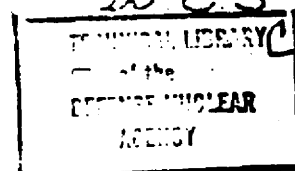
HEADQUARTERS FIELD COMMAND, ARMED FORCES SPECIAL WEAPONS PROJECT
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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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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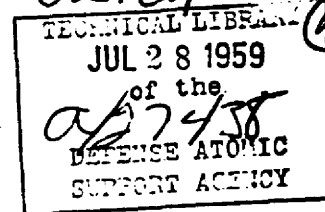
UNCLASSIFIED

POSTSHOT DISTURBANCES AND SURFACE MOTIONS-- OPERATION HARDTACK-II

Classification (2) _____ (3) _____ to Uncl.
By Authority TID-140-52
By A. Kavadias Date 7-21-76

Prepared for:

LAWRENCE RADIATION LABORATORY LIVERMORE, CALIFORNIA



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CFC 34775	
<u>De w - ADC</u>	<u>5/13/96</u>
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APPLICATIONS
Military Category: 14

Operation

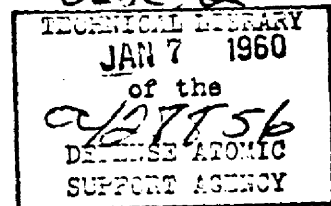
HARDTACK

April - October 1958

Project 26.3

GROUND MOTION MEASUREMENTS

Issuance Date: December 22, 1959



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DEFENSE ATOMIC SUPPORT AGENCY
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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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
SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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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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Operation

HARDTACK

April - October 1958

Project 4.2

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

#904

DNA 1/12/6

VOC 12/1/8

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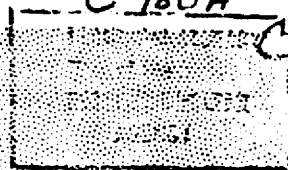
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Projects 2.4a/2.11/2.12a

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

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W44 13/13

Issuance Date: August 31, 1960

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SANDIA BASE, ALBUQUERQUE, NEW MEXICO

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② DNIA -3586 sanitized ✓ -

③ HPCY DNIA -6039 ✓ AKES Final ✓ -

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④ HPCY WT 711 ✓ -

⑤ HPCY WT 735 ✓ -

⑥ HPCY ~~WT~~ WT 1824 ✓ -

⑦ HPCY WT 710 ✓ -

⑧ HPCY WT 414 ✓ -

⑨ HPCY XPOS H.2 ✓ -

⑩ HPCY Rpt. Mergers ALLO ✓ -

⑪ HPCY WT 641 ✓ -

~~⑫ HPCY [REDACTED]~~

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~~Reference to [REDACTED]
of [REDACTED] of [REDACTED]~~

2

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FEBRUARY 1982

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Operation

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~~Kenneth Tompo~~

~~848 State Street~~

~~Santa Barbara, California 93101~~

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Prepared for:

Director

DEFENSE NUCLEAR AGENCY

Washington, D.C. 20305

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NEVADA PROVING GROUNDS

AUG 4 1974

March-June 1953

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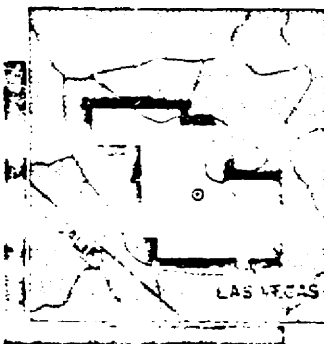
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Project 1.1b

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AIR PRESSURE AND GROUND
SHOCK MEASUREMENTS

Energy Act 1954



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

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WT-415

File No. 8 A

WT-415

TECHNICAL DIVISION
of the
DEFENSE NUCLEAR
AGENCY

APR 29 1974

BUSTER - JANGLE

NEVADA PROVING GROUNDS
OCTOBER - NOVEMBER 1951

10-0123

STATUS VERIFIED UNCLASSIFIED
CIC 34705
5/13/96
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Dennis W. Wright, BN

Project 10.10

BLAST MEASUREMENTS

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By J. Schmy Date 5 June 75

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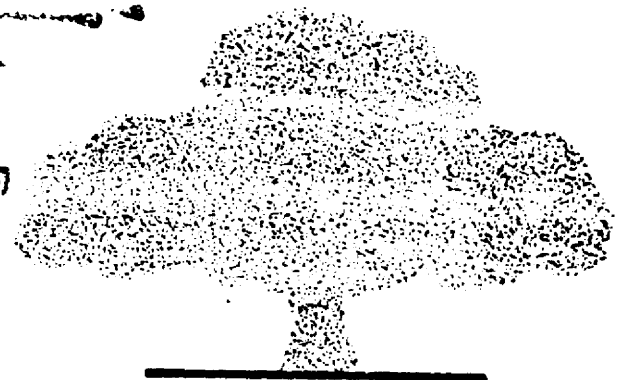
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NEVADA PROVING GROUNDS

March-June 1953

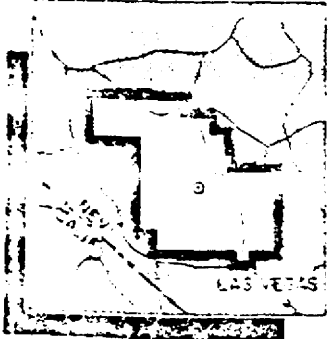
Projects 1.1a and 1.2

AIR BLAST MEASUREMENTS

DNA # 869

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Dec. 1954



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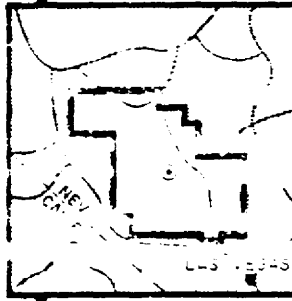
DEPARTMENT OF DEFENSE
U.S. ATOMIC ENERGY COMMISSION

Project

DANNY BOY

NEVADA TEST SITE

5 MARCH 1962



Final Report

Classification: *SECRET*
By Authority: *SEC. Roberts*
By: *12 March 1965*
15 March 1965

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

Stoland H. Carlson and Wayne A. Roberts

THE BOEING COMPANY

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SPECIAL WEAPONS PROJECT

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Operation

UPSHOT-KNOTHOLE

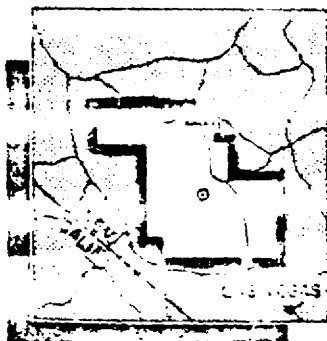
NEVADA PROVING GROUNDS

March-June 1953

Project 3.24

EFFECTS OF AN AIR BURST ATOMIC EXPLOSION ON
LANDING VEHICLES TRACKED

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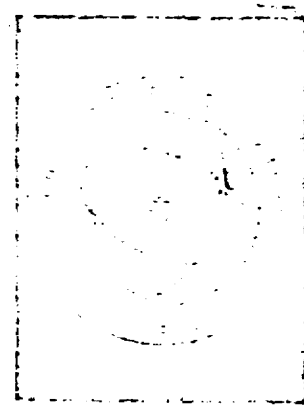
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JOINT CHIEFS OF STAFF JCS 1705/33 DATED 15 APRIL 1949
Date JUN 30 1953

OPERATION CROSSROADS
DIRECTOR OF SHIP MATERIAL
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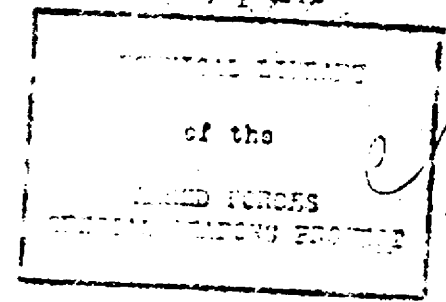
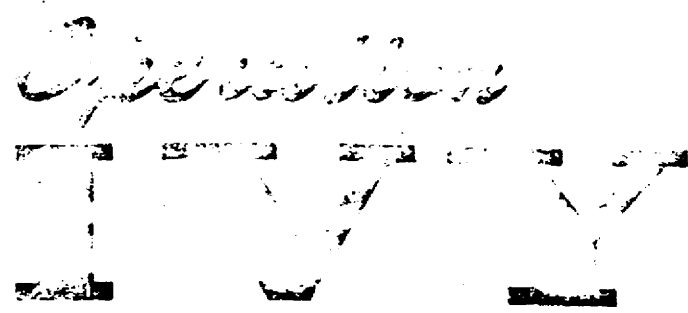
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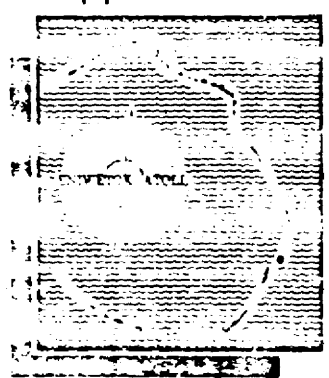
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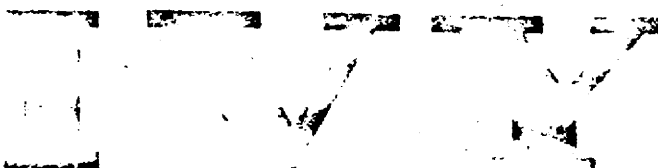
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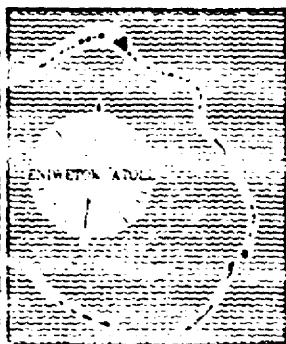


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subject: Operation

Responsibility
TEAPOT

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3) Direct the Test Manager to exercise 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 organization for Operation TEAPOT, subject to final approval by the Director, Division of Military Applications, Atomic Energy Commission, and the Chief, Armed Forces Special Weapons Project.

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(9 extracts)

R.G. Mills

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13 Dec 1954

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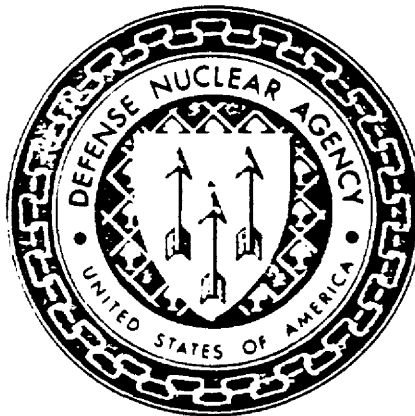
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Shots ABLE, BAKER,
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25 JANUARY-6 FEBRUARY 1951



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United States Atmospheric Nuclear Weapons Tests
Nuclear Test Personnel Review

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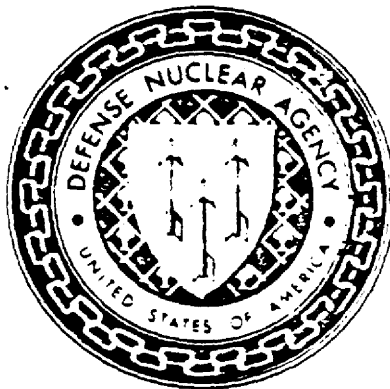
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OPERATION UPSHOT-KNOTHOLE 1953



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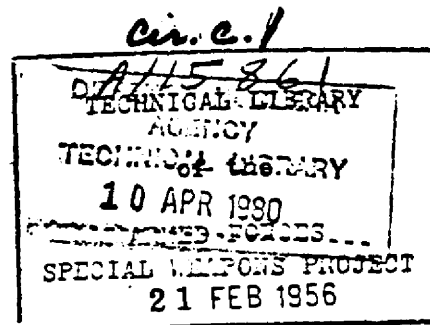
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November 1955

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

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

Department of Biophysics



Project: 6-59-08-014, Biological and Medical Aspects of Ionizing
Radiation
Subtask No. 16: World-wide Contamination (Interim Report)

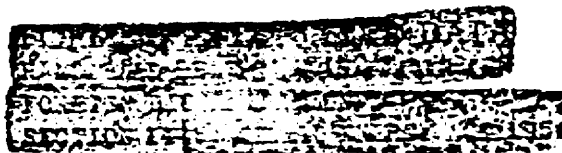
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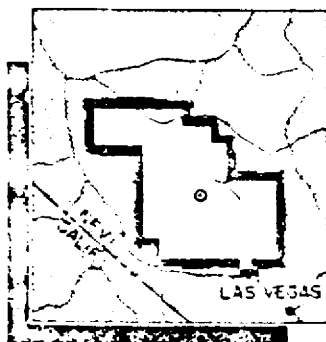
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Project 3.27

EFFECTS OF ATOMIC EXPLOSIONS ON FIELD
MEDICAL INSTALLATIONS EQUIPMENT

15136
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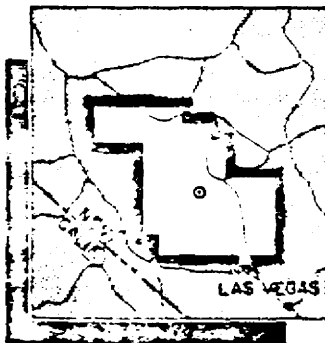
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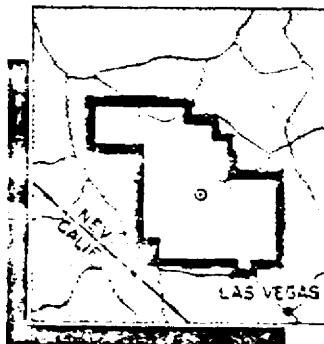
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Unit
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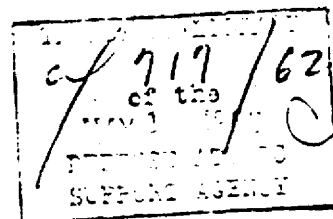
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March - June 1953

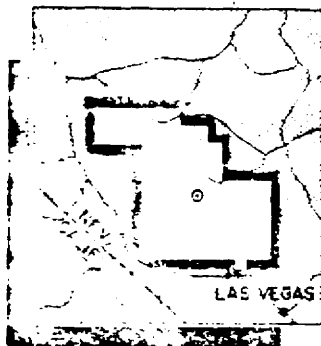
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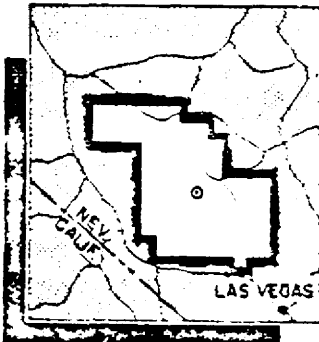
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REPORT TO THE TEST DIRECTOR

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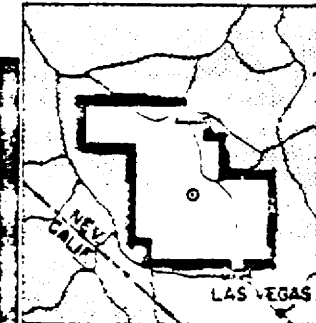
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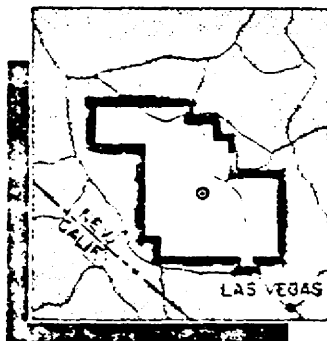
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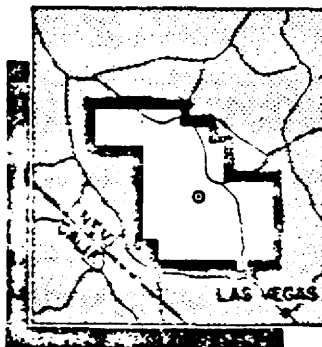
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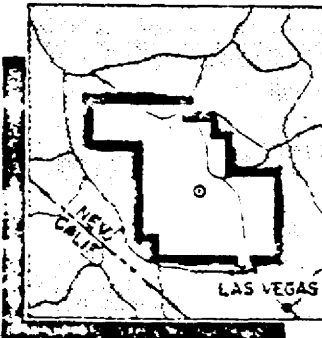
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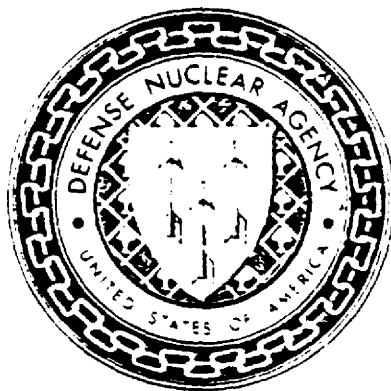
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BUSTER-JANGLE Series
22 October—5 November 1951**



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

5 62

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OPERATION DOMINIC II

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

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4. TITLE (and Subtitle) OPERATION DOMINIC II Shots LITTLE FELLER II, JOHNIE BOY, SMALL BOY, LITTLE FELLER I 7 July - 17 July 1962	5. TYPE OF REPORT & PERIOD COVERED Technical Report	
7. AUTHOR(s) Jean Ponton, Carl Maag, Stephen Rohrer, Robert Shepanek	6. PERFORMING ORG. REPORT NUMBER JRB 2-816-03-423-00	
9. PERFORMING ORGANIZATION NAME AND ADDRESS JRB Associates 8400 Westpark Drive McLean, Virginia 22102	8. CONTRACT OR GRANT NUMBER(s) DNA #001-79-C-0473	
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18. SUPPLEMENTARY NOTES This work was sponsored by the Defense Nuclear Agency under RDT&E RMSS Code B350079464 U99QAXMK50608 H2590D. For sale by National Technical Information Service, Springfield, VA 22161.		
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) 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.		

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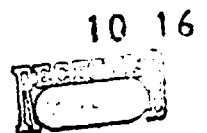
Background Materials for the CONUS Volumes



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4. TITLE (and Subtitle) Reference Manual: Background Materials for the CONUS Volumes		5. TYPE OF REPORT & PERIOD COVERED Third Draft NTPR Reference Manual
7. AUTHOR(s) Steve Rohrer		6. PERFORMING ORG. REPORT NUMBER JRB 2-816-03-423-00
9. PERFORMING ORGANIZATION NAME AND ADDRESS JRB Associates 8400 Westpark Drive McLean, Virginia 22102		8. CONTRACT OR GRANT NUMBER(s) DNA #001-79-C-0473
11. CONTROLLING OFFICE NAME AND ADDRESS Director Defense Nuclear Agency Washington, D.C. 20305		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS Subtask U990AXMK50608
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Atomic structure Radiation standards Atmospheric nuclear weapons Radiation Radiation health concepts Radiation protection		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report provides supplementary information to the series and shot volumes. The information includes a glossary; list of acronyms; explanations of radiation health concepts, radiation measurement, radiation detection, radiation protection, and radiation standards; and a list of data and document sources.		

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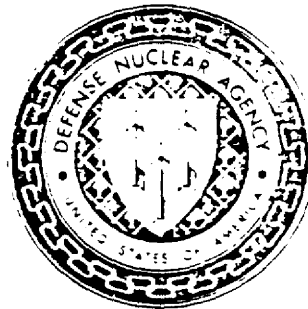
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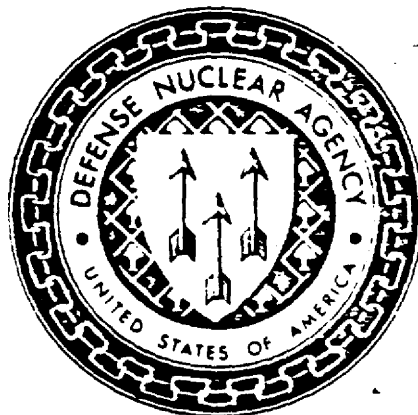
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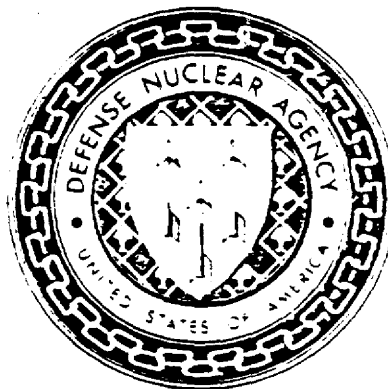
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SHOTS

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



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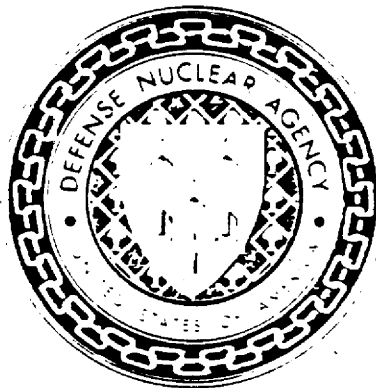
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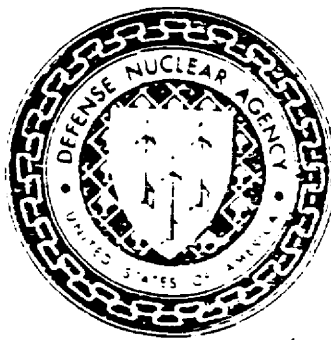
The First Five Tests of the
UPSHOT-KNOTHOLE Series
17 MARCH - 11 APRIL 1953

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

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:

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

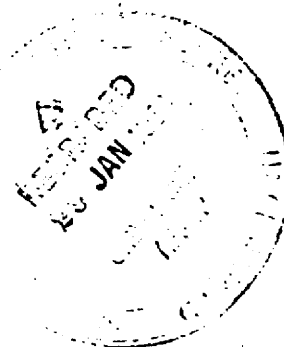
Integrating and letting, t_0 = time of explosion
 t_1 = time surge reaches an area
 t_2 = time surge leaves an area

$$\int_0^{D_{t_2}} dD = \int_{t_1}^{t_2} K/t^2 dt$$

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Operation

JANGLE

NEVADA PROVING GROUNDS
OCTOBER - NOVEMBER 1951

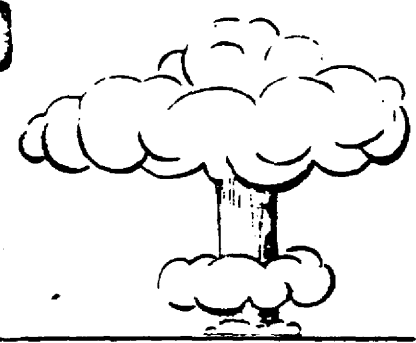
Project 6.1

EVALUATION OF MILITARY RADIAC
EQUIPMENT

H. P. H.
W. H. G. H. P.
W. H. M.

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ARMED FORCES SPECIAL WEAPONS PROJECT
WASHINGTON, D.C.

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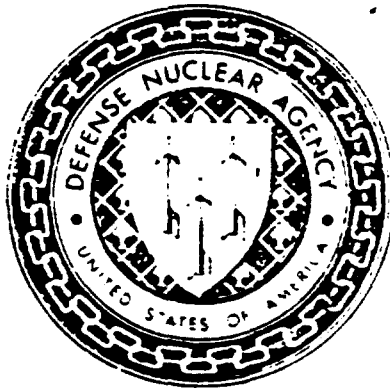
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SHOTS

ENCORE TO CLIMAX

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



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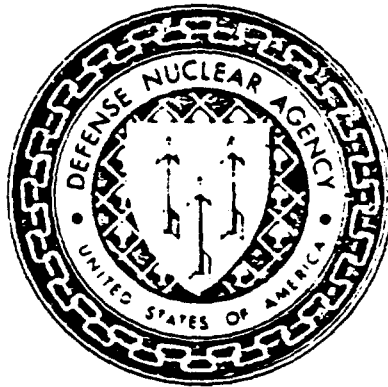
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SHOTS ABLE, BAKER, CHARLIE, AND DOG

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



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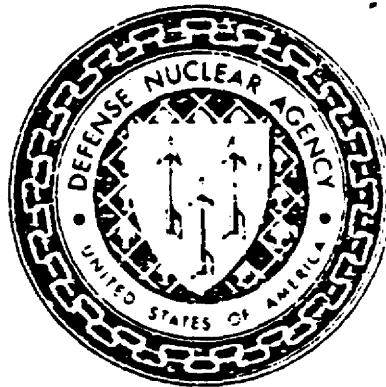
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SHOT BADGER

A Test of the UPSHOT-KNOTHOLE Series 18 APRIL 1953



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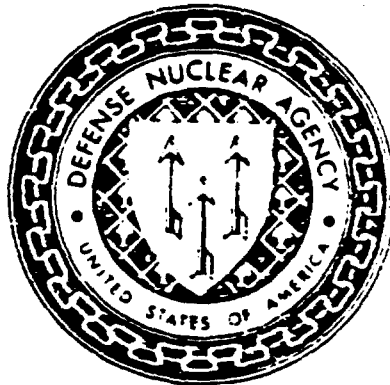
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SHOT SIMON

A Test of the UPSHOT-KNOTHOLE Series 25 APRIL 1953



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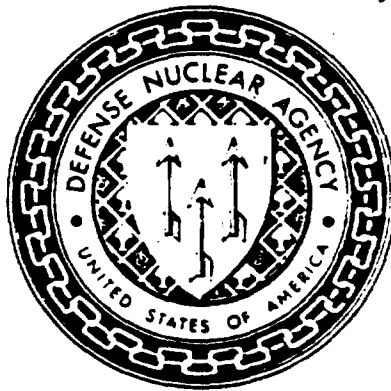
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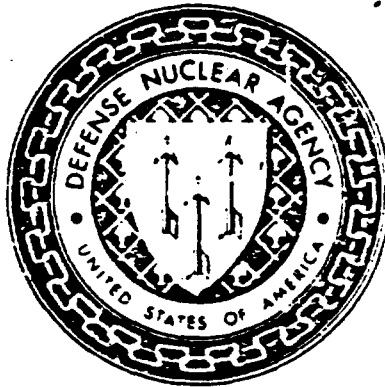
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SHOTS EASY, FOX, GEORGE, AND HOW

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



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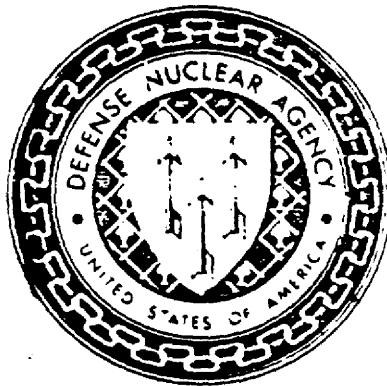
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PROJECTS GNOME AND SEDAN The PLOWSHARE Program



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

Annex 9

CONTAMINATION STUDIES

Part I

RESIDUAL CONTAMINATION IN THE CRATERS

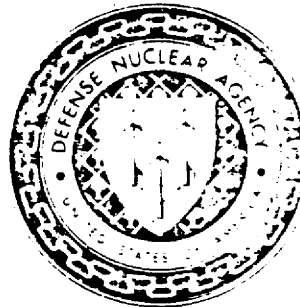
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4. TITLE (and Subtitle) PROJECTS GNOME AND SEDAN The PLOWSHARE PROGRAM	5. TYPE OF REPORT & PERIOD COVERED Technical Report	
7. AUTHOR(s) Inara Gravitis, Stephen Rohrer, Carl Maag	6. PERFORMING ORG. REPORT NUMBER JRB 2-816-03-423-00	
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19. 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 " " AIR DISSEM Summary ✓ RTD
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6. H763 REDWING RASHNE RELOOK TENA ✓ - RTD
7. H762 HARDTAK WT 16D DTL ODD OLD ✓ - RTD
8. H785 GREENHOUSE WT 4P ✓ RTD

* - WT 1525 - what are they doing about it? -
UPGRADING

9. H7390 #856 ✓ RTD

10. G3L REDWING 2nd Draft Camera Rock ✓ - RTD

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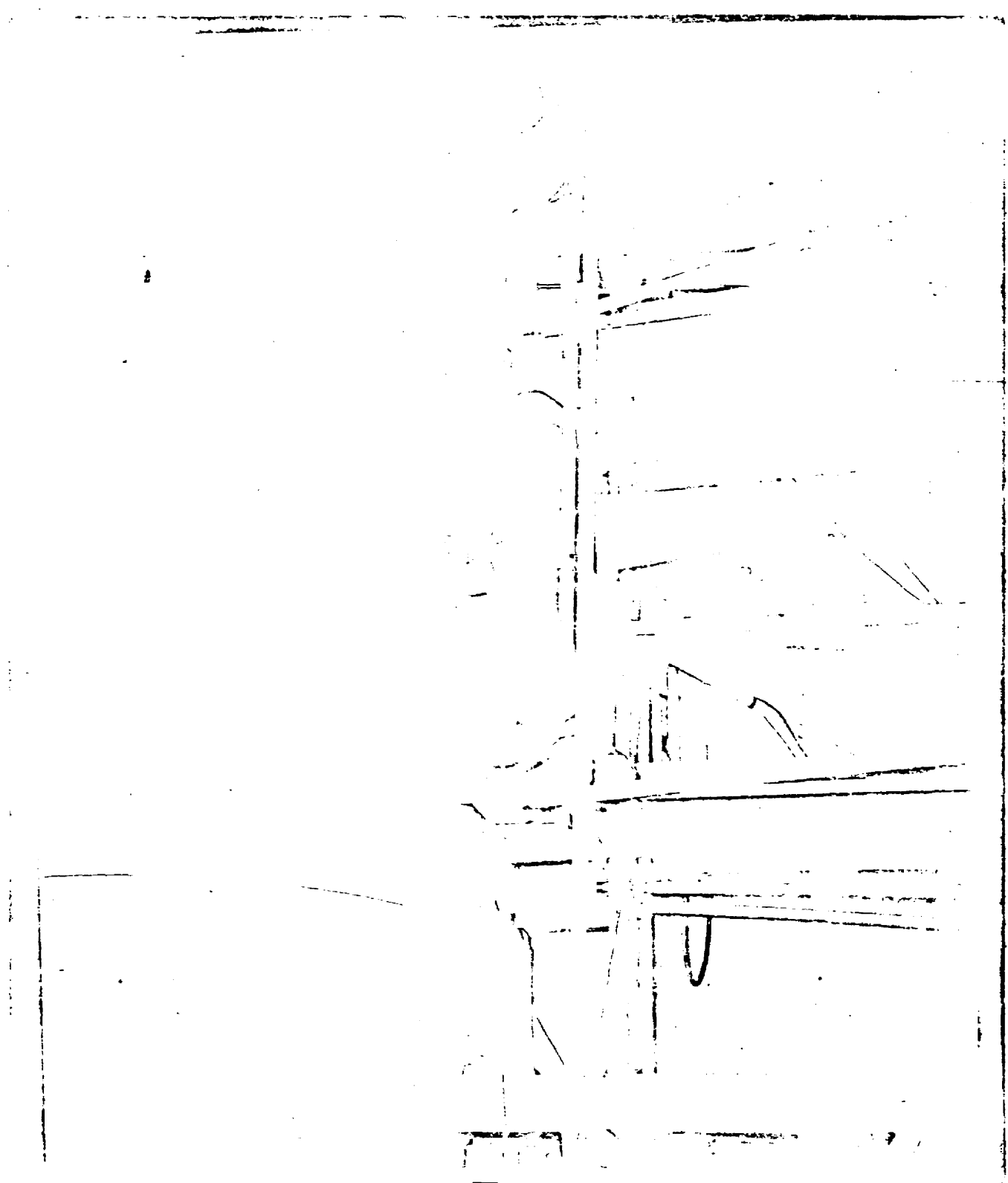
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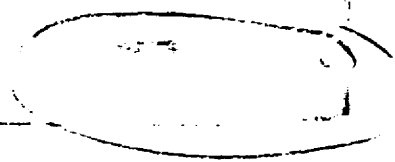
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29 Nov 82
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OPERATION DOMINIC I

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



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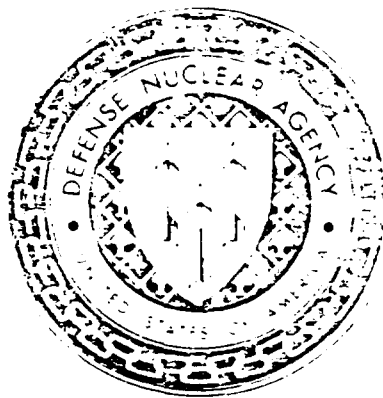
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LITTLE FELLER I
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4-16

} to discuss with Cuck
May not leave

all R.F'd 7 July 1985

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