

United States Government

Department of Energy

memorandum

DATE: November 15, 1984

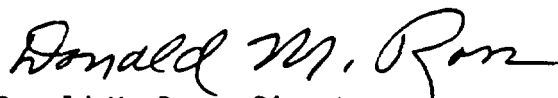
REPLY TO PE-241
ATTN OF:

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

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513

This Pkg Downgrade

905 ✓ SAE 2P-2P2 Calculator at Fynn Prod.
 909 ✓ WT 1661
 896 ✓ DMT 6038 Handbook I Series
 890 ✓ WT 744
 899 ✓ WT 1708
 898 ✓ WT 1715 Dist (SAE 2650-TR-1)
 897 ✓ IIR 1724
 ✓ REN wire Fort. Sheet
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877 ✓ JFF 7 CTG 7.3 Final Rpt
 911 ✓ HIN Completion Report
 906 ✓ WT 1662
 905 ✓ WT 1661
 904 ✓ WT 1663
 903 ✓ WT 1679
 908 ✓ WT 1677
 900 ✓ WT 1664
 910 ✓ FR 4940 TG (N)
 891 ✓ NRL 4417
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WT 381 ✓
 WT 384 ✓ *h.l.b.* } 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

#905
DMS 262
Karl
box 3/1/79

FEBRUARY 23, 1979

DRAFT

Subject: Nuclear Test Personnel Review (NTPR)

J. [unclear] 3/9/83

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

W.D.E.
MK 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 DOE
 PK 3/11/83

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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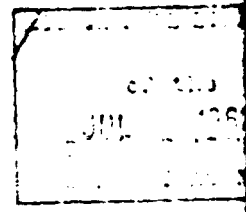
ATOMIC ENERGY DATA
SIGMA CATEGORY 1

OPERATION CASTLE

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



846 (2) 948
076-012, 948
076-010-710

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NAVAL RESEARCH LABORATORY

Washington, D.C.

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Atomic Energy Act of 1946

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JOINT TASK FORCE SEVEN COMMANDER TASK GROUP 7.3

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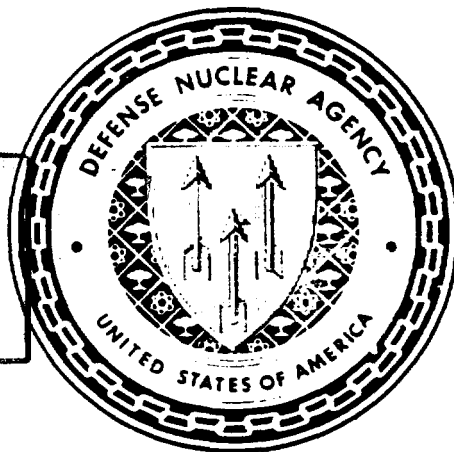
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(2) (see letter 3/14)*

2

United States Atmospheric Nuclear Weapons Tests
Nuclear Test Personnel Review

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

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HARDTACK

April - October 1958

Project 4.3

H900
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Doc 215 3/18/62

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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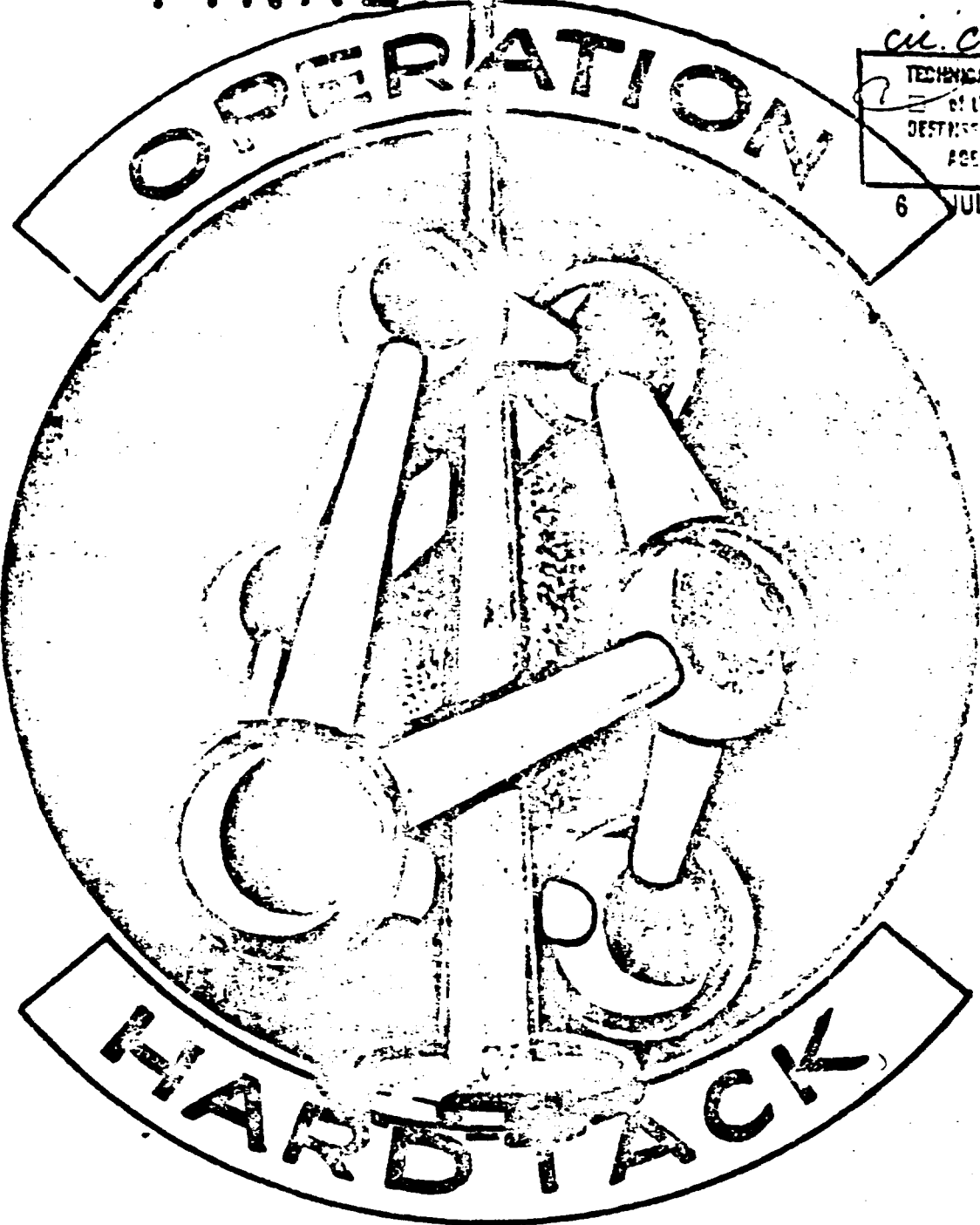
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FINAL REPORT



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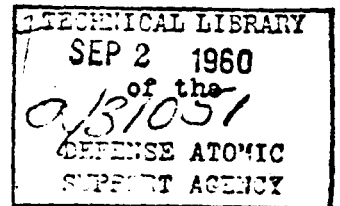
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HARDTACK

April - October 1958

Projects 2.9/2.12b

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

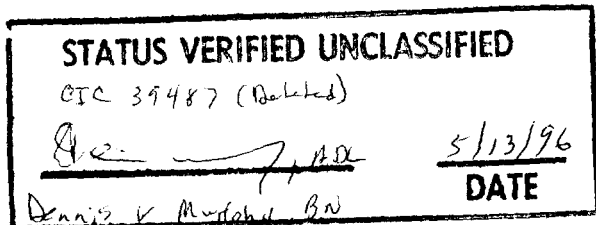


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DOE 2/2/83

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RADIOLOGICAL SAFETY AND TECHNICAL SERVICES DEPARTMENT
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March - June 1953

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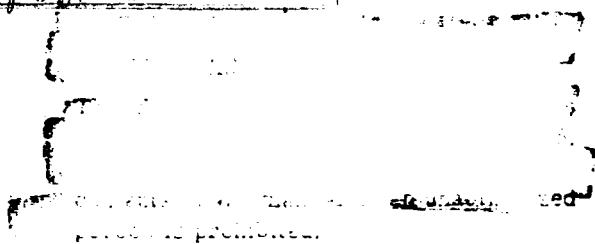
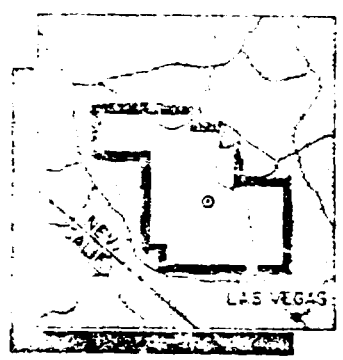
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DIRECT AIR BLAST EXPOSURE EFFECTS IN ANIMALS

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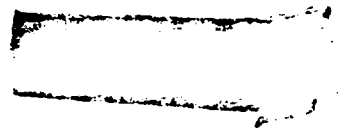
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Project 26.7

STRUCTURAL RESPONSE AND PERMANENT
DISPLACEMENT MEASUREMENTS

Issuance Date: October 28, 1960

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POSTSHOT DISTURBANCES AND SURFACE MOTIONS-- OPERATION HARDTACK-II

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By A. Savadas Date 7-21-76

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GROUND MOTION MEASUREMENTS

Issuance Date: December 22, 1959

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ELECTROMAGNETIC PULSES from
LOW-YIELD BURSTS (U)

Issuance Date: August 31, 1960

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April - October 1958

Project 2.13

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

Issuance Date: October 28, 1960

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HARDTACK

April - October 1958

Project 4.2

H904
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WOC 4/21/6

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

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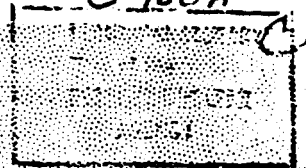
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NEUTRON FLUX from VERY-LOW-YIELD BURSTS (U)

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WV44 F12
WV6 5/13

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- ③ HPC1 DNIT -6039 F. JIRBUS Final ✓ (1)
- ④ HPC1 WT 711 ✓
- ⑤ HPC7 WT 735 ✓
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- ⑦ HPC9 WT 710 ✓
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- ⑫ ~~_____~~

807A WT 602 ✓

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2

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~~840 State Street~~
~~Santa Barbara, California 93101~~

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Director
DEFENSE NUCLEAR AGENCY
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3

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BY *B. J. A*

UPSHOT-WINDHOLE

NEVADA PROVING GROUNDS

March - June 1953

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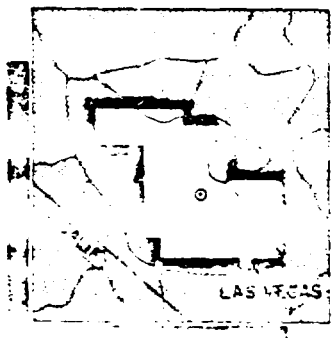
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HEADQUARTERS FIELD COMMAND, ARMED FORCES SPECIAL WEAPONS PROJECT
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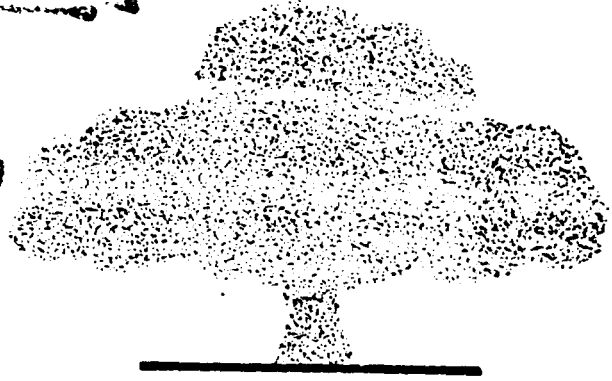
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UPSHOT-KNOTHOLE

NEVADA PROVING GROUNDS

March - June 1953

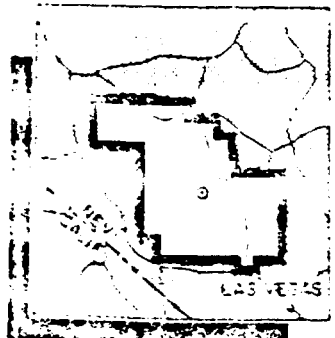
Projects 1.1a and 1.2

AIR BLAST MEASUREMENTS

DNA # 869

218310

Dec 1954



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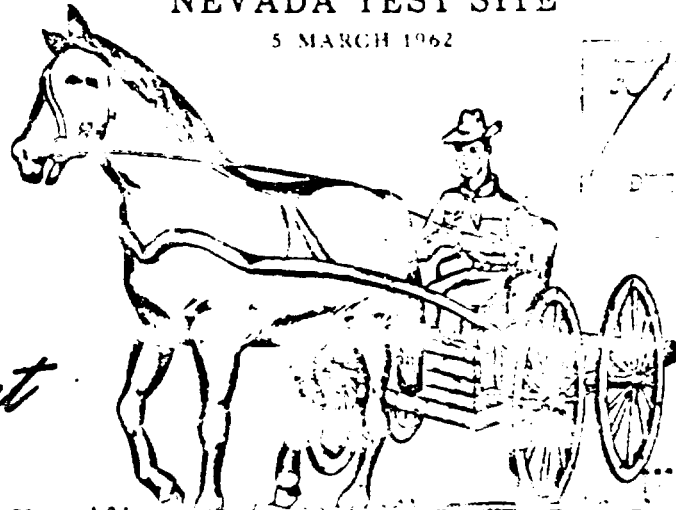
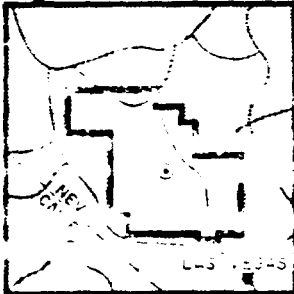
DEPARTMENT OF DEFENSE
U.S. ATOMIC ENERGY COMMISSION

Project

DANNY BOY

NEVADA TEST SITE

5 MARCH 1962



Final Report

Classification: *SECRET*
By Authority: *SEC Rpt. to RHL 12 March 1965*
By: *[Signature]* 15-111216-1965

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

Roland H. Carlson and Wayne A. Roberts

THE BOEING COMPANY

ISSUED 25 JULY 1962

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SPECIAL WEAPONS PROJECT

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Operation
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NEVADA PROVING GROUNDS

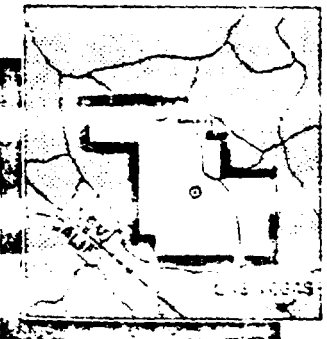
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Project 3.24

EFFECTS OF AN AIR BURST ATOMIC EXPLOSION ON
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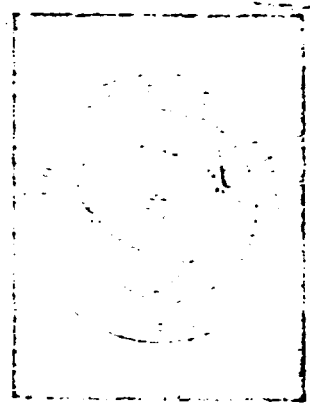
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DIRECTOR OF SHIP MATERIAL
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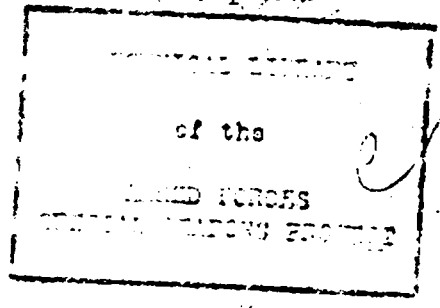
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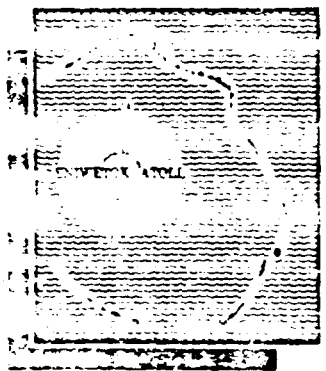
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SECTION 144b, ATOMIC ENERGY ACT 1954

Operation

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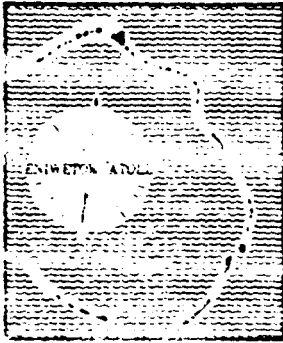
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Wopar, Assistant to the Secretary of Defense for Atomic Energy

Responsibility
TEAPOT

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by the Department of Defense.

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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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AFSWP

C-107
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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 *AF 2 209 286 P 57*

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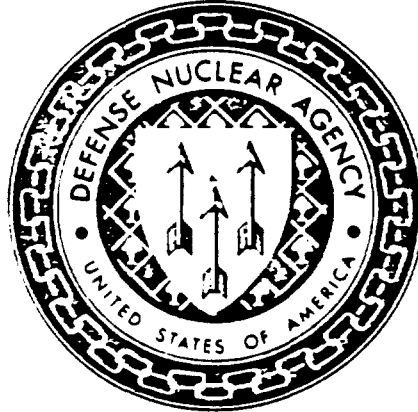
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OPERATION RANGER

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

25 JANUARY-6 FEBRUARY 1951



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United States Atmospheric Nuclear Weapons Tests
Nuclear Test Personnel Review

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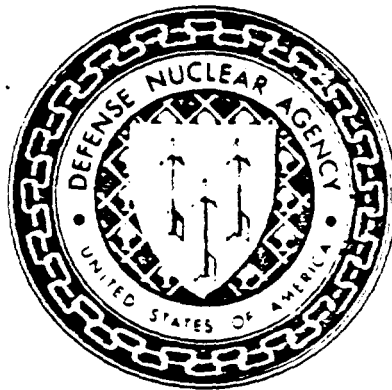
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November 1955

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

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Project: 6-59-08-014, Biological and Medical Aspects of Ionizing
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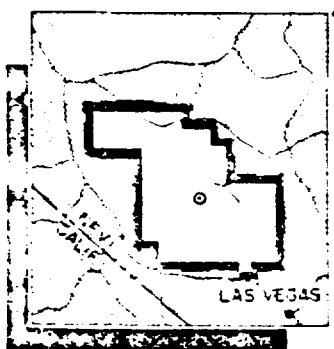
Project 3.27

EFFECTS OF ATOMIC EXPLOSIONS ON FIELD
MEDICAL INSTALLATIONS EQUIPMENT

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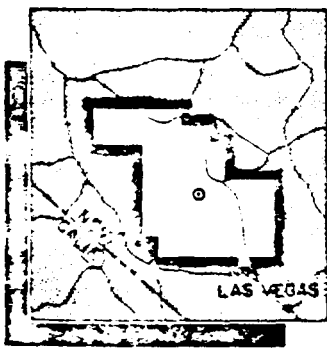
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THE BIOLOGICAL EFFECTS OF NEUTRONS

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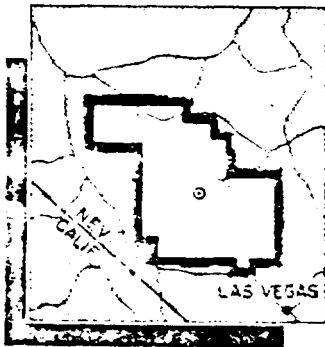
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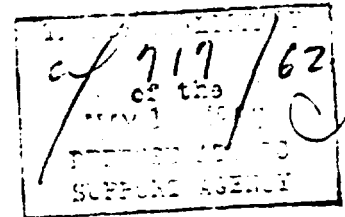
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March - June 1953

Project 18.3

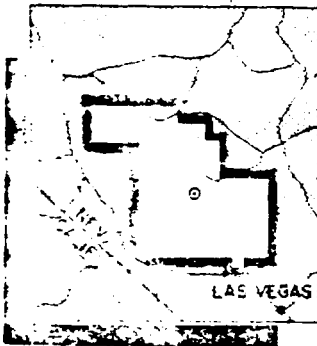
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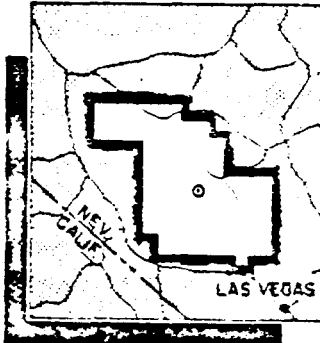
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MEASUREMENTS AND ANALYSIS OF
ELECTROMAGNETIC RADIATION FROM
NUCLEAR DETONATIONS

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REPORT TO THE TEST DIRECTOR

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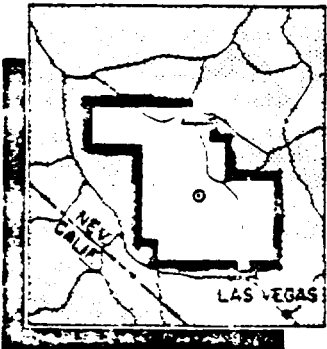
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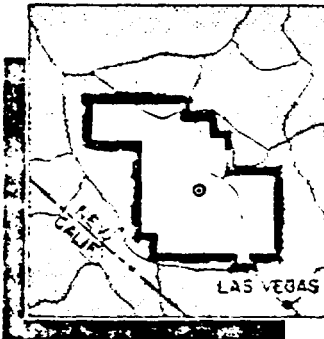
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AND INTERIOR KINDLING FUELS

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WCE 4121

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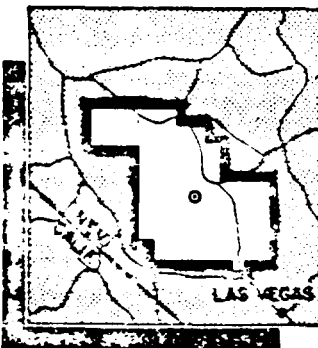
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By W. J. ... Date 17 Jan 62 #P31

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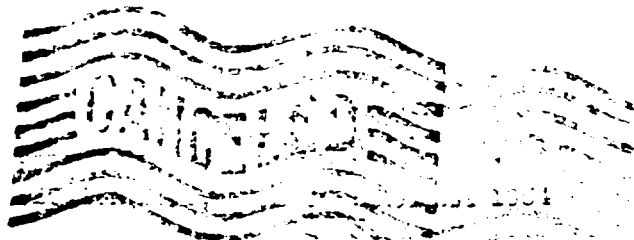
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March - June 1953

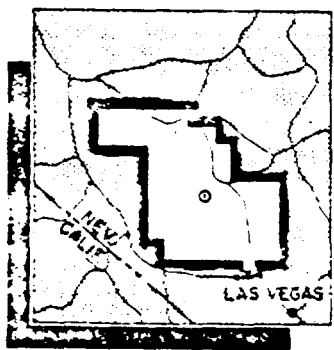
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MEASUREMENT OF THERMAL RADIATION
WITH A VACUUM MICROPHONE

14865
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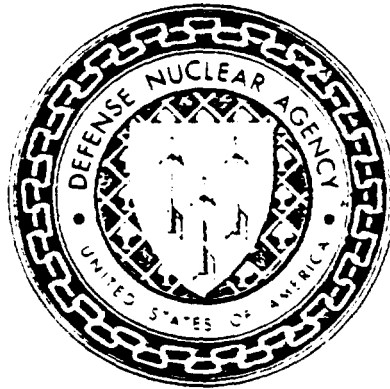
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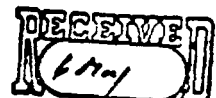
**The First Five Tests of the
BUSTER-JANGLE Series
22 October—5 November 1951**



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

5 62



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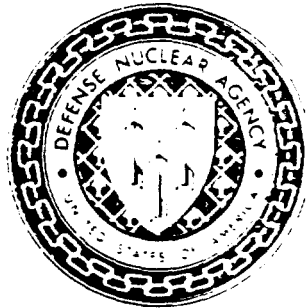
364

OPERATION DOMINIC III

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

File A

100-2000-1000



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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	
	6. PERFORMING ORG. REPORT NUMBER JRB 2-816-03-423-00	
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	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	15. SECURITY CLASS. (of this report) UNCLASSIFIED	
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report)		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
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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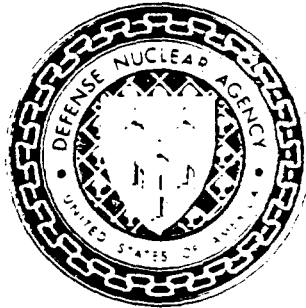
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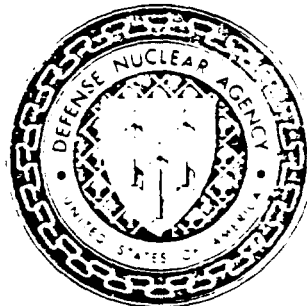
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PROJECT TRINITY 1945-1946



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4. TITLE (and Subtitle) PROJECT TRINITY 1945-1946		5. TYPE OF REPORT & PERIOD COVERED Technical Report
		6. PERFORMING ORG. REPORT NUMBER JRB 2-816-03-423-00
7. AUTHOR(s) Carl Maag, Steve Rohrer		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
11. CONTROLLING OFFICE NAME AND ADDRESS Director Defense Nuclear Agency Washington, D.C. 20305		12. REPORT DATE
		13. NUMBER OF PAGES
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report) UNCLASSIFIED
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
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) 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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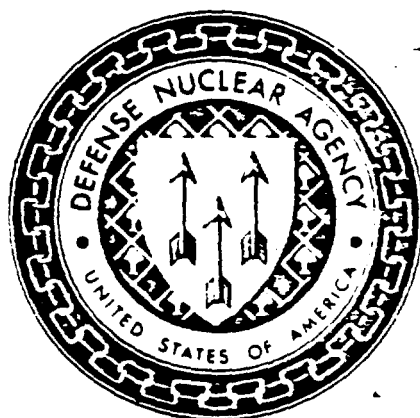
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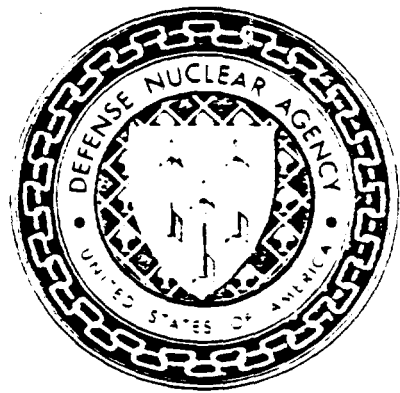
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SHOTS

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



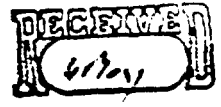
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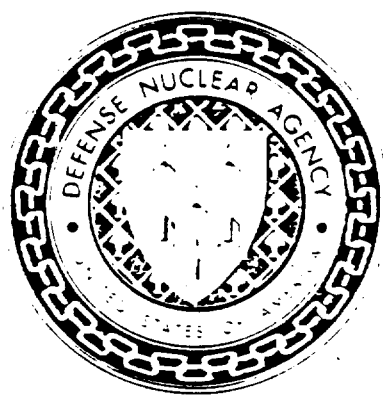
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Dr. D. H. Roy

WOC # 5121/22

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DECEMBER
1951

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

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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

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



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Operation

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JANGLE

NEVADA PROVING GROUNDS
OCTOBER-NOVEMBER 1951

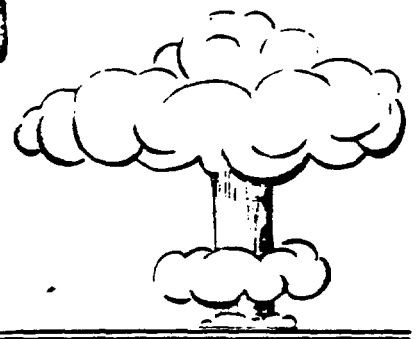
Project 6.1

EVALUATION OF MILITARY RADIAC
EQUIPMENT

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By Authority of DASH SC-3 memo 12/21/68
By J. Schmig Date 5/12/75



ARMED FORCES SPECIAL WEAPONS PROJECT
WASHINGTON, D.C.

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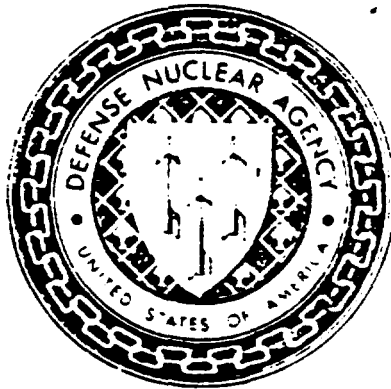
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SHOTS

ENCORE TO CLIMAX

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



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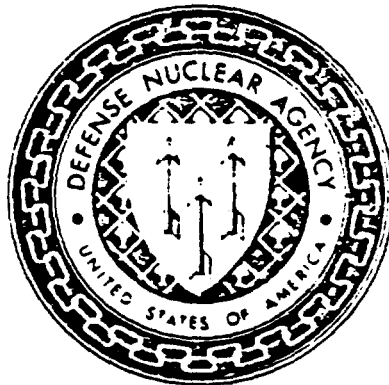
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SHOTS ABLE, BAKER, CHARLIE, AND DOG

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



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Nuclear Test Personnel Review

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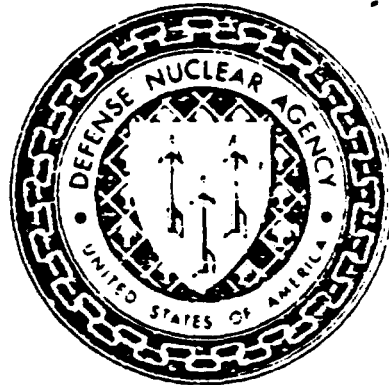
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DNA 6015

SHOT BADGER

A Test of the UPSHOT-KNOTHOLE Series 18 APRIL 1953



DNA - 23154

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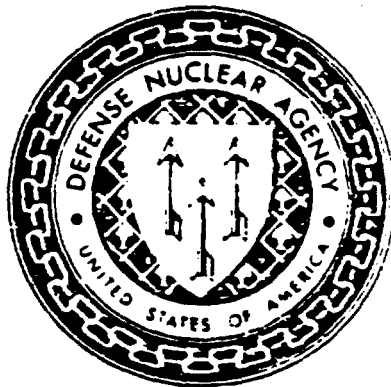
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19 1953

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DNA 6016

SHOT SIMON

A Test of the UPSHOT-KNOTHOLE Series 25 APRIL 1953



DNA 2370 82
DOC with 2/24/52

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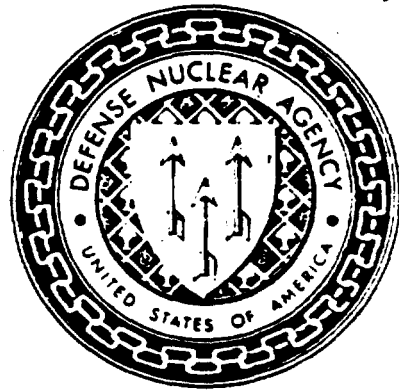
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OPERATION TUMBLER-SNAPPER 1952

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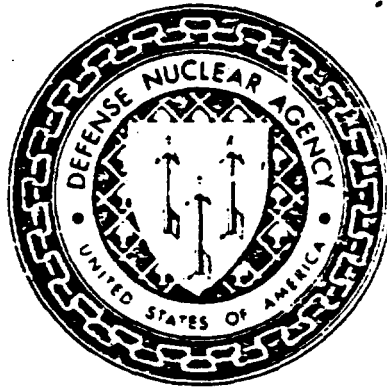
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SHOTS EASY, FOX, GEORGE, AND HOW

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



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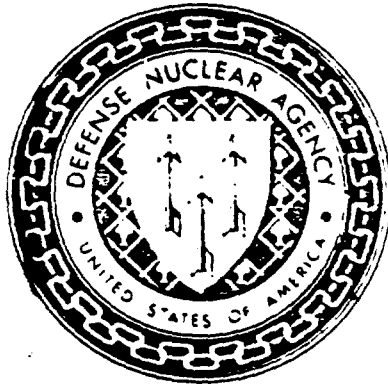
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PROJECTS GNOME AND SEDAN The PLOWSHARE Program



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OPERATION SANDSTONE NUCLEAR EXPLOSIONS

1948



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

Annex 9

CONTAMINATION STUDIES

Part I

RESIDUAL CONTAMINATION IN THE CRATERS

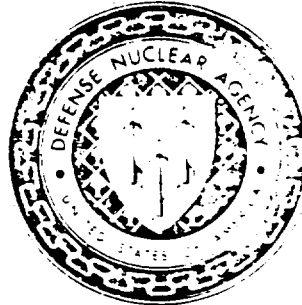
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PROJECTS GNOME AND SEDAN The PLOWSHARE Program



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	6. PERFORMING ORG. REPORT NUMBER JRB 2-816-03-423-00	
7. AUTHOR(s) Inara Gravitis, Stephen Rohrer, Carl Maag	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 U99QAXMK50608		11. CONTROLLING OFFICE NAME AND ADDRESS Director Defense Nuclear Agency Washington, D.C. 20305
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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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✓ H 854	Final	Buster/Jung/L	Able - Easy	DNA 6024	①
✓ H 859	"	"	"	Sugar + Uncle	" 6025 ①
✓ H 857	"	"	"	Saves	" 6023 ①
H 860	2d Draft	Hard Fork 2	Series		①
	ARGUS Fact Sheet				①
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- ① USNSTA Nov H 824 son Fran 22 Aug 1974 Opn Cattle Rit'g
- ② M/R Hqs TFE7 8 Oct 1977 sent Paris... Rit'g
- ③ LTR GCS BAIKORO FPO SANFRAN 27 Nov 1974 Rit'g

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19	" ABLE DOG	6017	3-108		call
20	" Easy-How	6021	3-109		call
21	U/K	(113) 6032	3-31		

Total 15 left all received back
21 Nov 82

1K.

DIRECTOR
DEFENSE NUCLEAR AGENCY
WASHINGTON, D. C. 20305

TO DOE

RF-6

From: VADM Monroe

To: 775 WT 311 018809 Rec'd

(1) ✓ (1) 773 WT 336 018824 Rec'd
 (1) ✓ (1) 778 " 316 018835 Rec'd
 (1) ✓ (1) 776 " 312 018808 Rec'd

✓ (1) 808 XRBS 176 020865 Rec'd

✓ (1) 806 XRBS 175 020875 Rec'd

✓ (1) 807 XRBS 186 020899 Rec'd

✓ (1) 808 XRBS 187 020878 Rec'd

(1) Fact Sheet CASTLE Rec'd

(1) " " READING Rec'd

~~(1) 812 ~~FRONT VOLUME~~ RTG~~

(1) 811 RANGER (A, B, E, D, F) Rec'd

✓ (1) 810 CASTLE Volume Rec'd

✓ (1) 123 ~~HT~~ Rot Test Manag. Atug 020144 Rec'd
HT OTO 38-4
Phase II Harstad

✓ (1) JTF-7 OP DRUCK 1-53 81-06986 Rec'd

✓ (1) TA 5184 A/C Decant 81-06987 Rec'd

✓ (1) Rod surveys Marshal Is 81-06985 Rec'd

✓ (1) Pers Over Expend Post Bravo 81-06984 Rec'd

WT 1725 HARDTACK 020120 Rec'd

391, 392

Man

5000931

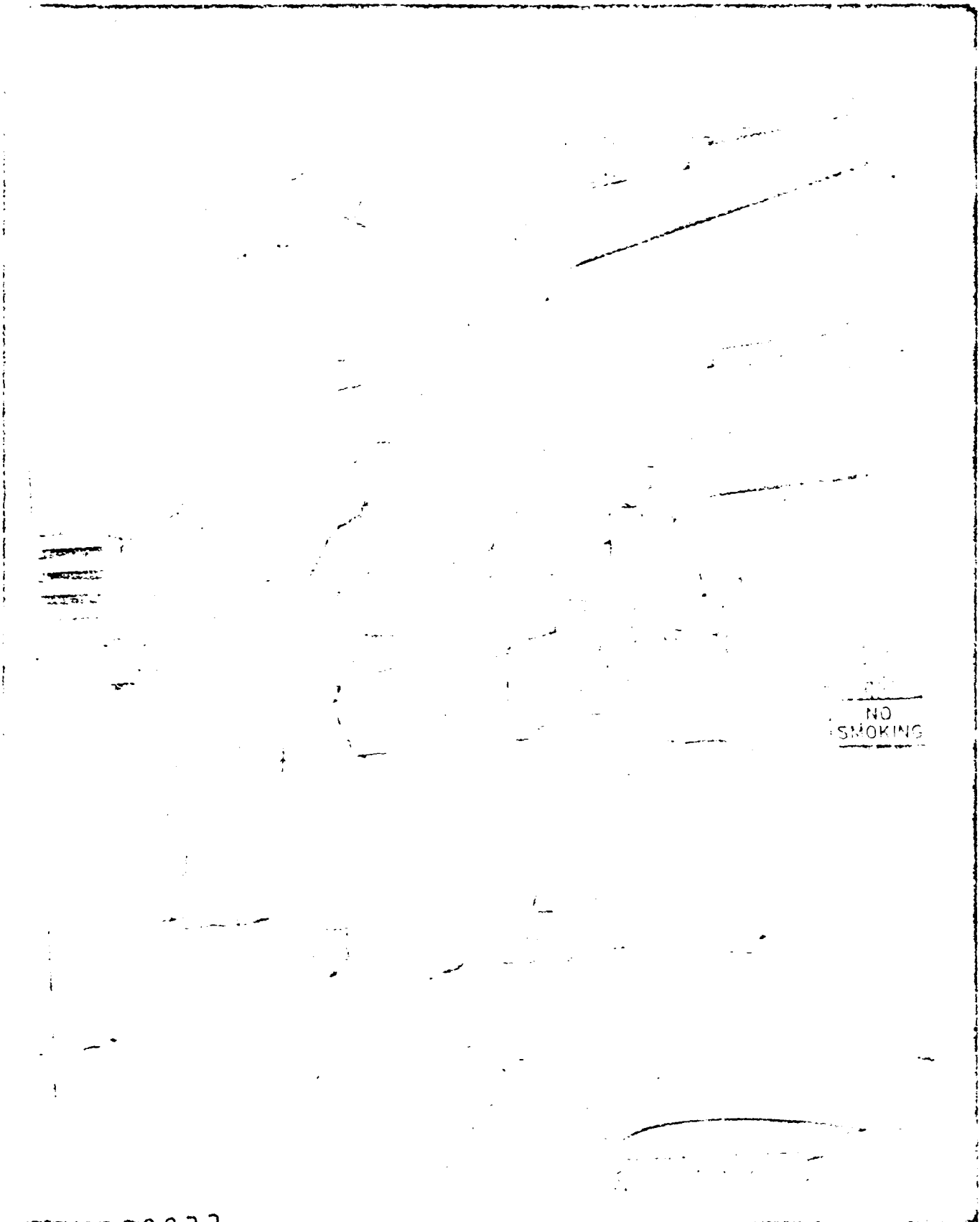
FC DOE 30 SID

- 1. OPN DOMINIC T 1st Draft ✓ RTD
- 2. H757 PRISCILLA (RECO) Annex G to CTOWN-LL ✓ RTD
- 3. H759 " " 6L outside RMOUSE ✓ RTD
- 4. H774 " #2 AIR DISSEM Summary ✓ RTD
- 5. H772 GREENHOUSE 1st Draft ✓ RTD
- 6. H763 REDWING RMOUSE RELOOK TENA ✓ - RTD
- 7. H766 HARDYAK WT 16D DTL OLD OLD ✓ - RTD
- 8. H785 GREENHOUSE WT 4P ✓ RTD

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

- 9. WT 390 #856 ✓ RB
- 10. 636 REDWING 2 ~~draft~~ camera ready ✓ - RTD

1/13/88
[Signature]



NO
SMOKING

5000933

1997

12/15/82

<input type="checkbox"/> TRANSMITTAL OF DOCUMENT (Receipt not required).	Receipt Number:
<input checked="" type="checkbox"/> CLASSIFIED DOCUMENT TRANSMITTAL AND RECEIPT. (Original to be signed by recipient and returned to sender. Duplicate to be retained by recipient. Triplicate retained by sender for suspense files.)	Date Mailed or Couriered: 25 October 1982
	Office Symbol: LEVI

TO: DEFENSE NUCLEAR AGENCY ATTN: ISCM WASH DC 20305	FROM: DEFENSE NUCLEAR AGENCY ATTN: LEVI WASH DC 20305
---	---

Reference or short title	Date	Classification	Copy number and series
1. EGG 93114 Star Fish, 35mm x 4ft	- - -	SRD	31877
2. EGG 93214 Star Fish, 35mm x 10 ft	- - -	SRD	31834
3. EGG 93218 Star Fish, 35mm x 59 ft	- - -	SRD	31395
4. EGG 93119 Star Fish, 35mm x 149 ft	- - -	SRD	B3086
5. EGG 93117 Star Fish, 35mm x 124 ft	- - -	SRD	B3091
//////////////////// LAST ITEM //////////////////////////////////////			

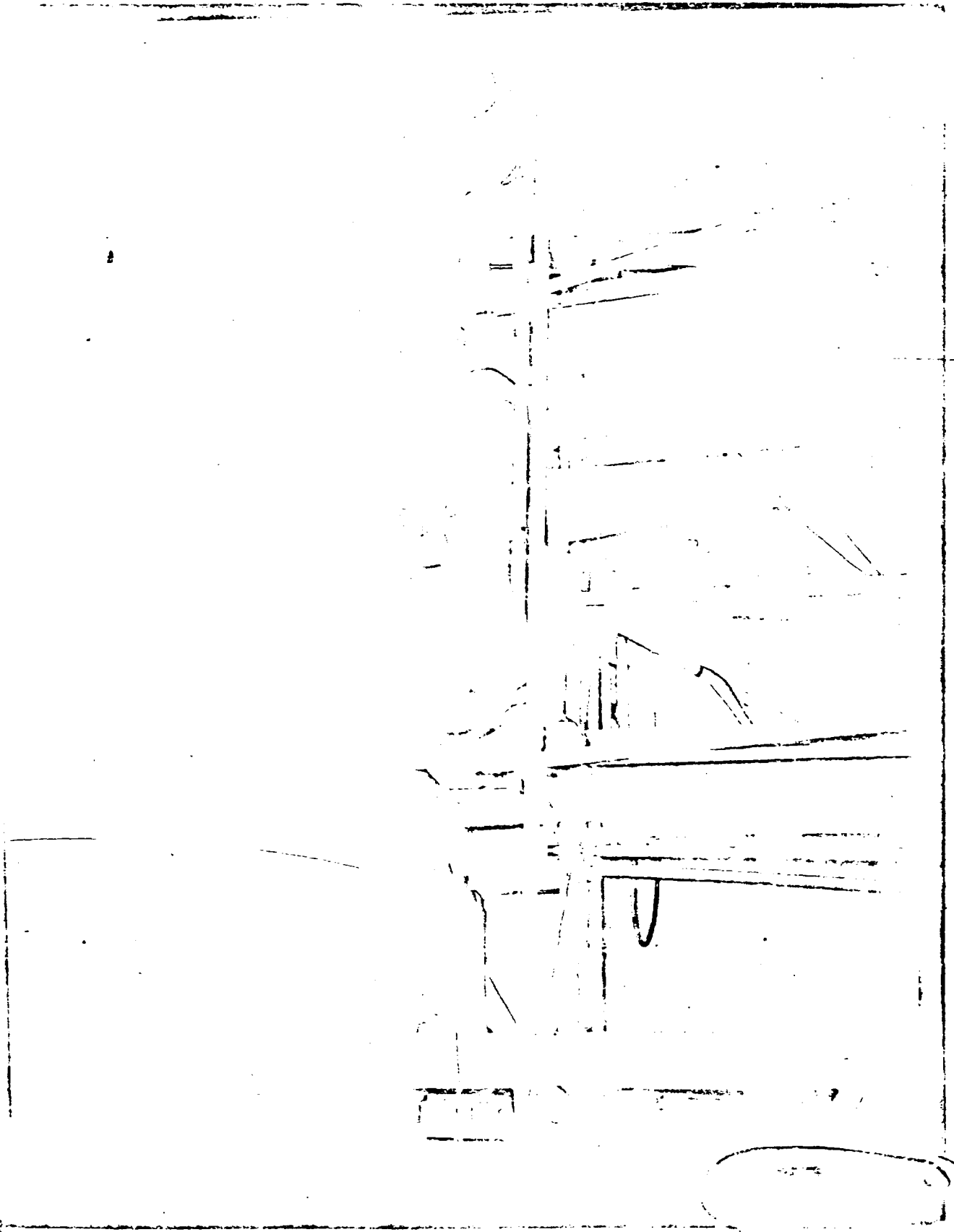
UNCLASSIFIED

Reason for transmittal: FOR TEMPORARY LOAN. CLASSIFICATION REVIEW.	FOR THE DIRECTOR: <i>Harry R. Moser</i> HARRY R. MOSER Chief, Visual Services Branch
--	---

CERTIFICATE: I have personally received from Director, Defense Nuclear Agency (LEVI)
Washington, D.C. 20305 the classified documents identified above. I assume full responsibility for the safe handling, storage, and transmittal of these documents in accordance with existing regulations.

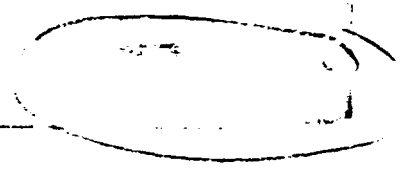
Signature of recipient:	Date received:
-------------------------	----------------

(Type or print) name, grade, and title: 5000934	Postal Registry No. or name of courier:
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5000935

DNA 6039 Fig 19



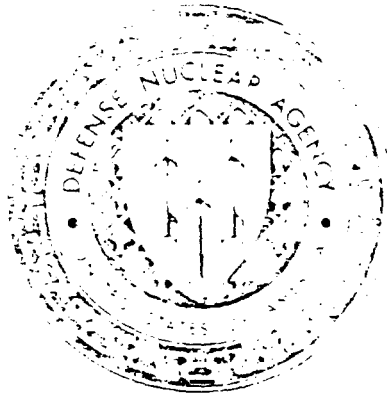
401

THIRD DRAFT

6/1/53

PROJECT TRINITY

19-15-1943



12/1/53
ET 10/1/53
10/1/53
10/1/53

United States Atmospheric Nuclear Weapons Tests
Nuclear Test Personnel Review

5000936

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

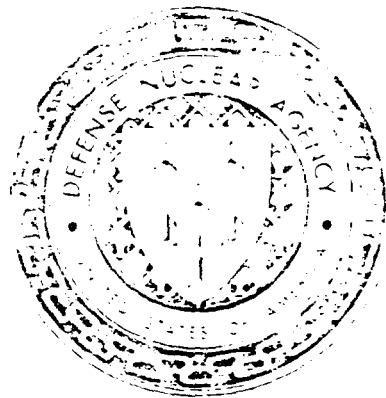
402-

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

5000937

20 16

403

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PROJECTS
ENGINE AND DESIGN
The PLOWSHARE Program

#104



29 Nov 52
TO: JSCM/ab
Admiral
for your review
Tech Review copy
will follow soon
Jim -
H. [Signature]

United States Atmospheric Nuclear Weapons Tests
Nuclear Test Personnel Review

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

5000939

NOF

OPERATION DOMINIC III

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



#802A
[Handwritten signature]

United States Atmospheric Nuclear Weapons Tests
Nuclear Test Personnel Review

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

5000940

492

ISCOM

OPERATION DOMINIC I

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

4364

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United States Atmospheric Nuclear Weapons Tests
Nuclear Test Personnel Review

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for the Department of Defense

5000941

407

3017
14

- 905 SAE 78-282 Calculator at Fission Prod.
- 909 WT 1661*
- 896 DNA 6038 Hardback I Series
- 890 WT 1744
- 899 WT 1708
- 899 WT 1715 Draft (SAE 2657-TR-1)
- 897 FIR 1704
- RED wing Fork Sheet
- NPR Fork Sheet
- ~~871 ~~_____ Draft~~~~
- 871 Dominant I 1st draft 2d draft letter ed
- 889 OTO 58-5 Open Hardback II

- 872 JTF7 CTG 7.3 Final Rpt
- 911 HIN Completion Report
- 906 WT 1662
- 905 WT 1681
- 904 WT 1663
- 903 WT 1679
- 908 WT 1677
- 900 WT 1664
- 910 FR 4910 TG (N)
- 881 NRL 4417
- 826167 CIA RED WING FIR

WT 381
WT 394 with } to discuss with Cuck
May not leave

all R.t'd 7 July 1985

R. G. Vels
(6) ISC