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0-3-006 79

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CLASSIFICATION CANCELLED with deletion  
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BY AUTHORITY OF EJ Self  
BY AMence DATE 12/21/08

# MARSHALL ISLAND'S BIBLIOGRAPHY for

## Neil Barss DOE Headquarters June 1994 (U)

|                           |              |
|---------------------------|--------------|
| 1ST REVIEW                | [REDACTED]   |
| AUTHORITY                 | [REDACTED]   |
| NAME                      | <u>Barss</u> |
| 2ND REVIEW                | [REDACTED]   |
| AUTHORITY                 | [REDACTED]   |
| NAME                      | [REDACTED]   |
| ADDITIONAL INFO BRACKETED | [REDACTED]   |
| SPECIFY:                  | [REDACTED]   |

*Jim Henry 12/2/99*

### Abstract

This bibliography consists of cards from Los Alamos National Laboratory's Classified Report Library subject catalog. The cards cover reports in the LANL Report Library concerning nuclear testing in the Marshall Islands. Note: cards that duplicate information already received from Office of Scientific and Technical Information (OSTI) have not been reproduced. (U)

RECEIVED  
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Derivative Classifier  
Mike Pankratz  
FSS-16 Classification Analyst

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Deleted  
JUN 16 1994

~~SECRET~~

AFOAT-TS-60-043(Vol. II) (Rpt: ~~Top~~ Secret/RD)  
United States. Air Force. USAF Historical  
Division.  
FOUNDATIONS OF AN ATOMIC AIR FORCE AND  
OPERATION SANDSTONE, 1946-1948 (U). THE  
HISTORY OF AIR FORCE PARTICIPATION IN THE  
ATOMIC ENERGY PROGRAM, 1943-1953. VOLUME II.  
PART I. EXCERPTS. R.D. Little. n.c. 111p.  
(AO-LXXXVII-266-1A)

- CD: Unclass.
- I. Auth.
- II. Corp. Auth.
- III. OA-LXXXVII-266-1A
  - 1. Atomic weapons--  
History
  - 2. United States.  
Air Force--  
History
  - 3. CROSSROADS
  - 4. SANDSTONE
  - 5. Guided missiles

7-6-83  
Not for WN

c.1 IS-4(A)

N9

FILM-OA-23 (Film: ~~CONFIDENTIAL~~)

Lookout Mountain Laboratory, Hollywood,  
Calif.  
X.Y.Z. OPERATION SANDSTONE;  
X.Y.Z. RUSHES. (MOTION PICTURE).  
1948. Produced for Joint Task Force  
Seven and the Atomic Energy Commission.  
10 min., sd., color, 16 mm.

- 1. Sandstone
- 2. X-Ray
- 3. Yoke Burst
- 4. Zebra Burst
- I. Corp. Author

N6

2/62

FILM-OA-55 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood,  
California.  
OPERATION SANDSTONE: SIXTH,  
SEVENTH, AND EIGHTH ATOMIC  
BOMB TESTS, ENIWETOK ATOLL,  
MARSHALL ISLANDS. (MOTION  
PICTURE). 1948. Popular Level.  
Produced for Atomic Energy Commission.  
17 min., sd., color, 16 mm.

- 1. Sandstone
- I. Corp. Author

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N3

2/62

JUN 16 1994

Los Alamos Scientific Laboratory  
GAMMA -RAY INTENSITIES AT THE  
SANDSTONE TESTS IN THE REGION O -  
1000 MICROSECONDS. L. D. P. King and  
Francis L. Bentzen. Sept. 1, 1949 170p.

- I. Sandstone
- I. Authors (2)
- II. Corp. Author

N5

LA-662 (Report: ~~SECRET~~)

Los Alamos Scientific Lab. N. Mex.  
SANDSTONE HANDBOOK OF NUCLEAR EXPLOSIONS. I.  
F. Reines, ed. February 21, 1948  
214p.

(This report is actually a draft  
of LA-662R except that 662R is some-  
what more complete and better edited)

- I. Sandstone
- I. Mayer, Harris L
- II. Mullaney,  
Joseph F
- III. Reines,  
Frederick
- IV. Spence,  
Roderick W
- V. Zadina, Edward J
- VI. Los Alamos  
Scientific Lab.  
N. Mex.
- VII. Contract W-7405-  
ENG-36

LA-11403 (Rpt:Secret/RD)  
Los Alamos National Laboratory.  
EVOLUTION OF U.S. NUCLEAR WEAPONS DESIGN:  
TRINITY TO KING (U). Lawrence S. Germain.  
Jan. 1991. 28 p.

Cd:Unclassified

- I. Corp. Auth.
- II. Auth. (1)
  - 1. Atomic weapo  
Design--His
  - 2. Trinity bur
  - 3. Sandstone
  - 4. Stockpile
  - 5. Ranger
  - 6. Greenhouse
  - 7. Buster-Jang
  - 8. Tumbler-Sti
  - 9. Ivy

5-28-91

c.33A thru 119A

WS

N13

~~CONFIDENTIAL~~

LAMD-1186

card

~~Secret~~

- |                    |                                 |            |
|--------------------|---------------------------------|------------|
| 5. Greenhouse      | 16. Easy Burst                  | 27. Buster |
| 6. Buster          | 17. Buster Burst A              | Burst B    |
| 7. Tumbler-Snapper | 18. Dog Burst                   | 28. Buster |
| 8. Upshot-Knothole | 19. George Burst                | Burst C    |
| 9. Ivy             | 20. Item Burst                  | 29. Buster |
| 10. Castle         | 21. Charlie Burst               | Burst D    |
| 11. X-Ray Burst    | 22. Ranger Burst A              | 30. Buster |
| 12. Yoke Burst     | 23. Ranger Burst B              | Burst E    |
| 13. Zebra Burst    | 24. Ranger Burst B <sub>2</sub> | (Cont'd on |
| 14. Able Burst     | 25. Ranger Burst E              | card 3)    |
| 15. Baker Burst    | 26. Ranger Burst F              |            |

LAMD-1186

card 3

~~Secret~~

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card 8

~~Secret~~

DOE

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USAF-LA-2

WD Effects & Instruments

Secret

United States Air Force  
Report of Operation Fitzwilliam.  
Volume I.  
n. d. 432 pp

USAF-LA-2  
United States Air  
Force  
Operation Fitzwilliam  
1. Fitzwilliam  
2. Atomic Explosions--Detectic  
3. Long Range  
Detection  
4. Sandstone  
5. Firstrate  
6. Radiation Detect

USAF-LA-2 (Introduction) WD-Effects & Instruments

Secret

United States Air Force  
Report of Operation Fitzwilliam,  
Introduction to Volume I. Design  
of operation and summary of results.  
n. d. 19 pp

USAF-LA-2  
(Introduction)  
United States  
Air Force  
Operation  
Fitzwilliam  
1. Atomic  
Explosions--  
Detection  
2. Fitzwilliam  
3. Long Range  
Detection

(cont'd on rd 2)

USAF-LA-2 (Introduction)<sup>2</sup> WD-Effects & Instruments

Secret

4. Sandstone  
5. Radiation Detection  
Instruments

JUN 16 1992

USAF-LA-2 (Tab A)

WD-Effects &  
Instruments

Secret

United States Air Force  
Report of Operation Fitzwilliam.  
Volume I. Tab A. Operations  
plan - Fitzwilliam.  
n. d. 13 pp

USAF-LA-2  
(Tab A )  
United States  
Air Force  
Operation Fitzwilliam  
1. Atomic Explosio  
Detection  
2. Fitzwilliam  
3. Long Range  
Detection  
4. Sandstone

( cont'd on card )

USAF-LA-3 (Tab E)

Secret

United States Air Force  
Report of Operation Fitzwilliam.  
Volume III. Tab E. Final report  
on Project SCAR, Phases II and  
III; Ground counters and filters.  
n. d. 45 pp

USAF-LA-3 (Tab E)  
United States  
Air Force  
Naval Research La  
NRL H-3348  
Operation  
Fitzwilliam  
2. Atomic  
Explosions--  
Detection  
2. Fitzwilliam

( cont'd on card 2 )

2

USAF-LA-3 (Tab E)

Secret

3. Long Range Detection  
4. Radiation Detection  
Instruments  
5. Sandstone  
6. Scalar



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USAF-LA-3 (Tab F)      WD Effects &  
 Instruments

United States Air Force  
 Report of Operation Fitzwilliam.  
 Volume III. Tab F. Recovery  
 and identification of fission  
 products.  
 n. d.      40 pp

Secret

USAF-LA-3 (Tab F)  
 United States Air  
 Force  
 Naval Research Lab.  
 NRL CN-3378  
 Operation Fitzwilliam

1. Atomic Explosions-  
Detection
2. Fitzwilliam
3. Long Range Detectio
4. Radiation Detectio  
Instruments
5. Sandstone

W-4-380

Secret

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~~USAF-LA-2 (Tab B)~~

WD-Effects & Instruments

Secret

United States Air Force  
Report of Operation Fitzwilliam.  
Volume I. Tab B. Operations  
order, Fitzwilliam Forward.  
n. d. 51 pp

USAF-LA-2 (Tab B)  
United States Air Force  
Operation Fitzwilliam  
1. Atomic Explosions  
--Detection  
2. Fitzwilliam  
3. Long Range Detection  
4. Sandstone  
5. Radiation Detection Instruments

USAF-LA-2 (Tab D)

WD-Effects & Instruments

Secret

United States Air Force  
Report of Operation Fitzwilliam.  
Volume I. Tab D. Project Firstrate,  
AWS participation in Fitzwilliam.  
n. d. 177 pp

USAF-LA-2 (Tab D)  
United States Air Force  
Operation Fitzwilliam  
1. Atomic Explosions--  
Detection  
2. Firstrate  
3. Fitzwilliam  
4. Long Range Detection

( cont'd on page 2 )

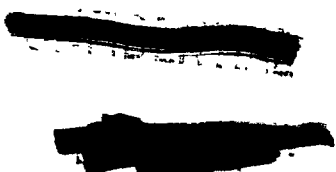
2

USAF-LA-2 (Tab D)

WD-Effects & Instruments

Secret

5. Sandstone  
6. Radiation Detection Instruments





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USAF-LA-2 (Tab C)      WD-Effects & Instruments

Secret

United States Air Force  
Report of Operation Fitzwilliam,  
Volume I. Tab C. Report of  
Fitzwilliam Forward.  
n. d.      80 pp

USAF-LA-2 (Tab C)  
United States Air Force  
Operation Fitzwilliam  
1. Atomic Explosions-  
Detection  
2. Fitzwilliam  
3. Sandstone  
4. Long Range Detect-  
ion  
5. Radiation Detect-  
ion Instruments

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Secret

United States Air Force  
Report of Operation Fitzwilliam.  
Volume III. Introduction. Nuclear  
detection by ground observations.  
n. d.      12 pp

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(Introduction)  
United States  
Air Force  
Operation  
Fitzwilliam  
1. Atomic  
Explosions--  
Detection  
2. Fitzwilliam  
3. Long Range  
Detection

( cont'd on card 2 )

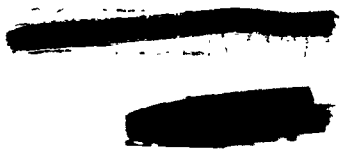
2

USAF-LA-3 (Introduction)

WD-Effects & Instruments

Secret

4. Radiation Detection  
Instruments  
5. Sandstone



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USAF-LA-3      WD-Effects & Instruments      Secret

United States Air Force  
Report of Operation Fitzwilliam.  
Volume III.

n. d. 111 pp

(cont'd on card)

USAF-LA-3  
United States Air  
Force  
Operation  
Fitzwilliam  
2. Atomic Explos-  
ions--Detection  
2. Fitzwilliam  
3. Long Range  
Detection  
4. Radiation  
Detection  
Instruments

USAF-LA-6      2  
WD-Effects & Instruments      Secret

- 5. Scalar
- 6. Sandstone

USAF-LA-3 (Tab C)      WD-Effects & Instruments      Secret

United States Air Force  
Report of Operation Fitzwilliam.  
Volume III. Tab C (Substitute sheet).  
Report on training phase for monitoring  
personnel.

n. d. 1 pp

(Cont'd on page 2)

USAF-LA-3  
United States  
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Operation  
Fitzwilliam  
1. Atomic  
Explosion  
--Detecti  
2. Fitzwilliam  
3. Long Range  
Detection

[Redacted]

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USAF-LA-3 (Tab C) WD-Effects & Instruments Secret

- 4. Radiation Detection Instruments
- 5. Sandstone

USAF-LA-3 (Tab D) WD-Effects & Instruments Secret

United States Air Force  
 Report of Operation Fitzwilliam,  
 Volume III, Tab D, Report on  
 monitoring field phase.  
 W.H. Faulkner, Jr. July 1948 18 pp

- USAF-LA-3 (Tab D)  
 United States Air  
 Force  
 Faulkner, W H, Jr  
 Operation  
 Fitzwilliam
- 1. Atomic Explosions--Detection
  - 2. Fitzwilliam
  - 3. Long Range Detection

(cont'd on card 2)

USAF-LA-3 (Tab D) WD-Effects & Instruments Secret

- 4. Radiation Detection Instruments
- 5. Sandstone

JUN 16 1992

FILM-OA-47 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood, Calif.  
BLAST MEASUREMENT GROUP IN OPERATION SANDSTONE. (MOTION PICTURE). 1948. Produced for Atomic Energy Commission and Naval Ordnance Laboratory. Project 19.9. 18 min., sd., color, 16 mm.

- 1. Sandstone--Blast
- 2. Sandstone. Project 19.9
- 3. Blast Measurements
- I. Corp. Author

N5 2/62

FILM-OA-16 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood, Calif.  
UNITED STATES ARMY ENGINEERS IN OPERATION SANDSTONE. (MOTION PICTURE). 1948. Produced for the Chief of Engineers, Dept. of the Army and the Atomic Energy Commission. Project 19.10. 20 min., sd., bw., 16mm.

- 1. Sandstone--Construction
- 2. Sandstone. Project 19.10
- I. Corp. Author

N4 2/62

FILM-OA-12 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood, Calif.  
JOURNEY TO ZEROPOINT. THE NAVAL RESEARCH LABORATORY IN OPERATION SANDSTONE. (MOTION PICTURE). 1948. Produced for the Atomic Energy Commission. Project 19.8. 45 min., sd., color, 16 mm.

- 1. Sandstone--Instrumentation
- 2. Sandstone. Project 19.8
- I. Corp. Author

N4 2/62



FILM-OA-46 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood, California.  
E.G.&G. IN OPERATION SANDSTONE.  
Project 19.18. (MOTION PICTURE).  
1948. Participation of Edgerton, Germeshausen & Grier, Inc. in Operation Sandstone. Produced for the Atomic Energy Commission. 16 min., sd., color, 16 mm.

- 1. Sandstone--Instrumentation
- 2. Sandstone. Project 19.18
- I. Corp. Author

N4 2/62

FILM-OA-4 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood, Calif.  
RADIOLOGICAL SAFETY ON OPERATION SANDSTONE. (MOTION PICTURE).  
1948. Produced for the Atomic Energy Commission and the Armed Forces.  
Project 19.13. 25 min., sd., bw., 16 mm.

- 1. Sandstone--Safety
- 2. Sandstone. Project 19.13
- I. Corp. Author

N4 2/62

FILM-OA-5 (Film: SECRET)

Lookout Mountain Laboratory, Hollywood, Calif.  
OPERATION SANDSTONE: X-RAY, YOKE, ZEBRA REPORT. PROJECT 19.1C.  
(MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 28 min., sd., color, 16 mm.

- 1. Sandstone. Project 19.1c
- 2. X-Ray Burst
- 3. Yoke Burst
- 4. Zebra Burst
- I. Corp. Author

N6 2/62



JUN 16 1994

FILM-OA-19 (Film: SECRET)

Lookout Mountain Laboratory, Hollywood, Calif.  
OPERATION SANDSTONE: X-RAY, YOKE, ZEBRA REPORT. Project 19.1D. (MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 21 min., sd., bw., 16 mm.

1. Sandstone. Project 19.1D
2. X-Ray Burst
3. Yoke Burst
4. Zebra Burst
- I. Corp. Author

N6 2/62

FILM-OA-26 (REELS I & II) (Film: SECRET)

Lookout Mountain Laboratory, Hollywood, Calif.  
ATOMIC PROVING GROUND: THE STORY OF OPERATION SANDSTONE. PROJECT 19.2. (MOTION PICTURE). 1948. Produced for the Atomic Energy Commission and the Los Alamos Scientific Laboratory. Reel I: 36 min., sd., bw., 16 mm. Reel II: 38 min., sd., bw., 16 mm.

1. Sandstone. Project 19.2
- I. Corp. Author

N3 2/62

FILM-OA-12 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood, Calif.  
JOURNEY TO ZEROPOINT. THE NAVAL RESEARCH LABORATORY IN OPERATION SANDSTONE. (MOTION PICTURE). 1948. Produced for the Atomic Energy Commission. Project 19.8. 45 min., sd., color, 16 mm.

1. Sandstone-- Instrumentation
2. Sandstone. Project 19.8
- I. Corp. Author

N4 2/62

JUN 16 1994

FILM-OA-47 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood, Calif.

BLAST MEASUREMENT GROUP IN OPERATION SANDSTONE. (MOTION PICTURE). 1948. Produced for Atomic Energy Commission and Naval Ordnance Laboratory. Project 19.9. 18 min., sd., color, 16 mm.

1. Sandstone--Blast
2. Sandstone. Project 19.9
3. Blast Measurements
  - I. Corp. Author

N5 2/62

FILM-OA-16 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood, Calif.

UNITED STATES ARMY ENGINEERS IN OPERATION SANDSTONE. (MOTION PICTURE). 1948. Produced for the Chief of Engineers, Dept. of the Army and the Atomic Energy Commission. Project 19.10. 20 min., sd., bw., 16mm.

1. Sandstone--Construction
2. Sandstone. Project 19.10
  - I. Corp. Author

N4 2/62

FILM-OA-4 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood, Calif.

RADIOLOGICAL SAFETY ON OPERATION SANDSTONE. (MOTION PICTURE). 1948. Produced for the Atomic Energy Commission and the Armed Forces. Project 19.13. 25 min., sd., bw., 16 mm.

1. Sandstone--Safety
2. Sandstone. Project 19.13
  - I. Corp. Author

N4 2/62

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JUN 16 1994

FILM-OA-46 (Film: UNCLASSIFIED)

Lookout Mountain Laboratory, Hollywood, California.  
E.G.&G. IN OPERATION SANDSTONE.  
Project 19.18. (MOTION PICTURE).  
1948. Participation of Edgerton, Germeshausen & Grier, Inc. in Operation Sandstone. Produced for the Atomic Energy Commission. 16 min., sd., color, 16 mm.

- 1. Sandstone-- Instrumentation
- 2. Sandstone.  
Project 19.18
- 1. Corp. Author

N4 2/62

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FILM-OA-5 (Film: SECRET)

JUN 16 1994

Lookout Mountain Laboratory, Hollywood, Calif.  
OPERATION SANDSTONE: X-RAY, YOKE, ZEBRA REPORT. PROJECT 19.1C (MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 28 min., sd color, 16 mm.

1. Sandstone. Project 19.1c
2. X-Ray Burst
3. Yoke Burst
4. Zebra Burst
1. Corp. Author

N6 2/62

FILM-OA-19 (Film: SECRET)

Lookout Mountain Laboratory, Hollywood, Calif.  
OPERATION SANDSTONE: X-RAY, YOKE, ZEBRA REPORT. Project 19.1D. (MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 21 min., sd., bw., 16 mm.

1. Sandstone. Project 19.1D
2. X-Ray Burst
3. Yoke Burst
4. Zebra Burst
1. Corp. Author

N6 2/62

FILM-OA-23 (Film: CONFIDENTIAL)

Lookout Mountain Laboratory, Hollywood, Calif.  
X.Y.Z. OPERATION SANDSTONE; X.Y.Z. RUSHES. (MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 10 min., sd., color, 16 mm.

1. Sandstone
2. X-Ray *Burst*
3. Yoke Burst
4. Zebra Burst
1. Corp. Author

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N6 2/62

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card 2

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- |                    |                                 |            |
|--------------------|---------------------------------|------------|
| 5. Greenhouse      | 16. Easy Burst                  | 27. Buster |
| 6. Buster          | 17. Buster Burst A              | Burst B    |
| 7. Tumbler-Snapper | 18. Dog Burst                   | 28. Buster |
| 8. Upshot-Knothole | 19. George Burst                | Burst C    |
| 9. Ivy             | 20. Item Burst                  | 29. Buster |
| 10. Castle         | 21. Charlie Burst               | Burst D    |
| 11. X-Ray Burst    | 22. Ranger Burst A              | 30. Buster |
| 12. Yoke Burst     | 23. Ranger Burst B              | Burst E    |
| 13. Zebra Burst    | 24. Ranger Burst B <sub>2</sub> | (Cont'd on |
| 14. Able Burst     | 25. Ranger Burst E              | card 3)    |
| 15. Baker Burst    | 26. Ranger Burst F              |            |

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|-----------------------------|----------------------------|
| 31. Tumbler-Snapper Burst 1 | 43. Upshot-Knothole Cliff  |
| 32. Tumbler-Snapper Burst 2 | 44. Upshot-Knothole Dixie  |
| 33. Tumbler-Snapper Burst 3 | 45. Upshot-Knothole Grable |
| 34. Tumbler-Snapper Burst 4 | 46. Upshot-Knothole Harry  |
| 35. Tumbler-Snapper Burst 5 | 47. Upshot-Knothole Encore |
| 36. Tumbler-Snapper Burst 6 | 48. Upshot-Knothole Nancy  |
| 37. Tumbler-Snapper Burst 7 | 49. Upshot-Knothole Ray    |
| 38. Tumbler-Snapper Burst 8 | 50. Upshot-Knothole Ruth   |
| 39. Mike Burst              | 51. Upshot-Knothole Simon  |
| 40. King Burst              | 52. Mark III Weapon        |
| 41. Upshot-Knothole Annie   | (Cont'd on card 4)         |
| 42. Upshot-Knothole Badger  |                            |

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card 8

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LAMD-1186

Secret

Los Alamos Scientific Laboratory  
California. University. Radiation  
Lab. Livermore Site.

LAMD-1186  
LASL.  
Calif. U. Radiation  
Lab. Livermore Site

The necessity for and value of  
continental tests.

Darol Froman August 28, 1953  
24p.

- Froman, Darol F
- 1. Pacific Proving Grounds
- 2. Nevada Proving Grounds
- 3. Sandstone
- 4. Ranger
- (Cont'd on card 2)

Auth. No. CX-827-14A

LAMD-926

Secret

Los Alamos Scientific Laboratory.  
J Div.

Analysis of spike growth and  
fireball height at Sandstone.  
Houghten, et al January 17,  
1950 12 pp

LAMD-926  
LASL. J Div.  
Houghten, Richard A  
Orphan, Richard C  
Smith, John M  
J-745

- Title  
SD-1099  
Sandstone
- 1. Ball of Fire
  - 2. Jets (Explosion)
  - 3. X-ray Burst - Ball of Fire
  - 4. Yoke Burst - Ball of Fire
  - 5. Zebra Burst - Ball of Fire

IA-6567 (Rpt: S-RD)  
Los Alamos Scientific Lab., NM.  
DESIGN STUDY REPORT FOR AN ICNDS/GPS X-RAY  
BURST DETECTOR (U). Harold V. Argo, James A.  
Bergey and W. Doyle Evans. December 1976.  
21p.

- CD: UNCLASS.
- I. Authors (3)
  - II. Corp. Auth.
    - 1. Atomic Explosions --Detection & Measurement
    - 2. X-Ray Burst--  
Detection &  
Measurement
    - 3. GPS

1-20-77 c. 9A, 10A, 11A, 12A, 13A, 14A, 15A, 16A,  
17A, 18A, 19A, 20A, 21A, 22A, 23A, 24A,  
25A, 26A, 27A, 28A, 29A, 30A, 31A, 32A,  
33A, 34A, 35A, 36A, 37A, 38A, 39A, 40A

N8

JUN 16 1994

~~CONFIDENTIAL~~  
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137

PIOR-1267 (Rpt: S-RD)  
Physics International Co., San Leandro, CA.  
DOE/ICF SUPPORT. QUARTERLY PROGRESS REPORT.  
G. Dahlbacka et al. Nov. 1979. 100p.

CD: UNCLASS.  
I. Auth.  
II. Corp. Auth.  
1. X-Ray Burst--  
Detection and  
Measurements  
2. Electron Beams

3-4-80

c.2A,7A

N5

J-2096 (Report: SECRET) cd: UNCLASSIFIED

Los Alamos Scientific Lab., New Mexico  
SLOW NEUTRONS FROM THE SAND-  
STONE NUCLEAR BOMBS AS  
MEASURED BY ARSENIC DETECTORS.  
William Ogle, Wendell Biggers, Arthur  
Carson, Edward Dodds, Robert England,  
George Everhart, Warren Nyer,  
Marshall Holloway, Stanley Burriss,  
and Gustave A. Linenberger. 21p.  
n.d.

I. Authors (10)  
II. Corp. Auth.  
1. Slow Neutrons  
--Measurement  
2. X-Ray Burst--  
Neutron  
Measurements  
3. Yoke Burst--  
Neutron  
Measurements  
4. Zebra Burst--  
Neutron Measure-  
ments

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FILM-OA-5 (Film: SECRET)

|   |                      |
|---|----------------------|
| Lookout Mountain Laboratory, Hollywood, Calif.  | 1. Sandstone.        |
| OPERATION SANDSTONE: X-RAY, YOKE, ZEBRA REPORT. PROJECT 19.1C.  | Project 19.1c        |
| (MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 28 min., sd., color, 16 mm. | 2. X-Ray Burst       |
|   | 3. <u>Yoke Burst</u> |
|   | 4. Zebra Burst       |
|   | I. Corp. Author      |

N6 2/62

FILM-OA-19 (Film: SECRET)

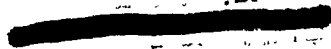
|   |                      |
|---|----------------------|
| Lookout Mountain Laboratory, Hollywood, Calif.  | 1. Sandstone.        |
| OPERATION SANDSTONE: X-RAY, YOKE, ZEBRA REPORT. Project 19.1D.  | Project 19.1D        |
| (MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 21 min., sd., bw., 16 mm. | 2. X-Ray Burst       |
|   | 3. <u>Yoke Burst</u> |
|   | 4. Zebra Burst       |
|   | I. Corp. Author      |

N6 2/62

FILM-OA-23 (Film: CONFIDENTIAL)

|  |                      |
|--|----------------------|
| Lookout Mountain Laboratory, Hollywood, Calif.   | 1. Sandstone         |
| X. Y. Z. OPERATION SANDSTONE; X. Y. Z. RUSHES. (MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 10 min., sd., color, 16 mm. | 2. X-Ray             |
|  | 3. <u>Yoke Burst</u> |
|  | 4. Zebra Burst       |
|  | I. Corp. Author      |

N6 2/62



LAMD-1186

card 2

Secret

- |                           |                                 |            |
|---------------------------|---------------------------------|------------|
| 5. Greenhouse             | 16. Easy Hurst                  | 27. Buster |
| 6. Buster                 | 17. Buster Burst A              | Burst B    |
| 7. Tumbler-Snapper        | 18. Dog Hurst                   | 28. Buster |
| 8. Upshot-Knothole        | 19. George Burst                | Burst C    |
| 9. Ivy                    | 20. Item Hurst                  | 29. Buster |
| 10. Castle                | 21. Charlie Burst               | Burst D    |
| 11. X-Ray Burst           | 22. Ranger Burst A              | 30. Buster |
| 12. <del>Yoke Burst</del> | 23. Ranger Burst B              | Burst E    |
| 13. Zebra Burst           | 24. Ranger Burst B <sub>2</sub> |            |
| 14. Able Burst            | 25. Ranger Burst E              | (Cont'd on |
| 15. Baker Burst           | 26. Ranger Burst F              | card 3)    |

LAMD-1186

card 3

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LAMD-1186

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SECRET  
LAMD-1186

Los Alamos Scientific Laboratory  
California. University. Radiation  
Lab. Livermore Site.  
The necessity for and value of  
continental tests.  
Darol Froman August 28, 1953  
24p.  
Auth. No. CX-827-14A

Secret

LAMD-1186  
LASL.  
Calif. U. Radiation  
Lab. Livermore Site  
Froman, Darol F  
1. Pacific Proving  
Grounds  
2. Nevada Proving  
Grounds  
3. Sandstone  
4. Ranger  
(Cont'd on card 2)

LAMD-921

Los Alamos Scientific Laboratory  
A summary of visible and  
thermal radiation from atom  
bombs as a function of time.  
R. Houghten September 15, 1949  
7 pp

Secret

LAMD-921  
LASL J-Div.  
Houghten, Richard  
J-620  
Title  
Sandstone  
1. Atomic Explo-  
sions - Ther-  
mal Radiation  
2. Atomic Explo-  
sions - Visible  
Radiation  
3. Yoke Burst -  
Ball of Fire

4 Zebra Burst Ball of Fire  
SD 625

LAMD-926

Los Alamos Scientific Laboratory.  
J Div.  
Analysis of spike growth and  
fireball height at Sandstone.  
Houghten, et al January 17,  
1950 12 pp

Secret

LAMD-926  
LASL. J Div.  
Houghten, Richard A  
Orphan, Richard C  
Smith, John M  
J-745  
Title  
SD-1099  
Sandstone  
1. Ball of Fire  
2. Jets (Explo-  
sion)  
3. X-ray Burst -  
Ball of Fire

4 Yoke Burst Ball of Fire

JUN 16 1994

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LAMD-812

Los Alamos Scientific Laboratory  
Altitude of the cloud top  
versus time for the yoke bomb.  
R. A. Houghten 11 July 1950  
. 3 pp

Secret

LAMD-812  
Los Alamos  
Scientific Lab.  
Houghten, Richard  
A

T-1146  
SD-2567

Title

1. Atomic Cloud
2. Cloud Formation
3. Yoke Burst -  
Cloud Formation

J-2096 (Report: SECRET) cd: UNCLASSIFIED

Los Alamos Scientific Lab., New Mexico  
SLOW NEUTRONS FROM THE SAND-  
STONE NUCLEAR BOMBS AS  
MEASURED BY ARSENIC DETECTORS.  
William Ogle, Wendell Biggers, Arthur  
Carson, Edward Dodds, Robert England,  
George Everhart, Warren Nyer,  
Marshall Holloway, Stanley Burriss,  
and Gustave A. Linenberger. 21p.  
n.d.

- I. Authors (10)
- II. Corp. Auth.
  1. Slow Neutrons  
--Measurement
  2. X-Ray Burst--  
Neutron  
Measurements
  3. Yoke Burst--  
Neutron  
Measurements
  4. Zebra Burst--  
Neutron Measure-  
ments

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FILM-OA-5 (Film: SECRET)

Lookout Mountain Laboratory, Hollywood, Calif.  
OPERATION SANDSTONE: X-RAY, YOKE, ZEBRA REPORT. PROJECT 19.1C. (MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 28 min., sd., color, 16 mm.

- 1. Sandstone. Project 19.1c
- 2. X-Ray Burst
- 3. Yoke Burst
- 4. Zebra Burst
- I. Corp. Author

N6 2/62

FILM-OA-19 (Film: SECRET)

Lookout Mountain Laboratory, Hollywood, Calif.  
OPERATION SANDSTONE: X-RAY, YOKE, ZEBRA REPORT. Project 19.1D. (MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 21 min., sd., bw., 16 mm.

- 1. Sandstone. Project 19.1D
- 2. X-Ray Burst
- 3. Yoke Burst
- 4. Zebra Burst
- I. Corp. Author

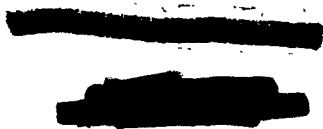
N6 2/62

FILM-OA-23 (Film: CONFIDENTIAL)

Lookout Mountain Laboratory, Hollywood, Calif.  
X.Y.Z. OPERATION SANDSTONE; X.Y.Z. RUSHES. (MOTION PICTURE). 1948. Produced for Joint Task Force Seven and the Atomic Energy Commission. 10 min., sd., color, 16 mm.

- 1. Sandstone
- 2. X-Ray
- 3. Yoke Burst
- 4. Zebra Burst
- I. Corp. Author

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LAMD-1186

card 2

Secret

- |                    |                                 |            |
|--------------------|---------------------------------|------------|
| 5. Greenhouse      | 16. Easy Burst                  | 27. Buster |
| 6. Buster          | 17. Buster Burst A              | Burst B    |
| 7. Tumbler-Snapper | 18. Dog Burst                   | 28. Buster |
| 8. Upshot-Knothole | 19. George Burst                | Burst C    |
| 9. Ivy             | 20. Item Burst                  | 29. Buster |
| 10. Castle         | 21. Charlie Burst               | Burst D    |
| 11. X-Ray Burst    | 22. Ranger Burst A              | 30. Buster |
| 12. Yoke Burst     | 23. Ranger Burst B              | Burst E    |
| 13. Zebra Burst    | 24. Ranger Burst B <sub>2</sub> | (Cont'd on |
| 14. Able Burst     | 25. Ranger Burst E              | card 3)    |
| 15. Baker Burst    | 26. Ranger Burst F              |            |

LAMD-1186

card 3

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LAMD-1186

Secret

Los Alamos Scientific Laboratory  
California. University. Radiation  
Lab. Livermore Site.

The necessity for and value of  
continental tests.

Darol Froman August 28, 1953  
24p.

Auth. No. CX-827-14A

LAMD-1186

LASL.

Calif. U. Radiation  
Lab. Livermore Site

Froman, Darol F

1. Pacific Proving  
Grounds

2. Nevada Proving  
Grounds

3. Sandstone

4. Ranger

(Cont'd on card 2)

LAMD-926

4. Yoke Burst - Ball of  
Fire

5. Zebra Burst - Ball of  
Fire

J-2096 (Report: SECRET) cd: UNCLASSIFIED

Los Alamos Scientific Lab., New Mexico  
SLOW NEUTRONS FROM THE SAND-  
STONE NUCLEAR BOMBS AS  
MEASURED BY ARSENIC DETECTORS.  
William Ogle, Wendell Biggers, Arthur  
Carson, Edward Dodds, Robert England,  
George Everhart, Warren Nyer,  
Marshall Holloway, Stanley Burriss,  
and Gustave A. Linenberger. 21p.  
n.d.

I. Authors (10)

II. Corp. Auth.

1. Slow Neutrons  
--Measurement

2. X-Ray Burst--  
Neutron  
Measurements

3. Yoke Burst--  
Neutron  
Measurements

4. Zebra Burst--  
Neutron Measure-  
ments

1-29-6

CONFIDENTIAL

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JUN 16 1950

WT-9001

card 1

Secret

- 5. Zebra Burst--Yield
  - 6. Ranger Burst A--Yield
  - 7. Ranger Burst B<sub>1</sub>--Yield
  - 8. Ranger Burst B<sub>2</sub>--Yield
  - 9. Ranger Burst E--Yield
  - 10. Ranger Burst F--Yield
  - 11. Dog Burst--Yield
  - 12. Easy Burst--Yield
  - 13. George Burst--Yield
  - 14. Item Burst--Yield
  - 15. Buster Burst B--Yield
  - 16. Buster Burst C--Yield
  - 17. Buster Burst D--Yield
  - 18. Buster Burst E--Yield
  - 19. Gangle S Burst--Yield
  - 20. ~~Jangle S Burst--Yield~~
  - 20. Tumbler-Snapper Burst 1--Yield
  - 21. Tumbler-Snapper Burst 2--Yield
  - 22. Tumbler Snapper Burst 3--Yield
  - 23. Tumbler Snapper Burst 4--Yield
- (Cont'd on card 3)

WT-9001

card 3

Secret

- 24. Tumbler Snapper Burst 5--Yield
- 25. Mike Burst--Yield
- 26. King Burst--Yield
- 27. Upshot-Knothole Annie--Yield
- 28. Upshot-Knothole Badger--Yield
- 29. Upshot-Knothole Climax--Yield
- 30. Upshot-Knothole Bixie--Yield
- 31. Upshot-Knothole Encore--Yield
- 32. Upshot-Knothole Grable--Yield
- 33. Upshot-Knothole Nancy--Yield
- 34. Upshot-Knothole Harry--Yield
- 35. Upshot-knothole Ray--Yield
- 36. Upshot-Knothole Ruth--Yield
- 37. Upshot-Knothole Simon--Yield

WT-9001

Secret

Los Alamos Scientific Laboratory  
 Preliminary hydrodynamic yields  
 of nuclear weapons. General  
 report on Weapons Test.  
 Francis B. Porzel Dec. 1953 69p.

- WT-9001
- LASL
- Porzel, Francis B
- 1. Trinity Burst--Yield
- 2. Able Burst--Yield
- 3. X-Ray Burst--Yield
- 4. Yoke Burst--Yield

(Cont'd on card 2)

JUN 16 1994

Greenhouse Annex 2.4, Part I, Sec. 1 Final  
Los Alamos Scientific Lab., N. Mex.  
BIOLOGICAL EFFECTIVENESS OF INITIAL  
GAMMA RADIATION FROM AN ATOMIC WEAPON.  
Robert E. Carter, Wright H. Langham,  
Ernest C. Anderson, George W. Taylor,  
James T. Brennan, Payne S. Harris,  
Ernest A. Pinson, Theodoro T. Trujillo,  
Robert L. Schuch and Martha Benson,  
George V. LeRoy, Alvin C. Graves.  
August 1951. 51p.

Cd: UNCLASSIFIED  
(Rpt: SECRET)  
I. Authors (12)  
II. Corp. Auth.  
1. Easy Burst  
2. Dog Burst  
3. George Burst  
4. Mice--Effects  
of Radiation  
5. Gamma Radiation  
--Biological  
Effects

3-30-67

N19

Greenhouse Annex 2.4 Part I, Sec. 2 (Final Draft) (Rpt: SECRET)  
Los Alamos Scientific Lab., N. Mex.  
ANNEX NUMBER 2.4, PART I. DOSIMETRY  
USING MICE - SECTION 2, NEUTRONS.  
FINAL DRAFT. Ind. 53p.

Cd: UNCLASSIFIED  
(Rpt: SECRET)  
I. Corp. Auth.  
1. Dog Burst  
2. George Burst  
3. Mice--Effects  
of Radiation

3-30-67

N5

LAMD-1164

Secret

Los Alamos Scientific Lab.  
Calculations for I, D, E spectra,  
also later Greenhouse calculat-  
ions.  
August 1951 150p.

LAMD-1164  
LASL  
1. Dog Burst  
2. Easy Burst  
3. Item Burst  
4. Greenhouse

LAMD-1167

Secret

Los Alamos Scientific Lab.  
D Spectrum. (A Plates).  
Dog Shot.  
August 17, 1951 30p.

LAMD-1167  
LASL  
1. Dog Burst  
2. Greenhouse

LAMD-1186

card 2

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- |                    |                                 |            |
|--------------------|---------------------------------|------------|
| 5. Greenhouse      | 16. Easy Burst                  | 27. Buster |
| 6. Buster          | 17. <del>Buster Burst A</del>   | Burst B    |
| 7. Tumbler-Snapper | 18. <del>Dog Burst</del>        | 28. Buster |
| 8. Upshot-Knothole | 19. <del>George Burst</del>     | Burst C    |
| 9. Ivy             | 20. Item Burst                  | 29. Buster |
| 10. Castle         | 21. Charlie Burst               | Burst D    |
| 11. X-Ray Burst    | 22. Ranger Burst A              | 30. Buster |
| 12. Yoke Burst     | 23. Ranger Burst B              | Burst E    |
| 13. Zebra Burst    | 24. Ranger Burst B <sub>2</sub> | (Cont'd on |
| 14. Able Burst     | 25. Ranger Burst E              | card 3)    |
| 15. Baker Burst    | 26. Ranger Burst F              |            |

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LAMD-1186

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JUN 16 1994

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LAMD-1186

~~SECRET~~

Los Alamos Scientific Laboratory  
California. University. Radiation  
Lab. Livermore Site.

The necessity for and value of  
continental tests.

Darol Froman August 28, 1953  
24p.

Auth. No. CX-827-14A

LAMD-1186

LASL.

Calif. U. Radiation  
Lab. Livermore Site

Froman, Darol F

1. Pacific Proving  
Grounds

2. Nevada Proving  
Grounds

3. Sandstone

4. Ranger

(Cont'd on card 2)

EG&G-1067

Secret

Edgerton, Germeshausen & Grier, Inc.  
Rapatronic photography of the  
fireball.

February 11, 1952

17 pp

EG&G-1067

Edgerton, Germes-  
hausen & Grier,  
Inc.

EG&G Out 756

Buster

Greenhouse

Jangle

1. Ball of Fire-  
Photographic  
Analysis

2. Buster Burst  
B--Ball of  
Fire

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- 3. Buster Burst C--Ball of Fire
- 4. Buster Burst E--Ball of Fire
- 5. Dog Burst--Ball of Fire
- 6. Easy Burst--Ball of Fire
- 7. George Burst--Ball of Fire
- 8. Item Burst--Ball of Fire
- 9. Jangle S Burst--Ball of Fire

EG&G-OUT-740-Vol. I

Secret

Edgerton, Germeshausen & Grier  
 Ball-of-fire observations.  
 23 Oct. 1952 128p.

EG&G-OUT-740-  
 Vol. I  
 Edgerton,  
 Germeshausen &  
 Grier

6. Dog Burst--Ball of fire

- 1. High Speed Photography
- 2. Greenhouse
- 3. Eastman High Speed Camera
- 4. pastat Camera

(Cont'd on card 2)

EG&G-OUT-740-Vol. I

card 2

Secret

- 5. Rapatronic Camera
- 6. Dog Burst--Ball of Fire
- 7. Easy Burst--Ball of Fire
- 8. George Burst--Ball of Fire
- 9. Item Burst--Ball of Fire



Edgerton, Germeshausen & Grier  
Ball-of-fire observations.  
23 October 1952 127p.

EG&G-OUT-740-  
Vol. II  
Edgerton,  
Germeshausen &  
Grier  
1. Easy Burst--  
Ball of Fire  
2. Dog Burst--  
Ball of Fire  
3. George Burst--  
Ball of Fire

- 4. Item Burst--Ball of Fire
- 5. Greenhouse

EG&G-OUT-999

Secret

Edgerton, Germeshausen & Grier  
Memorandum, Greenhouse diameter-  
time characteristics. Eastman,  
Fastax and Rapatronic.  
19 August 1952 23p.

EG&G-OUT-999  
Edgerton,  
Germeshausen &  
Grier  
1. Dog Burst--  
Ball of Fire  
2. Easy Burst--  
Ball of Fire  
3. George Burst--  
Ball of Fire

- 4. Item Burst--Ball of Fire
- 5. Greenhouse

EG&G-OUT-1161

Secret

Edgerton, Germeshausen & Grier  
Greenhouse fireball data.  
Report No.1088.  
12 August 1953 14p.

EG&G-OUT-1161  
Edgerton,  
Germeshausen &  
Grier  
EG&G-1088  
1. Dog Burst--  
Ball of Fire  
2. Easy Burst--  
Ball of Fire  
3. George Burst--  
Ball of Fire

- 4. Item Burst--Ball of Fire
- 5. Greenhouse

~~SECRET~~

~~CONFIDENTIAL~~

JUN 16 1951

AD-320 (RX)

Naval Radiological Defense Lab.  
Special progress report on  
USNRDL participation in Operation  
Greenhouse.  
Paul C. Tompkins June 13, 1951  
41 pp

Secret  
AD-320 (RX)  
Naval Radiological  
Defense Lab.  
Tompkins, Paul C  
1. Dog Burst--Cloud  
2. Dog Burst--Fall  
Out  
3. Dog Burst--Total  
Gamma Radiation  
4. Easy Burst--  
Cloud  
5. Easy Burst--  
Fall O. +

6. Easy Burst - Total Gamma  
Radiation  
7. George Burst - Cloud

EG&G-OUT-996B

Egerton, Germeshausen & Grier,  
Inc.  
MEMORANDUM, RADIOACTIVE CLOUD  
SIZE GREENHOUSE, BUSTER-JANGLE,  
TUMBLER-SNAPPER.  
7 Aug. 1952 5p.

SECRET  
1. Atomic Cloud  
2. Buster Burst A--  
Cloud Formation  
3. Buster Burst B--  
Cloud Formation  
4. Buster Burst C--  
(96p. data deleted) Cloud Formation  
5. Buster Burst D--  
Cloud Formation  
6. Buster Burst E--  
Cloud Formation  
(Cont'd on card 2)

EG&G-OUT-996B

card 2

SECRET

- 7. Dog Burst--Cloud Formation
- 8. Easy Burst--Cloud Formation
- 9. George Burst--Cloud Formation
- 10. Item Burst--Cloud Formation
- 11. Tumbler-Snapper Burst 1--Cloud Formation
- 12. Tumbler-Snapper Burst 2--Cloud Formation
- 13. Tumbler-Snapper Burst 3--Cloud Formation
- 14. Tumbler-Snapper Burst 4--Cloud Formation
- 15. Tumbler-Snapper Burst 5--Cloud Formation
- 16. Tumbler-Snapper Burst 6--Cloud Formation
- 17. Tumbler-Snapper Burst 7--Cloud Formation
- 18. Tumbler-Snapper Burst 8--Cloud Formation
- I. Egerton, Germeshausen & Grier, Inc.

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~~SECRET~~

JUN 16 1994

XXVIII-1380

Los Alamos Scientific Laboratory  
Greenhouse Handbook of nuclear  
explosions. Part I - Theory.  
Volume III, Scientific director's  
report of atomic weapon tests at  
Eniwetok, 1951.  
Suydam, et al 17 March 1951 280p.

XXVIII-1380  
LASL  
Suydam, Bergen R  
Galentine, Paul G  
Langham, Wright H  
Porzel, Francis B  
Zadina, Edward J  
1. Greenhouse—  
Diagnostic  
Experiments  
(Cont'd on card 2)

XXVIII-1380

card 2

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AD-327 (2)

Naval Radiological Defense Lab.  
Current status of countermeasures  
against radiological contamina-  
tion resulting from an atomic  
detonation. Part II.  
1 July 1951 136 pp

Secret

AD-327 (2)  
Naval Radiological  
Defense Lab.

- Title
1. Alpha Particles  
- Detection &  
Measurement
  2. Beta Particles  
- Detection &  
Measurement
  3. Chemical Contam-  
ination
  4. Clothing - Decon-  
tamination

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JUN 16 1992

AD-327 (Z)

5. Decontaminating Solutions
6. Decontamination
7. Detergents
8. Dog Burst - Fall Out
9. Dog Burst - Residual Radiation
10. Gamma Radiation - Detection & Measurement
11. Paint - Decontamination
12. Radiation Detection Instruments
13. Radioactive Contamination
14. Ships - Contamination

AD-327 (Z)

15. Soil - Contamination
16. Surface Bursts
17. Underground Bursts
18. Underground Explosions
19. Underwater Bursts

NRL-3963

Naval Research Laboratory  
 Final report Greenhouse, Project  
 B-29 and Project B-28.  
 March 3, 1952 85 pp

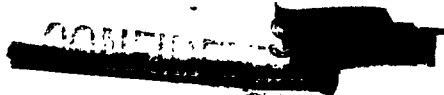
Secret

NRL-3963  
 Naval Research Lab.  
 Greenhouse  
 1. Atomic Cloud --Sampling  
 2. Dog Burst-- Detection  
 3. Dog Burst-- Fission Products  
 4. Easy Burst-- Detection

cont'd on back

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- 5. Easy Burst--Fission Products
- 6. Fall Out
- 7. Fraction-of-Bomb
- 8. George Burst--Detection
- 9. Greenhouse--Cloud Travel
- 10. Greenhouse--Fission Products
- 11. Item Burst--Detection
- 12. Rainwater--Analysis

APL/JHU-TG-129

Johns Hopkins University. Applied  
 Physics Laboratory  
 Telemetering of the free air  
 peak overpressure of an atomic  
 explosion. Interim report.  
 R. T. Ellis March 17, 1952  
 219 pp

(con't on back)

Secret

APL/JHU-TG-129  
 Johns Hopkins  
 Univ. Applied  
 Physics Lab.  
 Ellis, R T  
 Foner, S N  
 Higgins, R K  
 Young, C G

- 1. Dog Burst--  
Overpressure
- 2. Easy Burst--  
Overpressure
- 3. Overpressure

4. Telemetering Systems

NRL-4434

SECRET

Naval Research Laboratory  
 ATLAS OF HIGH DISPERSION SPECTRA  
 RECORDED AT GREENHOUSE. AUXILLARY  
 REPORT ON SPECTROGRAPHIC MEASURE-  
 MENTS, OPERATION GREENHOUSE. PRO-  
 JECT NRLH - THERMAL RADIATION.  
 Curcio, J A 1 Sept. 1954 50p.

- 1. Dog Burst--  
Spectroscopy
- 2. Easy Burst--  
Spectroscopy
- 3. Item Burst--  
Spectroscopy
- 4. George Burst--  
Spectroscopy
- I. Curcio, J A
- II. Naval Research Lab.



JUN 16 1994

J-8704

Secret

Los Alamos Scientific Laboratory  
A handbook for the diagnostic  
experiments of Operations  
Buster and Jangle. (Abridged  
Version).

William E. Ogle October 1, 1951  
145 pp

- J-8704
- IASL
- Ogle, William E
- Title
- Buster
- Jangle
- 1. "Alpha" Measure-  
ments
- 2. Ball of Fire
- 3. Beta Densit-  
ometer
- 4. Blast
- 5. Blast  
Measurements

J-8704

Page 2

~~SECRET~~

- 15. Buster Burst B - Transit  
Time
- 16. Buster Burst B - Yield
- 17. Buster Burst C - "Alpha"  
Measurements
- 18. Buster Burst C - Gamma  
Emission
- 19. Buster Burst C - Thermal  
Radiation
- 20. Buster Burst C - Transit  
Time
- 21. Buster Burst C - Yield
- 22. Buster Burst D - "Alpha"  
Measurements
- 23. Buster Burst D - Gamma  
Emission

J-8704

Page 3

Secret

- 35. Gamma Radiation - Detection and  
Measurement
- 36. George Burst - Thermal Radiation
- 37. Item Burst - Thermal Radiation
- 38. Jangle - Instrumentation
- 39. Jangle S Burst - "Alpha" Measurements
- 40. Jangle S Burst - Thermal Radiation
- 41. Jangle S Burst - Transit Time
- 42. Jangle S Burst - Yield
- 43. Jangle U Burst - "Alpha" Measurements
- 44. Jangle U Burst - Transit Time
- 45. Jangle U Burst - Yield
- 46. JATO
- 47. Neutron Detection and Measurement
- 48. Soil - Equation of State

JUN 16 1994

J-8704

6. Buster - Instrumentation  
Buster Burst A - "Alpha"  
Measurements
8. Buster Burst A - Gamma  
Emission
9. Buster Burst A - Thermal  
Radiation
10. Buster Burst A - Transit  
Time
11. Buster Burst A - Yield
12. Buster Burst B - "Alpha"  
Measurements
13. Buster Burst B - Gamma  
Emission
14. Buster Burst B - Thermal  
Radiation

J-8704

24. Buster Burst D - Thermal  
Radiation
25. Buster Burst D - Transit Time
26. Buster Burst D - Yield
27. Buster Burst E - "Alpha"  
Measurements
28. Buster Burst E - Gamma  
Emission
29. Buster Burst E - Thermal  
Radiation
30. Buster Burst E - Transit Time
31. Buster Burst E - Yield
32. Diagnostic Experiments
33. Dog Burst - Thermal Radiation
34. Easy Burst - Thermal Radiation

J-8704

49. Thermal Radiation - Detection  
and Measurement
50. Underground Bursts

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Greenhouse Annex 2.4, Part I, Sec. 1 Final  
Los Alamos Scientific Lab., N. Mex.  
BIOLOGICAL EFFECTIVENESS OF INITIAL  
GAMMA RADIATION FROM AN ATOMIC WEAPON.  
Robert E. Carter, Wright H. Laigam,  
Ernest C. Anderson, George W. Taylor,  
James T. Brennan, Payne S. Harris,  
Ernest A. Pinson, Theodoro T. Trujillo,  
Robert L. Schuch and Martha Benson,  
George V. LeRoy, Alvin C. Graves.  
August 1951. 51p.

Cd: UNCLASSIFIED  
(Rpt: SECRET)  
I. Authors (12)  
II. Corp. Auth.  
1. Easy Burst  
2. Dog Burst  
3. George Burst  
4. Mice--Effects of Radiation  
5. Gamma Radiation --Biological Effects

3-30-67

N19

LAMD-1164

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Los Alamos Scientific Lab.  
Calculations for I, D, E spectra,  
also later Greenhouse calculations.  
August 1951 150p.

LAMD-1164  
LASL  
1. Dog Burst  
2. Easy Burst  
3. Item Burst  
4. Greenhouse

LAMD-1169

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Los Alamos Scientific Lab.  
E Spectra. (B Plates).  
Easy Shot.  
August 17, 1951 35p.

LAMD-1169  
LASL  
1. Easy Burst  
2. Greenhouse



JUN 16 1994

LAMD-1186

card 2

- |                    |                                 |            |
|--------------------|---------------------------------|------------|
| 5. Greenhouse      | 16. Easy Burst                  | 27. Buster |
| 6. Buster          | 17. Buster Burst A              | Burst B    |
| 7. Tumbler-Snapper | 18. Dog Burst                   | 28. Buster |
| 8. Upshot-Knothole | 19. George Burst                | Burst C    |
| 9. Ivy             | 20. Item Burst                  | 29. Buster |
| 10. Castle         | 21. Charlie Burst               | Burst D    |
| 11. X-Ray Burst    | 22. Ranger Burst A              | 30. Buster |
| 12. Yoke Burst     | 23. Ranger Burst B              | Burst E    |
| 13. Zebra Burst    | 24. Ranger Burst B <sub>2</sub> |            |
| 14. Able Burst     | 25. Ranger Burst E              | (Cont'd on |
| 15. Baker Burst    | 26. Ranger Burst F              | card 3)    |

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JUN 16 1953

Los Alamos Scientific Laboratory  
California, University. Radiation  
Lab. Livermore Site.

The necessity for and value of  
continental tests.  
Darol Froman August 28, 1953  
24p.

Auth. No. CX-827-14A

LAMD-1186  
LASL.  
Calif. U. Radiation  
Lab. Livermore Site  
Froman, Darol F  
1. Pacific Proving  
Grounds  
2. Nevada Proving  
Grounds  
3. Sandstone  
4. Ranger  
(Cont'd on card 2)

EG&G-1067

Edgerton, Germeshausen & Grier, Inc.  
Rapatronic photography of the  
fireball.  
February 11, 1952 17 pp

Secret

EG&G-1067  
Edgerton, Germes-  
hausen & Grier,  
Inc.

EG&G Out 756  
Buster  
Greenhouse  
Jangle

1. Ball of Fire--  
Photographic  
Analysis
2. Buster Burst  
B--Ball of  
Fire

3. Buster Burst C - Ball of Fire
4. Buster Burst E - Ball of Fire
5. Dog Burst - Ball of Fire
6. Easy Burst Ball of Fire
7. George Burst Ball of Fire
8. Ikon Burst - Ball of Fire

Secret 9. Jangle S Burst Ball  
of Fire

EG&G-OUT-740-Vol. I

Edgerton, Germeshausen & Grier  
Ball-of-fire observations.  
23 Oct. 1952 128p.

EG&G-OUT-740-  
Vol. I

Edgerton,  
Germeshausen &  
Grier

7. Easy Burst -- Ball of Fire

1. High Speed  
Photography
2. Greenhouse
3. Eastman High  
Speed Camera
4. pastat Camera

(Cont'd on card 2)

JUN 16 1994

- 5. Rapatronic Camera
- 6. Dog Burst--Ball of Fire
- 7. Easy Burst--Ball of Fire
- 8. George Burst--Ball of Fire
- 9. Item Burst--Ball of Fire

EG&G-OUT-740-Vol. II

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Edgerton, Germeshausen & Grier  
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 23 October 1952 127p.

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Edgerton,  
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- 4. Item Burst--Ball of Fire
- 5. Greenhouse

- 1. Easy Burst--  
Ball of Fire
- 2. Dog Burst--  
Ball of Fire
- 3. George Burst--  
Ball of Fire

EG&G-OUT-999

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Edgerton, Germeshausen & Grier  
 Memorandum, Greenhouse diameter-  
 time characteristics. Eastman,  
 Fastax and Rapatronic.  
 19 August 1952 23p.

EG&G-OUT-999  
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- 4. Item Burst--Ball of Fire
- 5. Greenhouse

- 1. Dog Burst--  
Ball of Fire
- 2. Easy Burst--  
Ball of Fire
- 3. George Burst--  
Ball of Fire

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EG&G-OUT-1161

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Report No.1088.  
12 August 1953 14p.

EG&G-OUT-1161  
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Grier  
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Ball of Fire  
2. Easy Burst--  
Ball of Fire  
3. George Burst--  
Ball of Fire

- 4. Item Burst--Ball of Fire
- 5. Greenhouse

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Special progress report on  
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Greenhouse.  
Paul C. Tompkins June 13, 1951  
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Tompkins, Paul C  
1. Dog Burst--Cloud  
2. Dog Burst--Fall  
Out  
3. Dog Burst--Total  
Gamma Radiation  
4. Easy Burst--  
Cloud  
5. Easy Burst--  
Fall Out

6. Easy Burst - Total Gamma  
Radiation  
7. George Burst Cloud

EG&G-OUT-996B

card 2

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- 7. Dog Burst--Cloud Formation
- 8. Easy Burst--Cloud Formation
- 9. George Burst--Cloud Formation
- 10. Item Burst--Cloud Formation
- 11. Tumbler-Snapper Burst 1--Cloud Formation
- 12. Tumbler-Snapper Burst 2--Cloud Formation
- 13. Tumbler-Snapper Burst 3--Cloud Formation
- 14. Tumbler-Snapper Burst 4--Cloud Formation
- 15. Tumbler-Snapper Burst 5--Cloud Formation
- 16. Tumbler-Snapper Burst 6--Cloud Formation
- 17. Tumbler-Snapper Burst 7--Cloud Formation
- 18. Tumbler-Snapper Burst 8--Cloud Formation
- I. Edgerton, Germeshausen & Grier, Inc.

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MEMORANDUM, RADIOACTIVE CLOUD SIZE GREENHOUSE, BUSTER-JANGLE, TUMBLER-SNAPPER.

7 Aug. 1952 5p.

(96p. data deleted)

- 1. Atomic Cloud
  - 2. Buster Burst A-- Cloud Formation
  - 3. Buster Burst B-- Cloud Formation
  - 4. Buster Burst C-- Cloud Formation
  - 5. Buster Burst D-- Cloud Formation
  - 6. Buster Burst E-- Cloud Formation
- (Cont 'd on card 2)

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Edgerton, Germeshausen & Grier, Inc.  
GREENHOUSE CLOUD RISE DATA.  
September 5, 1951 8p

- 1. Greenhouse --Cloud Rise
- 2. George Burst --Cloud Rise
- 3. Easy Burst --Cloud Rise
- 4. Item Burst --Cloud Rise
- I. Edgerton, Germeshausen & Grier, Inc.
- II. J-8294

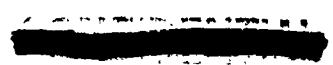
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March 3, 1952 85 pp

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Naval Research Lab.

- Greenhouse
- 1. Atomic Cloud --Sampling
- 2. Dog Burst-- Detection
- 3. Dog Burst-- Fission Products
- 4. Easy Burst-- Detection



cont'd on back



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JUN 16 1994

NRL-3963

- 5. Easy Burst--Fission Products
- 6. Fall Out
- 7. Fraction-of-Bomb
- 8. George Burst--Detection
- 9. Greenhouse--Cloud Travel
- 10. Greenhouse--Fission Products
- 11. Item Burst--Detection
- 12. Rainwater--Analysis

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Los Alamos Scientific Laboratory  
 Greenhouse Handbook of nuclear  
 explosions. Part I - Theory.  
 Volume III, Scientific director's  
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 Eniwetok, 1951.  
 Suydam, et al 17 March 1951 280p.

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 LASL  
 Suydam, Bergen R  
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 Langham, Wright H  
 Porzel, Francis B  
 Zadina, Edward J  
 1. Greenhouse--  
 Diagnostic  
 Experiments  
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Johns Hopkins University, Applied  
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Telemetering of the free air  
peak overpressure of an atomic  
explosion. Interim report.  
R. T. Ellis March 17, 1952  
219 pp

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Johns Hopkins  
Univ. Applied  
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Ellis, R T  
Foner, S N  
Higgins, R K  
Young, C G  
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Overpressure  
2. Easy Burst--  
Overpressure  
3. Overpressure

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NRL-4434

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Naval Research Laboratory  
ATLAS OF HIGH DISPERSION SPECTRA  
RECORDED AT GREENHOUSE. AUXILLARY  
REPORT ON SPECTROGRAPHIC MEASURE-  
MENTS, OPERATION GREENHOUSE. PRO-  
JECT NRLH - THERMAL RADIATION.  
Curcio, J A 1 Sept. 1954 50p.

1. Dog Burst--  
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2. Easy Burst--  
Spectroscopy  
3. Item Burst--  
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4. George Burst--  
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A handbook for the diagnostic  
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Buster and Jangle. (Abridged  
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William E. Ogle October 1, 1951  
145 pp

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Ogle, William E  
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1. "Alpha" Measure-  
ments  
2. Ball of Fire  
3. Beta Dinsit-  
tometer  
4. Blast  
5. Blast  
Measurements

J-3704

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- 24. Buster Burst D - Thermal Radiation
- 25. Buster Burst D - Transit Time
- 26. Buster Burst D - Yield
- 27. Buster Burst E - "Alpha" Measurements
- 28. Buster Burst E - Gamma Emission
- 29. Buster Burst E - Thermal Radiation
- 30. Buster Burst E - Transit Time
- 31. Buster Burst E - Yield
- 32. Diagnostic Experiments
- 33. Dog Burst - Thermal Radiation
- 34. Easy Burst - Thermal Radiation

J-8704

- 49. Thermal Radiation - Detection and Measurement
- 50. Underground Bursts

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J-8704

- 6. Buster - Instrumentation
- 7. Buster Burst A - "Alpha" Measurements
- 8. Buster Burst A - Gamma Emission
- 9. Buster Burst A - Thermal Radiation
- 10. Buster Burst A - Transit Time
- 11. Buster Burst A - Yield
- 12. Buster Burst B - "Alpha" Measurements
- 13. Buster Burst B - Gamma Emission
- 14. Buster Burst B - Thermal Radiation

J-8704

Page 2

~~CONFIDENTIAL~~

- 15. Buster Burst B - Transit Time
- 16. Buster Burst B - Yield
- 17. Buster Burst C - "Alpha" Measurements
- 18. Buster Burst C - Gamma Emission
- 19. Buster Burst C - Thermal Radiation
- 20. Buster Burst C - Transit Time
- 21. Buster Burst C - Yield
- 22. Buster Burst D - "Alpha" Measurements
- 23. Buster Burst D - Gamma Emission

J-8704

Page 3

Secret

- 35. Gamma Radiation - Detection and Measurement
- 36. George Burst - Thermal Radiation
- 37. Item Burst - Thermal Radiation
- 38. Jangle - Instrumentation
- 39. Jangle S Burst - "Alpha" Measurements
- 40. Jangle S Burst - Thermal Radiation
- 41. Jangle S Burst - Transit Time
- 42. Jangle S Burst - Yield
- 43. Jangle U Burst - "Alpha" Measurements
- 44. Jangle U Burst - Transit Time
- 45. Jangle U Burst - Yield
- 46. JATO
- 47. Neutrons Detection and Measurement
- 48. Soil - Equation of State

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EG & G-107L

WD-Principles & Testing

Edgerton, Germeshausen & Grier, Inc.  
Greenhouse pictorial report.  
26 September 1952 17 pp

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Edgerton, Germeshausen & Grier,

- EG & G Out-1008
- 1. Dog Burst--Ball Fire
- 2. Dog Burst--Photographic Analysis
- 3. Easy Burst--Ball of Fire
- 4. Easy Burst--Photographic Analysis

(cont'd on page 2)

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- 5. George Burst--Ball of Fire
- 6. George Burst--Photographic Analysis

EGG-1183-5096 (Rpt: C-FED)  
EG&G, Inc., Los Alamos, NM.  
RADIOMETRIC ANALYSIS OF THE BRIGHT MACH STEM ON EVENT GREENHOUSE/GEORGE.  
Nancy P. Gow and Jeffrey D. Colvin.  
Dec. 1978. 85p.

- CD: UNCLASS.
- I. Auth. (2)
- II. Corp. Auth.
- 1. Mach Stem
- 2. Fireball Radiance Profile
- 3. Greenhouse
- 4. George Burst

2/14/79

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N8

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Greenhouse Annex 2.4, Part I, Sec. 1 Final  
Los Alamos Scientific Lab., N. Mex.  
BIOLOGICAL EFFECTIVENESS OF INITIAL  
GAMMA RADIATION FROM AN ATOMIC WEAPON.  
Robert E. Carter, Wright H. Langham,  
Ernest C. Anderson, George W. Taylor,  
James T. Brennan, Payne S. Harris,  
Ernest A. Pinson, Theodoro T. Trujillo,  
Robert L. Schuch and Martha Benson,  
George V. LeRoy, Alvin C. Graves.  
August 1951. 51p.

Cd: UNCLASSIFIED  
(Rpt: SECRET)  
I. Authors (12)  
II. Corp. Auth.  
1. Easy Burst  
2. Dog Burst  
3. George Burst  
4. Mice--Effects  
of Radiation  
5. Gamma Radiation  
--Biological  
Effects

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N19

Greenhouse Annex 2.4 Part I, Sec. 2 (Final Draft) (Rpt: SECRET)  
Los Alamos Scientific Lab., N. Mex.  
ANNEX NUMBER 2.4, PART I. DOSIMETRY  
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FINAL DRAFT. [nd. 53p.

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2. George Burst  
3. Mice--Effects  
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N5

LAMD-1161

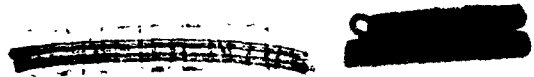
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Los Alamos Scientific Lab.  
G Spectra. (C plates).  
George Shot.  
August 17, 1951 200p.

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1. George Burst  
2. Greenhouse

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George. Finished calculations.  
August 1951 100p.

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1. George Burst  
2. Greenhouse

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Secret

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Resolution and check runs.  
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August 1951 200p.

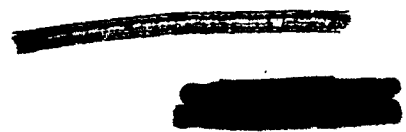
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1. Greenhouse  
2. George Burst

LAMD-1166

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Los Alamos Scientific Laboratory  
Calculations for G Spectra.  
n.d. 30p.

LAMD-1166  
LASL  
1. Greenhouse  
2. George Burst



LAMD-1186

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Los Alamos Scientific Laboratory  
California. University. Radiation  
Lab. Livermore Site.

The necessity for and value of  
continental tests.

Darol Froman August 28, 1953  
24p.

Auth. No. CX-827-14A

LAMD-1186

LASL.

Calif. U. Radiation  
Lab. Livermore Site

Froman, Darol F

1. Pacific Proving Grounds
2. Nevada Proving Grounds
3. Sandstone
4. Ranger  
(Cont'd on card 2)

LAMD-1186

card 2

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|--------------------|---------------------------------|------------|
| 5. Greenhouse      | 16. Easy Burst                  | 27. Buster |
| 6. Buster          | 17. Buster Burst A              | Burst B    |
| 7. Tumbler-Snapper | 18. Dog Burst                   | 28. Buster |
| 8. Upshot-Knothole | 19. <u>George Burst</u>         | Burst C    |
| 9. Ivy             | 20. Item Burst                  | 29. Buster |
| 10. Castle         | 21. Charlie Burst               | Burst D    |
| 11. X-Ray Burst    | 22. Ranger Burst A              | 30. Buster |
| 12. Yoke Burst     | 23. Ranger Burst B              | Burst E    |
| 13. Zebra Burst    | 24. Ranger Burst B <sub>2</sub> |            |
| 14. Able Burst     | 25. Ranger Burst E              | (Cont'd on |
| 15. Baker Burst    | 26. Ranger Burst F              | card 3)    |

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Naval Research Laboratory  
The diagnostic neutron  
experiments. Preliminary  
report of results, prepared  
in the field.  
E. H. Krause May 27, 1951  
32 p.

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Lab.  
Krause, E H  
1. Dinex  
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EG&G-OUT-1161

Edgerton, Germeshausen & Grier  
Greenhouse fireball data.  
Report No.1088.  
12 August 1953 14p.

Secret

EG&G-OUT-1161  
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Germeshausen &  
Grier  
EG&G-1088  
1. Dog Burst—  
Ball of Fire  
2. Easy Burst—  
Ball of Fire  
3. George Burst—  
Ball of Fire

4. Item Burst—Ball of Fire  
5. Greenhouse



Oct 10 1952



EG&G-1067

Edgerton, Germeshausen & Grier, Inc  
Rapatronic photography of the  
fireball.  
February 11, 1952 7 pp

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EG&G-1067  
Edgerton, Germes-  
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Inc.

- EG&G Out 756
- Buster
- Greenhouse
- Jangle
- 1. Ball of Fire--  
Photographic  
Analysis
- 2. Buster Burst  
B--Ball of  
Fire

EG&G-OUT-999

Edgerton, Germeshausen & Grier  
Memorandum, Greenhouse diameter-  
time characteristics. Eastman,  
Fastax and Rapatronic.  
19 August 1952 23p.

- 3. Buster Burst C - Ball of Fire
- 4. Buster Burst E - Ball of Fire
- 5. Dog Burst - Ball of Fire
- 6. Easy Burst - Ball of Fire
- 7. George Burst - Ball of Fire
- 8. Item Burst - Ball of Fire
- 9. Jangle S Burst - Ball of Fire

EG&G-OUT-999  
Edgerton,  
Germeshausen &  
Grier

- 1. Dog Burst--  
Ball of Fire
- 2. Easy Burst--  
Ball of Fire
- 3. George Burst--  
Ball of Fire

- 4. Item Burst--Ball of Fire
- 5. Greenhouse

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Edgerton, Germeshausen & Grier  
Ball-of-fire observations.  
23 Oct. 1952 128p.

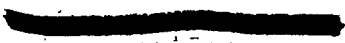
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EG&G-OUT-740-  
Vol. I  
Edgerton,  
Germeshausen &  
Grier

8. George Burst - Ball of Fire

- 1. High Speed  
Photography
- 2. Greenhouse
- 3. Eastman High  
Speed Camera
- 4. Fastax Camera

(Cont'd on card 2)



JUN 16 1994

EG&G-OUT-740-Vol. I

card 2

Secret

- 5. Rapatronc Camera
- 6. Dog Burst--Ball of Fire
- 7. Easy Burst--Ball of Fire
- 8. George Burst--Ball of Fire
- 9. Item Burst--Ball of Fire

EG&G-OUT-740-Vol. II

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Edgerton, Germeshausen & Grier  
 Ball-of-fire observations.  
 23 October 1952 127p.

EG&G-OUT-740-  
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Edgerton,  
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 Grier

- 4. Item Burst--Ball of Fire
- 5. Greenhouse

- 1. Easy Burst--  
Ball of Fire
- 2. Dog Burst--  
Ball of Fire
- 3. George Burst--  
Ball of Fire

EG&G-OUT-996B

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Edgerton, Germeshausen & Grier,  
 Inc.  
 MEMORANDUM, RADIOACTIVE CLOUD  
 SIZE GREENHOUSE, BUSTER-JANGLE,  
 TUMBLER-SNAPPER.

7 Aug. 1952 5p.

(96p. data deleted)

- 1. Atomic Cloud
  - 2. Buster Burst A--  
Cloud Formation
  - 3. Buster Burst B--  
Cloud Formation
  - 4. Buster Burst C--  
Cloud Formation
  - 5. Buster Burst D--  
Cloud Formation
  - 6. Buster Burst E--  
Cloud Formation
- (Cont'd on card 2)

56



JUN 16 1996

- 7. Dog Burst--Cloud Formation
- 8. Easy Burst--Cloud Formation
- 9. George Burst--Cloud Formation
- 10. Item Burst--Cloud Formation
- 11. Tumbler-Snapper Burst 1--Cloud Formation
- 12. Tumbler-Snapper Burst 2--Cloud Formation
- 13. Tumbler-Snapper Burst 3--Cloud Formation
- 14. Tumbler-Snapper Burst 4--Cloud Formation
- 15. Tumbler-Snapper Burst 5--Cloud Formation
- 16. Tumbler-Snapper Burst 6--Cloud Formation
- 17. Tumbler-Snapper Burst 7--Cloud Formation
- 18. Tumbler-Snapper Burst 8--Cloud Formation
- I. Edgerton, Germeshausen & Grier, Inc.

EG&G-OUT-739

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Edgerton, Germeshausen & Grier, Inc.  
GREENHOUSE CLOUD RISE DATA.

September 5, 1951 8p

- 1. Greenhouse  
--Cloud Rise
- 2. George Burst  
--Cloud Rise
- 3. Easy Burst  
--Cloud Rise
- 4. Item Burst  
--Cloud Rise
- I. Edgerton,  
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Greenhouse

- 1. Atomic Cloud  
--Sampling
- 2. Dog Burst--  
Detection
- 3. Dog Burst--  
Fission  
Products
- 4. Easy Burst--  
Detection

cont'd on back

JUN 16 1994

NRL-3963

- 5. Easy Burst--Fission Products
- 6. Fall Out
- 7. Fraction-of-Bomb
- 8. George Burst--Detection
- 9. Greenhouse--Cloud Travel
- 10. Greenhouse--Fission Products
- 11. Item Burst--Detection
- 12. Rainwater--Analysis

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Analysis  
2. Dog Burst--  
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Analysis  
3. Easy Burst--  
Photographic  
Analysis

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Photographic Analysis  
5. Greenhouse--Photo-  
graphic Analysis

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of Fire  
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graphic Analysis  
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of Fire  
4. Easy Burst--Phot-  
ographic Analysis

(cont'd on card 2)

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JUN 16 1994

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- 5. George Burst--  
Ball of Fire
- 6. George Burst--  
Photographic  
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- 4. Airedale
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  - I. Curcio, J A
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Title  
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1. "Alpha" Measure-  
ments  
2. Ball of Fire  
3. Beta Dinsit-  
tometer  
4. Blast  
5. Blast  
Measurements

J-8704

Page 2

- 15. Buster Burst B - Transit Time
- 16. Buster Burst B - Yield
- 17. Buster Burst C - "Alpha" Measurements
- 18. Buster Burst C - Gamma Emission
- 19. Buster Burst C - Thermal Radiation
- 20. Buster Burst C - Transit Time
- 21. Buster Burst C - Yield
- 22. Buster Burst D - "Alpha" Measurements
- 23. Buster Burst D - Gamma Emission

J-8704

Page 3

Secret

- 35. Gamma Radiation - Detection and Measurement
- 36. George Burst - Thermal Radiation
- 37. Item Burst - Thermal Radiation
- 38. Jangle - Instrumentation
- 39. Jangle S Burst - "Alpha" Measurements
- 40. Jangle S Burst - Thermal Radiation
- 41. Jangle S Burst - Transit Time
- 42. Jangle S Burst - Yield
- 43. Jangle U Burst - "Alpha" Measurements
- 44. Jangle U Burst - Transit Time
- 45. Jangle U Burst - Yield
- 46. JATO
- 47. Neutron Detection and Measurement
- 48. Soil - Equation of State

J-8704

- 6. Buster - Instrumentation  
Buster Burst A - "Alpha"  
Measurements
- 8. Buster Burst A - Gamma  
Emission
- 9. Buster Burst A - Thermal  
Radiation
- 10. Buster Burst A - Transit  
Time
- 11. Buster Burst A - Yield
- 12. Buster Burst B - "Alpha"  
Measurements
- 13. Buster Burst B - Gamma  
Emission
- 14. Buster Burst B - Thermal  
Radiation

J-8704

- 24. Buster Burst D - Thermal  
Radiation
- 25. Buster Burst D - Transit Time
- 26. Buster Burst D - Yield
- 27. Buster Burst E - "Alpha"  
Measurements
- 28. Buster Burst E - Gamma  
Emission
- 29. Buster Burst E - Thermal  
Radiation
- 30. Buster Burst E - Transit Time
- 31. Buster Burst E - Yield
- 32. Diagnostic Experiments
- 33. Dog Burst - Thermal Radiation
- 34. Easy Burst - Thermal Radiation

J-8704

- 49. Thermal Radiation - Detection  
and Measurement
- 50. Underground Bursts

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Grier

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1. High Speed Photography
2. Greenhouse
3. Eastman High Speed Camera
4. pastat Camera

(Cont'd on card 2)

EG&G-OUT-740-Vol. I

card 2

Secret

5. Rapatronic Camera
6. Dog Burst--Ball of Fire
7. Easy Burst--Ball of Fire
8. George Burst--Ball of Fire
9. Item Burst--Ball of Fire

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5. Greenhouse

1. Dog Burst--  
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2. Easy Burst--  
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3. George Burst--  
Ball of Fire

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SIZE GREENHOUSE, BUSTER-JANGLE,  
TUMBLER-SNAPPER.

7 Aug. 1952 5p.

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  2. Buster Burst A--  
Cloud Formation
  3. Buster Burst B--  
Cloud Formation
  4. Buster Burst C--  
Cloud Formation
  5. Buster Burst D--  
Cloud Formation
  6. Buster Burst E--  
Cloud Formation
- (Cont 'd on card 2)

EG&G-OUT-996B

card 2

SECRET

7. Dog Burst--Cloud Formation
8. Easy Burst--Cloud Formation
9. George Burst--Cloud Formation
10. Item Burst--Cloud Formation
11. Tumbler-Snapper Burst 1--Cloud Formation
12. Tumbler-Snapper Burst 2--Cloud Formation
13. Tumbler-Snapper Burst 3--Cloud Formation
14. Tumbler-Snapper Burst 4--Cloud Formation
15. Tumbler-Snapper Burst 5--Cloud Formation
16. Tumbler-Snapper Burst 6--Cloud Formation
17. Tumbler-Snapper Burst 7--Cloud Formation
18. Tumbler-Snapper Burst 8--Cloud Formation

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--Cloud Rise
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Greenhouse

- 1. Atomic Cloud  
--Sampling
- 2. Dog Burst--  
Detection
- 3. Dog Burst--  
Fission  
Products
- 4. Easy Burst--  
Detection

5 Easy Burst - Fission Products

6. Fall Out

7 Fraction of Bomb

8. George Burst Detection

9. Greenhouse Cloud Trace

10. Greenhouse Fission Products

11. Item Burst - Detection

12 Rainwater - Analysis

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William E. Ogle October 1, 1951  
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- J-8704  
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Ogle, William E  
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Jangle
1. "Alpha" Measure-  
ments
  2. Ball of Fire
  3. Beta Dinsit-  
tometer
  4. Blast
  5. Blast  
Measurements

J-8704

Page 2

15. Buster Hurst B - Transit  
Time
16. Buster Hurst B - Yield
17. Buster Hurst C - "Alpha"  
Measurements
18. Buster Hurst C - Gamma  
Emission
19. Buster Hurst C - Thermal  
Radiation
20. Buster Hurst C - Transit  
Time
21. Buster Hurst C - Yield
22. Buster Hurst D - "Alpha"  
Measurements
2. Buster Hurst D - Gamma  
Emission

JUN 16 195

~~CONFIDENTIAL~~

- 6. Buster - Instrumentation  
Buster Burst A - "Alpha"  
Measurements
- 8. Buster Burst A - Gamma  
Emission
- 9. Buster Burst A - Thermal  
Radiation
- 10. Buster Burst A - Transit  
Time
- 11. Buster Burst A - Yield
- 12. Buster Burst B - "Alpha"  
Measurements
- 13. Buster Burst B - Gamma  
Emission
- 14. Buster Burst B - Thermal  
Radiation

- 24. Buster Burst D - Thermal  
Radiation
- 25. Buster Burst D - Transit Time
- 26. Buster Burst D - Yield
- 27. Buster Burst E - "Alpha"  
Measurements
- 28. Buster Burst E - Gamma  
Emission
- 29. Buster Burst E - Thermal  
Radiation
- 30. Buster Burst E - Transit Time
- 31. Buster Burst E - Yield
- 32. Diagnostic Experiments
- 33. Dog Burst - Thermal Radiation
- 34. Easy Burst - Thermal Radiation

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- 35. Gamma Radiation - Detection and  
Measurement
- 36. George Burst - Thermal Radiation
- 37. Item Burst - Thermal Radiation
- 38. Jangle - Instrumentation
- 39. Jangle S Burst - "Alpha" Measurements
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- 41. Jangle S Burst - Transit Time
- 42. Jangle S Burst - Yield
- 43. Jangle U Burst - "Alpha" Measurements
- 44. Jangle U Burst - Transit Time
- 45. Jangle U Burst - Yield
- 46. JATO
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- 48. Soil - Equation of State
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- 2. Mike Burst-Photography
- 3. King Burst-Photography
- 4. Yankee Burst--Photography
- 5. Union Burst--Photography
- 6. Romeo Burst--Photography
- 7. Bravo Burst--Photography

JUN 16 1994

(Cont'd on card 2)

EG&G-OUT-1653

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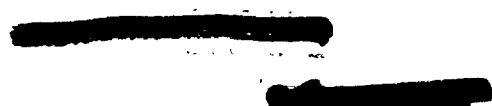
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- 8. Echo Burst--Photography
- 9. Nectar Burst--Photography
- 10. Koon Burst--Photography
- 11. Ivy
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1. Ivy

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Notes on staff meeting, 21  
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Ogle, William E  
Ivy

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1. Ivy  
I. Corporate Author  
II. J-10265  
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Blast measurements on King  
Shot - Notes of a discussion  
between Sandia and J-113, 6  
March 1952.  
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Force 132  
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1. Ivy  
2. King Burst  
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1. Ivy

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  - 3. Sandstone
  - 4. Stockpile
  - 5. Ranger
  - 6. Greenhouse
  - 7. Buster-Jang
  - 8. Tumbler-Str
  - 9. Ivy

5-28-91

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N13

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Mostly about thermonuclear testing.  
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William E. Ogle. 11 July 1951 3pp

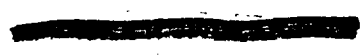
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Darol Froman August 28, 1953  
24p.

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Lab. Livermore Site  
Froman, Darol F  
1. Pacific Proving  
Grounds  
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Grounds  
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(Cont'd on card 2)

LAMD-1186

card 2

Secret

JUN 16 1994

- |                    |                     |            |
|--------------------|---------------------|------------|
| 5. Greenhouse      | 16. Easy Burst      | 27. Buster |
| 6. Buster          | 17. Buster Burst A  | Burst B    |
| 7. Tumbler-Snapper | 18. Dog Burst       | 28. Buster |
| 8. Upshot-Knothole | 19. George Burst    | Burst C    |
| 9. Ivy             | 20. Item Burst      | 29. Buster |
| 10. Castle         | 21. Charlie Burst   | Burst D    |
| 11. X-Ray Burst    | 22. Ranger Burst A  | 30. Buster |
| 12. Yoke Burst     | 23. Ranger Burst B  | Burst E    |
| 13. Zebra Burst    | 24. Ranger Burst B2 |            |
| 14. Able Burst     | 25. Ranger Burst E  | (Cont'd on |
| 15. Baker Burst    | 26. Ranger Burst F  | card 3)    |

LAMD-1186

card 3

Secret

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|-----------------------------|----------------------------|
| 31. Tumbler-Snapper Burst 1 | 43. Upshot-Knothole Clixax |
| 32. Tumbler-Snapper Burst 2 | 44. Upshot-Knothole Dixie  |
| 33. Tumbler-Snapper Burst 3 | 45. Upshot-Knothole Grable |
| 34. Tumbler-Snapper Burst 4 | 46. Upshot-Knothole Harry  |
| 35. Tumbler-Snapper Burst 5 | 47. Upshot-Knothole Encore |
| 36. Tumbler-Snapper Burst 6 | 48. Upshot-Knothole Nancy  |
| 37. Tumbler-Snapper Burst 7 | 49. Upshot-Knothole Ray    |
| 38. Tumbler-Snapper Burst 8 | 50. Upshot-Knothole Ruth   |
| 39. Mike Burst              | 51. Upshot-Knothole Simon  |
| 40. King Burst              | 52. Mark III Weapon        |
| 41. Upshot-Knothole Annie   | (Cont'd on card 4)         |
| 42. Upshot-Knothole Badger  |                            |

LAMD-1186

card 8

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Nuclear Defense Lab., Edgewood Arsenal,

Md.  
GAMMA DOSE RATE COMPILATION (U).  
W.E. Loewe, J.W. Mandler, T.G.  
Stinchcomb and W.E. Zagotta.  
June 1966. 251p.

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- II. Corp. Auth.
- 1. Gamma Radiation
- 2. Greenhouse
- 3. Buster-Jangle
- 4. Tumbler
- 5. Ivy
- 6. Castle
- 7. Redwing
- 8. Plumbbob
- 9. Hardtack
- 10. Sun Beam
- 11. Fish Bowl

9-12-66

N17

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JUN 16 1954

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Naval Research  
Lab.  
Beach, L A  
Bergstrahl, T A  
Krause, E H  
Strain, C V  
RD-139

Ivy  
Snapper  
1. Gamma Radiation  
--Detection &  
Measurement

2 Scintillation Detectors  
3 Snapper - Instrumentation

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Naval Research Laboratory  
Ivy diagnostic experiments.  
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E.H. Krause June 1953 160p.

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1. Ivy  
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65p.

- 1. Greenhouse
- 2. Tumbler-Snapper
- 3. Ivy
- 4. Castle
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- 6. Atomic Explosions  
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- I. Personal Author
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Michael J.
1. Ivy
  2. Mike Burst--  
Radioautography
  3. King Burst--  
Radioauto-  
graphy

(Cont'd on card  
2)

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JUN 16 1994

CELRL-105

2

Secret

- 4. Mike Burst  
--Sample  
Collection
- 5. King Burst--  
Sample Collect-  
ion
- 6. Nuclear  
Particles

CRLR-112

Secret

Chemical & Radiological Labs.  
Fall-out studies on Eniwetok  
Atoll. Special report.  
Bouton and Wilsey 2 March 1953  
39 pp

Wilsey,  
Edward F.

- CRLR-112  
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cal Labs.  
Bouton, Edward F
- 1. Eniwetok
  - 2. Mike Burst--  
Fall Out
  - 3. King Burst--  
Fall Out
  - 4. Ivy

EG&G-B-1867 (Report: SECRET)

Edgerton, Germeshausen & Grier, Inc.,  
Boston  
NUCLEAR DETONATION SUMMARY.  
December 29, 1958. 49p.

(This report supersedes Report No. B-  
1737)

- 1. Trinity
- 2. Crossroads
- 3. Sandstone
- 4. Ranger
- 5. Greenhouse
- 6. Buster
- 7. Jangle
- 8. Tumbler-Snapper
- 9. Ivy
- 10. Upshot-Knothole
- 11. Castle
- 12. Teapot
- 13. Wigwam
- 14. 56 Project NTS

(Cont'd on card 2)

N23



JUN 16 1994

Edgerton, Germeshausen & Grier, Inc.,  
Boston

- 15. Redwing
- 16. Plumbbob
- 17. 57 Project NTS
- 18. 58 Project NTS
- 19. Hardtack
- 20. Hardtack-Phase II
  - I. Corp. Author
  - II. B-1867

N23

EG&G-OUT-765

*J. Ivy*  
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Edgerton, Germeshausen & Grier,  
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Progress reports for the months  
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1951 and January 1952 through  
June 1952.

1951 and 1952 44p.

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- EG&G-OUT-765
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- EG&G-OUT-766
- EG&G-OUT-767
- EG&G-OUT-768
- EG&G-OUT-769
- EG&G-OUT-770
- EG&G-OUT-771
- EG&G-OUT-772
- EG&G-OUT-773

EG&G-OUT-765

card 2

Secret

- EG&G-OUT-774
- EG&G-OUT-775
- EG&G-OUT-776
- 1. Buster-Jangle
- 2. Tumble-Snapper
- 3. Ivy

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EG&G-OUT-777

~~CONFIDENTIAL~~ | Ivy | DDE  
~~CONFIDENTIAL~~ Secret

JUN 16 1994

Edgerton, Germeshausen & Grier, Inc.  
Progress reports for the month  
of July 1952 through December  
1952 and January 1953 through  
June 1953.  
1952 and 1953 43p.

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EG&G-OUT-781  
EG&G-OUT-782  
EG&G-OUT-783  
EG&G-OUT-784  
EG&G-OUT-785  
EG&G-OUT-786

(Cont'd on card 2)

EG&G-OUT-777

card 2

Secret

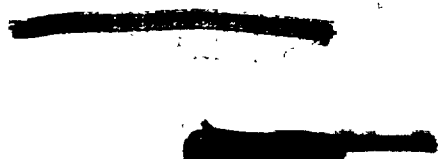
- EG&G-OUT-787
- EG&G-OUT-788
- 1. Ivy
- 2. Upshot
- 3. Castle

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Shot. Volume 2 of 2 volumes.  
24 Febuary 1954 87p.

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- 1. Mike Burst--  
Yield
- 2. Mike Burst--  
Ball of Fire
- 3. Ivy\_\_



NYO-4555

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JUN 16 1994

Weather Bureau

A meteorological analysis of the transport of debris from Operation Ivy.

L.F. Hubert, et al Oct. 30, 1953  
155p.

NYO-4555

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Hubert, Lester F  
Machta, Lester  
List, Robert J

- 1. Ivy
- 2. Mike Burst--  
Fall Out
- 3. King Burst--  
Fall Out

SCEL-C-448

Secret

Signal Corps Engineering Labs.

Radiological assays with radiac set AN/MDQ-1(XE-3) during operation Ivy.

Philip Shapiro 16 Nov. 1953 69p.

SCEL-C-448

Signal Corps  
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Shapiro, Philip  
Tech Memo-M-1546

SCEL ID3HS-1287

- 1. Ivy
- 2. Radiac
- 3. Alpha Radiation
- 4. Beta Radiation
- 5. Gamma Radiation

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Secret

Tracerlab, Inc.

Western Division progress reports for the period Nov. 1952 through January, 1953.

n. d. 46 pp

TL-LA-5

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TB-13207

- 1. Ivy
- 2. King Burst
- 3. Mike Burst

~~SECRET~~

JUN 26 1994

TM-86

WD-Family

Secret

LASL. Theoretical Megaton Group  
Minutes of the forty-fourth  
meeting, December 5, 1952.  
Frank C. Hoyt December 5, 1952  
5 pp

TM-86  
LASL. Theoretical  
Megaton Group  
Hoyt, Frank C  
1. Ostrich Program  
2. TX-14  
3. Mike  
4. Mixmaster  
5. Ivy  
6. Castle  
7. Thermomuclear  
Gadgets  
8. Buzzard

UCRL-4034 (Rev.) (Report: SECRET) Card: UNCLASSIFIED

California. Univ., Livermore. Radiation  
Laboratory.  
IVY ELECTROMAGNETIC DETECTION  
EXPERIMENT. REPORT TO THE  
SCIENTIFIC DIRECTOR, OPERATION  
IVY, PROJECT 9. Louis Wouters.  
December 29, 1952. 11p.

- 1. Ivy
- 2. Electromagnetic  
Waves--Detection  
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- I. Personal Author
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N4

UKP-41

Secret

Wright Air Development Center  
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aircraft in flight. Preliminary  
report. Operation Upshot-Knot-  
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UKP-41  
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--Blast Effects  
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Encore  
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Project 5.3

**SECRET**

UPSHOT HANDBOOK

~~CONFIDENTIAL~~ **TOP SECRET**

JUN 26 1953

Los Alamos Scientific Laboratory  
A handbook for the diagnostic  
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Programs 10-20.  
L.B. Seely ed 1 Feb. 1953 48p.  
Auth. No. XXVIII-1416

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Biggers, Wendell A  
Dowan, George A  
England, Robert D  
Felt, Gaelen L  
Malik, John S  
Ogle, William E  
Partridge, Ralph E  
Phillips, Donald D  
Seacord, Daniel F  
Smith, Newell H

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UPSHOT HANDBOOK

card 2

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UPSHOT HANDBOOK

card 3

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~~CONFIDENTIAL~~

USNRDL-408

Secret

JUN 16 1953

Naval Radiological Defense Lab.  
The nature of individual radio-  
active particles. II. Fall-out  
particles from M-Shot. Operation  
Ivy.  
C.E. Adams 1 July 1953 2lp.

USNRDL-408  
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Adams, C E  
1. Fall Out  
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Fall Out

WT-9002 (Report: SECRET) Cd: UNCLASSIFIED

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GROUND-MOTION STUDIES ON OPERATIONS IVY  
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Perret, W R Feb., 1955 60p.

- 1. Ground Motion
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Cambridge Corporation  
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n. d. 198 pp

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1. Ivy--  
Administrati  
& Organiz-  
ation

~~CONFIDENTIAL~~

J-13659

~~CONFIDENTIAL~~ Restricted

JUN 26 1952

Joint Task Force 132  
Administrative plan No. 1, Operation  
Ivy, with annexes.  
Aug. 15, 1952

23 pp

J-13659  
Joint Task Force  
132  
1. Ivy--Adminis-  
tration &  
Organization

IVY - Communications

Secret

Joint Task Force 132  
Operation Ivy, Communications.  
Technical report, 1952.  
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IVY - Communication  
Joint Task Force  
132  
1. Ivy--Adminis-  
tration and  
Organization

J-14183

WD-All

Secret

Joint Task Force 132.1  
Operation plan No. 1-52 248 pp

J-14183  
Joint Task Force  
132.1  
Burriss, Stanley W  
1. Ivy--Administrative  
General  
2. Ivy--Communications

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JUN 16 1994

J-15207

WD-Family

Secret

Joint Task Force 132  
Report of the Commander, Task  
Group 132.1 on Operation Ivy.  
Part III - General activity of  
TG 132.1.  
n. d. 123 pp

J-15207  
Joint Task Force 132  
1. Ivy--Administration  
and Orgnaization  
2. King Burst--  
Administration &  
Organization  
3. Mike Burst--  
Administration &  
Organization

JTG-132.4-1

Secret

Air Force. Task Gorup 132.4  
Final command and statistical  
summary Task Group 132.4  
participation, Operation Ivy.  
n. d. 76 pp

JTG-132.4-1  
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Group 132.4  
1. Ivy--Administratic  
& Organization

JTG-132.4-2

Admin.-Genl.

Secret

Air Force. Task Group 132.4  
Final report, Task Group 132.4,  
Operation Ivy.  
n. d. 91 pp

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JUN 16 1994

Joint Task Force 132  
Control Book 3, June 1952.  
P. W. Clarkson n. d. 32 pp

JTF-132 Book 3  
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132  
Clarkson, P W  
1. Ivy--Administrat-  
ion & Organization

J-15206 WD-Family

Secret

Joint Task Force 132  
Report of the Commander, Task  
Group 132.1 on Operation Ivy.  
Part II.- Summary of experimental  
n. d. 17 pp

*Programs*

- J-15206  
Joint Task Force  
132
- 1. Ivy--"Alpha"  
Measurement
- 2. Ivy--Diagnost  
Experiments
- 3. Ivy--Effects  
Experiments
- 4. Ivy--Blast
- 5. Ivy--Thermal  
Radiation

(Cont'd on card 2)

J-15206 WD-Family <sup>3</sup>

Secret

- 6. Ivy--Transit Time
- 7. King--"Alpha"  
Measurement
- 8. King Burst --Diagnostic  
Experiments
- 9. King Burst --Diagnosti  
Experiments
- 10. King Burst-- Blast
- 11. King Burst --Thermal  
Radiation
- 12. King Burst--Transit  
Time
- 13. King Burst--"Alpha"  
Measurement

(cont'd on card 3)

~~CONFIDENTIAL~~

JUN 6 1952  
J-15206

WD-Family

Secret

14. Mike Burst--Diagnost  
Experiments
15. Mike Burst--Effects  
Experiments
16. Mike Burst--Blast
17. Mike Burst-- Thermal  
Radiation

EG & G-1082

Edgerton, Germeshausen &  
Grier, Inc.  
Ivy fireball diameter-time  
characteristics.  
26 Feb. 1953 28 pp

Secret

- EG&G-1082  
Edgerton,  
Germeshausen  
& Grier, Inc.  
EG&G OUT-1086
1. Ball of Fire  
--Photographic  
Analysis
  2. King Burst  
--Ball of  
fire

(Cont'd on card 2)

EG&G-1082

2

Secret

3. Mike Burst  
--Ball of  
Fire
4. King Burst  
--Yield
5. Mike Burst--Yield
6. Ivy--Ball  
of Fire
7. Ivy--Yield

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~~SECRET~~

EG&G-1083

Secret

JUN 16 1994

Edgerton, Germeshausen & Grier,  
i Inc.  
IVY - Project 3.1. Fireball  
diameter - time characteristics.  
Measurement and calculation sheets.  
Feb. 26, 1953 58 pp

EG&G-1083  
Edgerton,  
Germeshausen  
& Grier, Inc.  
EG&G OUT-1087  
1. Ball of Fire  
--Photographic  
Analysis  
2. King Burst--  
Ball of Fire

(cont'd on card 2)

EG&G-1083

2

Secret

- 3. King Burst  
--Yield
- 4. Mike Burst--  
Ball of Fire
- 5. Mike Burst--  
Yield
- 6. Ivy--Yield
- 7. Ivy--Ball of  
fire

TM-82

WD-Family

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LASL. Theoretical Megaton Group  
Minutes of the forty-second  
meeting, November 14, 1952.  
R. Landshoff n. d. 4 pp  
2 photos

TM-82  
LASL. Theoretical  
Megaton Group  
Landshoff, Rolf

- 1. Ivy--Ball of Fire
- 2. Ivy--Radiochemistry
- 3. Ivy--Yield
- 4. Upshot
- 5. Castle
- 6. Railroad
- 7. Thermomuclear  
Gadgets

J-15206

WD-Family

Secret

JUN 16 1954

Joint Task Force 132  
Report of the Commander, Task  
Group 132.1 on Operation Ivy.  
Part II - Summary of experi-  
mental programs.  
n. d. 17 pp

(cont'd on card 2)

- J-15206
- Joint Task Force 132
- 1. Ivy--"Alpha" Measurements
- 2. Ivy--Diagnostic Experiments
- 3. Ivy--Effects Experiments
- 4. Ivy--Blast
- 5. Ivy--Thermal Radiation

J-15206

WD-Family

Secret

(cont'd on card 2)

- 6. Ivy--Transit Time
- 7. King--"Alpha" Measurement
- 8. King Burst --Diagnostic Experiments
- 9. King Burst --Diagnostic Experiments
- 10. King Burst-- Blast
- 11. King Burst --Thermal Radiation
- 12. King Burst--Transit Time
- 13. Mike Burst--"Alpha" Measurement

J-15206

WD-Family

Secret

- 14. Mike Burst--Diagnost Experiments
- 15. Mike Burst--Effects Experiments
- 16. Mike Burst--Blast
- 17. Mike Burst-- Thermal Radiation

JR-9671

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LASL. J-Division  
Present status of Ivy experimental  
program.  
W. E. Ogle 30 January 1952 14 pp

Secret

JUN 16 1952

JR9671  
LASL. J-Division  
Ogle, William E  
Ivy  
1. Blast  
Measurements  
2. Ivy--Blast  
3. Ivy--Diagnos-  
tic Experi-  
ments  
4. Ivy--Effects  
Experiments  
5. Ivy--Instru-  
mentation

LAMD-1035

LASL, Pogo  
Notes on staff meeting 29  
December 1951. Blast measure-  
ments for Ivy and Snapper.  
W. E. Ogle n. d. 15 pp

Secret

LAMD-1035  
LASL, Pogo  
Ogle, William E  
J-9659  
Ivy  
Snapper  
1. Blast  
Measurements  
2. Ivy--Blast  
3. Ivy--Instru-  
mentation  
4. Ivy--Photo-  
graphic  
analysis

J-14183

WD-All

Joint Task Force 132.1  
Operation plan No. 1-52 248 pp

Secret

J-14183  
Joint Task Force  
132.1  
Burriss, Stanley W  
1. Ivy--Administrati  
General  
2. Ivy--Communicator

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

JR-9671

~~CONFIDENTIAL~~

6. Ivy--Photographic Analysis
7. Ivy--Sample Collection
8. Ivy--Scintillation "Alpha"
9. Ivy--Thermal Radiation
10. Ivy--Total Gamma Radiation
11. King Burst
12. Mike Burst
13. Neutrons--Detection & Measurement
14. Thermonuclear Reactions--Detection & Measurement

LAMD-1035

5. Snapper--Blast
6. Snapper--Instrumentation
7. Water Waves
8. Ivy--Effects Experiments
9. Snapper--Effects Experiments

LAMD-1014

Secret

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~~CONFIDENTIAL~~

IVY-HISTORY

~~CONFIDENTIAL~~ secret

JUN 16 1992

Joint Task Force 132  
History of Operation Ivy,  
1951 - 1952.  
Moore Jr. and Bechanan  
n.d. 328p.

IVY-History  
Joint Task Force  
132  
Moore, Frank E Jr.  
Bechanan, H  
Gordon  
1. Ivy  
2. King Burst  
3. Mike Burst

J-15206

WD-Family

Secret

Joint Task Force 132  
Report of the Commander, Task  
Group 132.1 on Operation Ivy.  
Part II - Summary of experimental  
programs.  
n. d. 17 pp

(Cont'd on card 2)

J-15206  
Joint Task Force  
132.

1. Ivy--"Alpha"  
Measurement
2. Ivy--Diagnostic  
Experiments
3. Ivy--Effects  
Experiments
4. Ivy--Blast
5. Ivy--Thermal  
Radiation

J-15206

WD-Family

Secret

(cont'd on card 2)

6. Ivy--Transit Time
7. King--"Alpha"  
Measurement
8. King Burst --Diagnostic  
Experiments
9. King Burst --Diagnostic  
Experiments
10. King Burst-- Blast
11. King Burst --Thermal  
Radiation
12. King Burst--Transit  
Time
13. Mike Burst--"Alpha"  
Measurement

JUN 16 1952

J-15206

WD-Family

Secret

- 14. Mike Burst--Diagnost Experiments
- 15. Mike Burst--Effects Experiments
- 16. Mike Burst--Blast
- 17. Mike Burst-- Thermal Radiation

JR-9671

LASL. J-Division  
 Present status of Ivy experimental program.  
 W. E. Ogle 30 January 1952 14 pp

Secret

- JR-9671  
 LASL. J-Division  
 Ogle, William E  
 Ivy
- 1. Blast Measurements
  - 2. Ivy--Blast
  - 3. Ivy--Diagnostic Experiments
  - 4. Ivy--Effects Experiments
  - 5. Ivy--Instrumentation

- 6 Ivy - Photographic Analyses
- 7 " - Sample Collection
- 8 " - Scintillation "Alpha"
- 9 " - Thermal Radiation
- 10 " - Total Gamma Radiation
- 11 ~~Mike~~ King Burst
- 12 ~~Mike~~ Mike Burst
- 13 Neutrons - Detection + Measurement
- 14 Thermonuclear Reactions - Detection + Measurement

NRL-4004

Naval Research Laboratory  
 Progress report, May 16, 1952.  
 E. H. Krause n. d. 14 pp

Secret

- NRL-4004  
 Naval Research Lab.  
 Krause, E H
- 1. Ivy--Diagnostic Experiments
  - 2. Snapper-- Diagnostic Experiments



NRL-LA-3

~~CONFIDENTIAL~~  
WD-Family

Secret

JUN 16 1994

Naval Research Laboratory  
(IvyData.)

E.H. Krause December 19, 1957  
17 pp

NRL-LA-3

Naval Research Lab.

Krause, E H

1. Ganex
2. Tenex
3. Mike Burst--  
Diagnostic Experi-  
ments
4. Neutrons--Detection  
& Measurements
5. Thermonuclear  
Diagnostic Experi-  
ments

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NRL-LA-3

2  
WD-Family

Secret

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NRL-RD-234

Naval Research Laboratory  
Ivy diagnostic experiments.  
Mike - Volume I. (Working  
Paper).

n.d. 276p.

Secret

NRL-RD-234

Naval Research Lab.

1. Ivy--Diagnostic  
Experiments
2. Mike Burst--  
Diagnostic  
Experiments
3. Mike Burst--"Alph  
Measurements
4. Mike Burst--  
Gamma Reactions

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J-15206

WD-Family

Secret

Joint Task Force 132  
Report of the Commander, Task  
Group 132.1 on Operation Ivy.  
Part II - Summary of experi-  
mental programs.  
n. d. 17 pp

(cont'd on card 2)

- J-15206
- Joint Task Force 132
- 1. Ivy--"Alpha" Measurements
- 2. Ivy--Diagnostic Experiments
- 3. Ivy--Effects Experiments
- 4. Ivy--Blast
- 5. Ivy--Thermal Radiation

J-15206

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WD-Family

Secret

JUN 16 1994

- 6. Ivy--Transit Time
- 7. King--"Alpha" Measurement
- 8. King Burst --Diagnostic Experiments
- 9. King Burst --Diagnostic Experiments
- 10. King Burst-- Blast
- 11. King Burst --Thermal Radiation
- 12. King Burst--Transit Time
- 13. Mike Burst--"Alpha" Measurement

(cont'd on card 2)

J-15206

WD-Family

Secret

- 14. Mike Burst--Diagnostic Experiments
- 15. Mike Burst--Effects Experiments
- 16. Mike Burst--Blast
- 17. Mike Burst-- Thermal Radiation

JR-9671

LASL. J-Division  
 Present status of Ivy experimental program.  
 W. E. Ogle 30 January 1952 14 pp

Secret

- JR-9671  
 LASL. J-Division  
 Ogle, William E  
 Ivy
- 1. Blast Measurements
  - 2. Ivy--Blast
  - 3. Ivy--Diagnostic Experiments
  - 4. Ivy--Effects Experiments
  - 5. Ivy--Instrumentation

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LAMD-1035

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[REDACTED]

- 5. Snapper--Blast
- 6. Snapper--Instrumentation
- 7. Water Waves
- 8. Ivy--Effects Experiments
- 9. Snapper--Effects Experiments

JUN 16 1951

JR-9671

- 6. Ivy--Photographic Analysis
- 7. Ivy--Sample Collection
- 8. Ivy--Scintillation "Alpha"
- 9. Ivy--Thermal Radiation
- 10. Ivy--Total Gamma Radiation
- 11. King Burst
- 12. Mike Burst
- 13. Neutrons--Detection & Measurement
- 14. Thermonuclear Reactions--Detection & Measurement

LMD-769

LASL. J-113  
Mostly about thermonuclear testing.  
Notes on J-113 meeting.  
William E. Ogle. 11 July 1951 3pp

Secret

2. Ivy - Instrumentation

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JR-9671

~~CONFIDENTIAL~~  
CONFIDENTIAL

JUN 16 1994

- 6. Ivy--Photographic Analysis
- 7. Ivy--Sample Collection
- 8. Ivy--Scintillation "Alpha"
- 9. Ivy--Thermal Radiation
- 10. Ivy--Total Gamma Radiation
- 11. King Burst
- 12. Mike Burst
- 13. Neutrons--Detection & Measurement
- 14. Thermonuclear Reactions--Detection & Measurement

LAMD-1035

LASL, Pogo  
 Notes on staff meeting 29  
 December 1951. Blast measurements for Ivy and Snapper.  
 W. E. Ogle n. d. 15 pp

Secret

LAMD-1035  
 LASL, Pogo  
 Ogle, William E  
 J-9659  
 Ivy  
 Snapper  
 1. Blast Measurements  
 2. Ivy--Blast  
 3. Ivy--Instrumentation  
 4. Ivy--Photographic Analysis

JR-9671

LASL, J-Division  
 Present status of Ivy experimental program.  
 W. E. Ogle 30 January 1952 14 pp

Secret

JR-9671  
 LASL, J-Division  
 Ogle, William E  
 Ivy  
 1. Blast Measurements  
 2. Ivy--Blast  
 3. Ivy--Diagnostic Experiments  
 4. Ivy--Effects Experiments  
 5. Ivy--Instrumentation

LAMD-1010

~~CONFIDENTIAL~~

Secret

JUN 16 1994

LASL. Pogo  
Notes on Pogo Staff meeting, 19  
December 1951.  
n. d. 8 pp

1. Ivy--Instru-  
mentation
2. Television
3. Thermo-nuclear  
Reactors--  
Detection &  
Measurement

LAMD-1014

Secret

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LAMD-1020

LASL, Pogo  
Notes on Pogo staff meeting,  
12 January 1952.  
Leslie B. Seely n. d. 10 pp

Secret

1. Ball of Fire--  
Photographic  
Analysis
2. Blast Measure-  
ments
3. Ivy--Instru-  
mentation
4. Snapper--  
Instrumenta-  
tion
5. Thermal  
Radiation
6. Tumbler-- Ins-  
trumentation

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*Ivy  
Snapper*

102

~~CONFIDENTIAL~~

LAMD-1030

~~CONFIDENTIAL~~

Secret

JUN 16 1994

LASL, Pogo  
Notes on staff meeting 14  
December 1951.  
W. E. Ogle n. d. 22 pp

LAMD-1030  
LASL, Pogo  
Ogle, William E  
J-9624  
Ivy  
Snapper  
1. Atomic Cloud  
2. Ball of Fire--  
Photographic  
Analysis  
3. Blast Measure-  
ments  
4. Ivy--Instrumen-  
tation

LAMD-1035

Secret

LASL, Pogo  
Notes on staff meeting 29  
December 1951. Blast measure-  
ments for Ivy and Snapper.  
W. E. Ogle n. d. 15 pp

LAMD-1035  
LASL, Pogo  
Ogle, William E  
J-9659  
Ivy  
Snapper  
1. Blast  
Measurements  
2. Ivy--Blast  
3. Ivy--Instru-  
mentation  
4. Ivy--Photo-  
graphic  
analysis

LAMD-1035

Secret

LASL, Pogo  
Notes on staff meeting 29  
December 1951. Blast measure-  
ments for Ivy and Snapper.  
W. E. Ogle n. d. 15 pp

LAMD-1035  
LASL, Pogo  
Ogle, William E  
J-9659  
Ivy  
Snapper  
1. Blast  
Measurements  
2. Ivy--Blast  
3. Ivy--Instru-  
mentation  
4. Ivy--Photo-  
graphic  
Analysis

~~CONFIDENTIAL~~

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LAMD-1030

LASL. Pogo  
Notes on staff meeting 14  
December 1951.  
W. E. Ogle n. d. 22 pp

Secret

JUN 26 1992

LAMD-1030  
LASL. Pogo  
Ogle, William E  
J-9624  
Ivy  
Snapper  
1. Atomic Cloud  
2. Ball of Fire--  
Photographic  
Analysis  
3. Blast Measure-  
ments  
4. Ivy--Instrumen  
tation

LAMD-1035

- 5. Snapper--Blast
- 6. Snapper--Instrumentation
- 7. Water Waves
- 8. Ivy--Effects  
Experiments
- 9. Snapper--Effects  
Experiments

LAMD-1035

- 5. Snapper--Blast
- 6. Snapper--Instrumentation
- 7. Water Waves
- 8. Ivy--Effects  
Experiments
- 9. Snapper--Effects  
Experiments



NRL-3937

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Secret

JUN 6 1952

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*C-2*

NRL-3956

Naval Research Laboratory  
Radiation Division monthly  
progress report No. 2 for  
period 1 January to 10  
February 1952.  
E. H. Krause February 19, 1952  
15 pp

Secret

NRL-3956  
Naval Research  
Lab.  
Krause, E H  
RD-114  
Ivy  
1. Ivy--Instru-  
mentation

NRL-3990

Naval Research Laboratory  
Monthly progress report for  
the period from 10 March to 10  
April 1952.  
E. H. Krause April 18, 1952  
13 pp

Secret

NRL-3990  
Naval Research  
Lab.  
Krause, E H  
1. Ivy--  
Instrument-  
ation  
2. Mike Burst--  
Diagnostic  
Experiments

TM-85

WD-Family

Secret

JUN 16 1994

Los Alamos Scientific Laboratory  
Preliminary analysis of radiochemical  
data from Shot Mike.  
Bethe and de Hoffmann Dec. 5, 1952  
13 pp

TM-85  
LASL  
Bethe, Hans  
de Hoffmann,  
Frederic  
1. Mike Burst  
--Mathematic  
Analysis...  
2. Ivy--  
Mathematical Analysis

JR-9671

LASL. J-Division  
Present status of Ivy experimental  
program.  
W. E. Ogle 30 January 1952 14 pp

Secret

JR-9671  
LASL. J-Division  
Ogle, William E  
Ivy  
1. Blast  
Measurements  
2. Ivy--Blast  
3. Ivy--Diagnos-  
tic Experi-  
ments  
4. Ivy--Effects  
Experiments  
5. Ivy--Instru-  
mentation

TM-82

WD-Family

Secret

LASL. Theoretical Megaton Group  
Minutes of the forty-second  
meeting, November 14, 1952.  
R. Landshoff n. d. 4 pp  
2 photos

TM-82  
LASL. Theoretical  
Megaton Group  
Landshoff, Rolf  
1. Ivy--Ball of Fire  
2. Ivy--Radiochemistry  
3. Ivy--Yield  
4. Upshot  
5. Castle  
6. Raurod  
7. Thermonuclear  
Gadgets

IR-9671

~~CONFIDENTIAL~~

Secret

~~CONFIDENTIAL~~

LASL. J-Division

Present status of Ivy experimental program.

W. E. Ogle 30 January 1952 14 pp

JR-9671

LASL. J-Division  
Ogle, William E  
Ivy

JUN 16 1952

1. Blast Measurements
2. Ivy--Blast
3. Ivy--Diagnostic Experiments
4. Ivy--Effects Experiments
5. Ivy--Instrumentation

JR-9671

LASL. J-Division

Present status of Ivy experimental program.

W. E. Ogle 30 January 1952 14 pp

Secret

JR-9671

LASL. J-Division  
Ogle, William E  
Ivy

1. Blast Measurements
2. Ivy--Blast
3. Ivy--Diagnostic Experiments
4. Ivy--Effects Experiments
5. Ivy--Instrumentation

NRL-4512

SECRET

Naval Research Laboratory  
HIGH - RESOLUTION SPECTROSCOPY  
AT IVY COMPARED WITH PREVIOUS  
TESTS. OPERATION IVY, PROJECT  
8.4.

Beck, Carl A Feb. 1955 159p.  
22 illustrations

1. Ivy. Project 8.4
2. Ivy--Spectroscopy
3. Atomic Explosions--Spectroscopy
4. Greenhouse--Spectroscopy
5. Buster-Jangle--Spectroscopy
6. Tumbler-Snapper--Spectroscopy
- I. Beck, Carl A
- II. Naval Research Lab.

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

WT-604 (Report: SECRET)

Naval Research Lab., Wash., D.C.  
HIGH-RESOLUTION SPECTROSCOPY AT IVY  
COMPARED WITH PREVIOUS TESTS. OPERATION  
IVY, PACIFIC PROVING GROUND, PROJECT 8.4.  
Beck, Carl A Feb. 1955 159p.

- 1. Ivy--Spectroscopy
- 2. Greenhouse--  
Spectroscopy
- 3. Buster-Jangle--  
Spectroscopy
- 4. Tumbler-Snapper--  
Spectroscopy
- I. Beck, Carl A
- II. Naval Research Lab.,  
Wash., D.C.

JUN 16 1994

PM-B-23

WD-Family

Top Secret

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*DOT*

J-15206

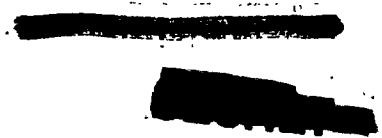
WD-Family

Secret

Joint Task Force 132  
Report of the Commander, Task  
Group 132.1 on Operation Ivy  
Part II - Summary of experi-  
mental programs.  
n. d. 17 pp

(cont'd on card 2)

- J-15206
- Joint Task Force  
132
- 1. Ivy--"Alpha"  
Measurements
- 2. Ivy--Diagnosti  
Experiments
- 3. Ivy--Effects  
Experiments
- 4. Ivy--Blast
- 5. Ivy--Thermal  
Radiation

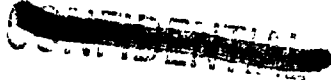


J-15206

WD-Family

Secret

JUN 1954



- 6. Ivy--Transit Time
- 7. King--"Alpha" Measurement
- 8. King Burst --Diagnostic Experiments
- 9. King Burst --Diagnostic Experiments
- 10. King Burst-- Blast
- 11. King Burst --Thermal Radiation
- 12. King Burst--Transit Time
- 13. Mike Burst--"Alpha" Measurement

(cont'd on card 2)

J-15206

WD-Family

Secret

- 14. Mike Burst--Diagnostic Experiments
- 15. Mike Burst--Effects Experiments
- 16. Mike Burst--Blast
- 17. Mike Burst-- Thermal Radiation

JR-9671

LASL. J-Division  
 Present status of Ivy experimental program.  
 W. E. Ogle 30 January 1952 14 pp

Secret

- JR-9671  
 LASL. J-Division  
 Ogle, William E  
 Ivy
- 1. Blast Measurements
  - 2. Ivy--Blast
  - 3. Ivy--Diagnostic Experiments
  - 4. Ivy--Effects Experiments
  - 5. Ivy--Instrumentation



Calif. Univ. Los Angeles  
 MEASUREMENTS OF DIRECT  
 THERMAL IRRADIATION OF AN  
 AIRCRAFT AT OPERATION IVY.  
 MacInnes, et al Dec. 1953  
 30p.

- CARD: Unclassified
1. Ivy—Thermal Radiation
  2. Aircraft—Radiation Effects
    - I. MacInnes, William F
    - II. Romie, Fred E
    - III. Sanders, Victor D
    - IV. Calif. Univ. Los Angeles
    - V. 54WCLSS-214A

JUN 16 1952

JR-9671

LASL. J-Division  
 Present status of Ivy experimental  
 program.  
 W. E. Ogle 30 January 1952 14 pp

Secret

- JR-9671  
 LASL, J-Division  
 Ogle, William E  
 Ivy
1. Blast Measurements
  2. Ivy--Blast
  3. Ivy--Diagnostic Experiments
  4. Ivy--Effects Experiments
  5. Ivy--Instrumentation

J-15206

MD-Family

Joint Task Force 132  
 Report of the Command, Task  
 Group 132.1 on Operation Ivy.  
 Part II - Summary of experimental  
 programs.  
 n. d. 17 pp

Secret

- J-15206  
 Joint Task Force  
 132
1. Ivy--"Alpha" Measurement
  2. Ivy--Diagnostic Experiments
  3. Ivy--Effects Experiments
  4. Ivy--Blast
  5. Ivy--Thermal Radiation

(Cont'd on card ?)

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- 6. Ivy--Transit Time
- 7. King--"Alpha" Measurement
- 8. King Burst --Diagnostic Experiments
- 9. King Burst --Diagnostic Experiments
- 10. King Burst-- Blast
- 11. King Burst --Thermal Radiation
- 12. King Burst--Transit Time
- 13. Mike Burst--"Alpha" Measurement

JUN 16 1994

(cont'd on card 2)

- 14. Mike Burst--Diagnostic Experiments
- 15. Mike Burst--Effects Experiments
- 16. Mike Burst--Blast
- 17. Mike Burst-- Thermal Radiation

Edgerton, Germeshausen & Grier, Inc.  
 Ivy fireball diameter-time characteristics.  
 26 Feb. 1953 28 pp

EG&G-1082  
 Edgerton,  
 Germeshausen  
 & Grier, Inc.  
 EG&G OUT-1086  
 1. Ball of Fire  
 --Photographic  
 Analysis  
 2. King Burst  
 --Ball of  
 fire

(Cont'd on card 2)

~~CONFIDENTIAL~~

EG&G-1082

2

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Secret

JUN 16 1954

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- 3. Mike Burst  
--Ball of  
Fire
- 4. King Burst  
--Yield
- 5. Mike Burst--Yield
- 6. Ivy--Ball  
of Fire
- 7. Ivy--Yield

EG&G-1083

Secret

Edgerton Germeshausen & Grier,  
Inc.  
IVY - Project 3.1. Fireball  
diameter - time characteristics.  
Measurement and calculation sheets.  
Feb 26, 1953 58 pp

- EG&G-1083  
Edgerton,  
Germeshausen  
& Grier Inc.  
EG&G OUT-1087
- 1. Ball of Fire  
--Photographic  
Analysis
  - 2. King Burst--  
Ball of Fire

(cont d on card 2)

EG&G-1083

2

Secret

- 3. King Burst  
--Yield
- 4. Mike Burst--  
Ball of Fire
- 5. Mike Burst--  
Yield
- 6. Ivy--Yield
- 7. Ivy --Ball of  
Fire

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JUN 16 1952

TM-82

WD-Family

Secret

LASL. Theoretical Megaton Group  
Minutes of the forty-second  
meeting, November 14, 1952.  
R. Landshoff n. d. 4 pp  
2 photos

TM-82

LASL. Theoretical  
Megaton Group  
Landshoff, Rolf  
1. Ivy--Ball of Fire  
2. Ivy--Radiochemistry  
3. Ivy--Yield  
4. Upshot  
5. Castle  
6. Haurod  
7. Thermonuclear  
Gadgets

~~SECRET~~

~~CONFIDENTIAL~~

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AFOAT-TS-60-043(Vol.II) (Rpt: Top Secret/RD)  
United States. Air Force. USAF Historical  
Division.  
FOUNDATIONS OF AN ATOMIC AIR FORCE AND  
OPERATION SANDSTONE, 1946-1948 (U). THE  
HISTORY OF AIR FORCE PARTICIPATION IN THE  
ATOMIC ENERGY PROGRAM, 1943-1953. VOLUME II.  
PART I. EXCERPTS. R.D. Little. n.d. 111p.  
(AO-LXXXVII-266-1A)

- CD: Unclass. JUN 6 1969
- I. Auth.
  - II. Corp. Auth.
  - III. OA-LXXXVII-266-1A
    - 1. Atomic weapons--  
History
    - 2. United States.  
Air Force--  
History
    - 3. CROSSROADS
    - 4. SANDSTONE
    - 5. Guided missiles

7-6-83  
Not for WN

c.1 IS-4(A)

N9

LAMD-1186

~~Top~~ Secret

Los Alamos Scientific Laboratory  
California. University. Radiation  
Lab. Livermore Site.  
The necessity for and value of  
continental tests.  
Darol Froman August 28, 1953  
24p.  
  
Auth. No. CX-827-14A

- LAMD-1186  
LASL.  
Calif. U. Radiation  
Lab. Livermore Site  
Froman, Darol F
- 1. Pacific Proving  
Grounds
  - 2. Nevada Proving  
Grounds
  - 3. Sandstone
  - 4. Ranger  
(Cont'd on card 2)

LAMD-1186

card 2

~~Top~~ Secret

- |                    |                     |            |
|--------------------|---------------------|------------|
| 5. Greenhouse      | 16. Easy Burst      | 27. Buster |
| 6. Buster          | 17. Buster Burst A  | Burst B    |
| 7. Tumbler-Snapper | 18. Dog Burst       | 28. Buster |
| 8. Upshot-Knothole | 19. George Burst    | Burst C    |
| 9. Ivy             | 20. Item Burst      | 29. Buster |
| 10. Castle         | 21. Charlie Burst   | Burst D    |
| 11. X-Ray Burst    | 22. Ranger Burst A  | 30. Buster |
| 12. Yoke Burst     | 23. Ranger Burst B  | Burst E    |
| 13. Zebra Burst    | 24. Ranger Burst B2 |            |
| 14. Able Burst     | 25. Ranger Burst E  | (Cont'd on |
| 15. Baker Burst    | 26. Ranger Burst F  | card 3)    |

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LAMD-1186

SECRET  
card 3

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LAMD-1186

card 8

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LAMD-142

Los Alamos Scientific Laboratory  
CROSSROADS PHOTOGRAPES M-42-1 THROUGH  
M-42-10.  
Brixner, et al June 8, 1949 6p. illus.

UNCLASSIFIED

- I. Crossroads
- I. Brixner, Berlyn
- II. Smith, Ralph  
Carlisle
- III. Los Alamos  
Scientific Lab.
- IV. D-CLB-263

~~SECRET~~  
~~SECRET~~

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JUN 16 1992

W-4-380

Secret

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DOE

LA-11929-H (Rpt:Secret/RD)  
Los Alamos National Laboratory.  
CROSSROADS : THE SETTING OF A PRECEDENT (U).  
Betty Perkins, R.E. Schreiber, and Roger A.  
Meade. Aug. 1990. 222 p.

Cd:Unclassified

- 6. Crossroads--  
Personnel
- 7. Warships--  
Nuclear effect

- I. Corp. Auth.
- II. Auth. (3)
  - 1. Crossroads--  
Administration  
and organization
  - 2. Crossroads--  
History
  - 3. Los Alamos  
National  
Laboratory--History
  - 4. Crossroads--  
Preparation
  - 5. Atomic weapons--  
Testing

9-17-90  
GEN

c.6A thru 24A

N13

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~~CONFIDENTIAL~~

JUN

NML-5046, Pt. VIII

New York Naval Shipyard. Material Lab.

Crossroads thermal radiation studies from 1947 to 1949; Summary technical report. 27 April 1950 95 pp

Confidential

NML-5046, Pt. VIII  
New York Naval Shipyard, Material Lab.

- Crossroads
1. Cloth - Effects of Radiation
  2. Crossroads - Bursts - Thermal Radiation
  3. Metals - Effects of Radiation

LA-11929-H (Rpt:Secret/RD)  
Los Alamos National Laboratory.  
CROSSROADS : THE SETTING OF A PRECEDENT (U).  
Betty Perkins, R.E. Schreiber, and Roger A. Meade. Aug. 1990. 222 p.

6. Crossroads-- Personnel
7. Warships-- Nuclear effect

9-17-90 c.6A thru 24A  
GEN

Cd:Unclassified

- I. Corp. Auth.
- II. Auth. (3)
  1. Crossroads-- Administration and organization
  2. Crossroads-- History
  3. Los Alamos National Laboratory--History
  4. Crossroads-- Preparation
  5. Atomic weapons-- Testing

N13

LA-11929-H (Rpt:Secret/RD)  
Los Alamos National Laboratory.  
CROSSROADS : THE SETTING OF A PRECEDENT (U).  
Betty Perkins, R.E. Schreiber, and Roger A. Meade. Aug. 1990. 222 p.

6. Crossroads-- Personnel
7. Warships-- Nuclear effect

9-17-90 c.6A thru 24A  
GEN

Cd:Unclassified

- I. Corp. Auth.
- II. Auth. (3)
  1. Crossroads-- Administration and organization
  2. Crossroads-- History
  3. Los Alamos National Laboratory--History
  4. Crossroads-- Preparation
  5. Atomic weapons-- Testing

N13

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~~CONFIDENTIAL~~

JUN 16 1996

~~CONFIDENTIAL~~

LA-11929-H (Rpt:Secret/RD)  
Los Alamos National Laboratory.  
CROSSROADS : THE SETTING OF A PRECEDENT (U).  
Betty Perkins, R.E. Schreiber, and Roger A.  
Meade. Aug. 1990. 222 p.

- 6. Crossroads--  
Personnel
- 7. Warships--  
Nuclear effect

9-17-90  
GEN

c.6A thru 24A

Cd:Unclassified

- I. Corp. Auth.
- II. Auth. (3)
  - 1. Crossroads--  
Administration  
and organization
  - 2. Crossroads--  
History
  - 3. Los Alamos  
National  
Laboratory--History
  - 4. Crossroads--  
Preparation
  - 5. Atomic weapons--  
Testing

N13

LAMD-136

LASL.  
SUMMARY REPORT. LOS ALAMOS BOMB  
PREPARATION GROUP OPERATION CROSSROADS.  
n.d. 640 p. illus.

Auth. No. XXVIII-294-2a

~~TOP SECRET~~

- 1. Crossroads--Preparation
- 2. Able Burst--Preparation
- 3. Baker Burst--  
Preparation
- 4. Crossroads--Adminis-  
tration & Organiza-  
tion
- 5. Mark III Weapon--  
Testing
- 6. Crossroads--History
  - I. Mastick, Donald  
Francis
  - II. Hermann, E C
  - III. LASL.

Los Alamos Scientific Laboratory  
California. University. Radiation  
Lab. Livermore Site.

The necessity for and value of  
continental tests.

Darol Froman August 28, 1953  
24p.

Auth. No. CX-827-14A

LAMD-1186

LASL.

Calif. U. Radiation  
Lab. Livermore Site

Froman, Darol F

1. Pacific Proving Grounds
2. Nevada Proving Grounds
3. Sandstone
4. Ranger  
(Cont'd on card 2)

JUN 16 1996

LAMD-1186

card 2

~~SECRET~~ Secret

- |                    |                     |            |
|--------------------|---------------------|------------|
| 5. Greenhouse      | 16. Easy Burst      | 27. Buster |
| 6. Buster          | 17. Buster Burst A  | Burst B    |
| 7. Tumbler-Snapper | 18. Dog Burst       | 28. Buster |
| 8. Upshot-Knothole | 19. George Burst    | Burst C    |
| 9. Ivy             | 20. Item Burst      | 29. Buster |
| 10. Castle         | 21. Charlie Burst   | Burst D    |
| 11. X-Ray Burst    | 22. Ranger Burst A  | 30. Buster |
| 12. Yoke Burst     | 23. Ranger Burst B  | Burst E    |
| 13. Zebra Burst    | 24. Ranger Burst B2 |            |
| 14. Able Burst     | 25. Ranger Burst E  | (Cont'd on |
| 15. Baker Burst    | 26. Ranger Burst F  | card 3)    |

LAMD-1186

card 3

~~SECRET~~ Secret

- |                             |                            |
|-----------------------------|----------------------------|
| 31. Tumbler-Snapper Burst 1 | 43. Upshot-Knothole Cliff  |
| 32. Tumbler-Snapper Burst 2 | 44. Upshot-Knothole Dixie  |
| 33. Tumbler-Snapper Burst 3 | 45. Upshot-Knothole Grable |
| 34. Tumbler-Snapper Burst 4 | 46. Upshot-Knothole Harry  |
| 35. Tumbler-Snapper Burst 5 | 47. Upshot-Knothole Encore |
| 36. Tumbler-Snapper Burst 6 | 48. Upshot-Knothole Nancy  |
| 37. Tumbler-Snapper Burst 7 | 49. Upshot-Knothole Ray    |
| 38. Tumbler-Snapper Burst 8 | 50. Upshot-Knothole Ruth   |
| 39. Mike Burst              | 51. Upshot-Knothole Simon  |
| 40. King Burst              | 52. Mark III Weapon        |
| 41. Upshot-Knothole Annie   | (Cont'd on card 4)         |
| 42. Upshot-Knothole Badger  |                            |

LAMD-1186

card 8

Secret

UNCLAS E 1992

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DDI

XR-156, v.I (Enc 1/2/c)

Secret

Joint Task Force One  
Coordinator's report on air blast  
and water shock in tests Able and  
Baker.  
W.G. Penney 27 September 1946  
39 pp.  
15 figs.

XR-156, v.I (Enc  
1/2/c)  
Joint Task Force  
One  
Bureau of Ord.  
Penney, W G

1. Able Burst --  
Elast
2. Baker Burst --  
Elast

SA-9-3 (Rpt: S-RD)  
AAF Aeronautical Chart Plant, St. Louis, MO.  
PRELIMINARY ANALYSIS REPORT ON PHOTOMETRIC  
INSTRUMENTS EMPLOYED ON ABLE TEST. TASK UNIT  
1.52. MEMORANDIUM REPORT. September 14, 1946.  
5p.

CD: UNCLASS.  
I. Corp. Auth.  
1. Able Burst--  
Photography

7-26-78

c.1B

N3



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LAMD-1186

Secret

Los Alamos Scientific Laboratory  
California, University. Radiation  
Lab. Livermore Site.

The necessity for and value of  
continental tests.

Darol Froman August 28, 1953  
24p.

Auth. No. CX-827-14A

LAMD-1186  
LASL.  
Calif. U. Radiation  
Lab. Livermore Site  
Froman, Darol F  
1. Pacific Proving  
Grounds  
2. Nevada Proving  
Grounds  
3. Sandstone  
4. Ranger  
(Cont'd on card 2)

JUN 6 1953

LAMD-1186

card 2

Secret

- |                    |                                 |            |
|--------------------|---------------------------------|------------|
| 5. Greenhouse      | 16. Easy Burst                  | 27. Buster |
| 6. Buster          | 17. Buster Burst A              | Burst B    |
| 7. Tumbler-Snapper | 18. Dog Burst                   | 28. Buster |
| 8. Upshot-Knothole | 19. George Burst                | Burst C    |
| 9. Ivy             | 20. Item Burst                  | 29. Buster |
| 10. Castle         | 21. Charlie Burst               | Burst D    |
| 11. X-Ray Burst    | 22. Ranger Burst A              | 30. Buster |
| 12. Yoke Burst     | 23. Ranger Burst B              | Burst E    |
| 13. Zebra Burst    | 24. Ranger Burst B <sub>2</sub> |            |
| 14. Able Burst     | 25. Ranger Burst E              | (Cont'd on |
| 15. Baker Burst    | 26. Ranger Burst F              | card 3)    |

LAMD-1186

card 3

Secret

- |                             |                             |
|-----------------------------|-----------------------------|
| 31. Tumbler-Snapper Burst 1 | 43. Upshot-Knothole Cliffax |
| 32. Tumbler-Snapper Burst 2 | 44. Upshot-Knothole Dixie   |
| 33. Tumbler-Snapper Burst 3 | 45. Upshot-Knothole Grable  |
| 34. Tumbler-Snapper Burst 4 | 46. Upshot-Knothole Harry   |
| 35. Tumbler-Snapper Burst 5 | 47. Upshot-Knothole Encore  |
| 36. Tumbler-Snapper Burst 6 | 48. Upshot-Knothole Nancy   |
| 37. Tumbler-Snapper Burst 7 | 49. Upshot-Knothole Ray     |
| 38. Tumbler-Snapper Burst 8 | 50. Upshot-Knothole Ruth    |
| 39. Mike Burst              | 51. Upshot-Knothole Simon   |
| 40. King Burst              | 52. Mark III Weapon         |
| 41. Upshot-Knothole Annie   | (Cont'd on card 4)          |
| 42. Upshot-Knothole Badger  |                             |

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JUN 26 1997

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SUN 16 1992

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XR-156, v.I (Enc 1/2/c)

Secret

Joint Task Force One  
Coordinator's report on air blast  
and water shock in tests Able and  
Baker.  
W.G. Penney 27 September 1946  
39 pp.  
15 figs.

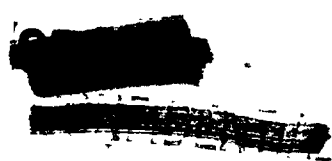
XR-156, v.I (Enc  
1/2/c)  
Joint Task Force  
One  
Bureau of Ord.  
Penney, W G

- 1. Able Burst --  
Elast
- 2. Baker Burst--  
Elast

NOLTR-66-151 (Report: CONFIDENTIAL)  
Naval Ordnance Lab., White Oak, Md.  
UPWIND EXTENT OF THE BASE SURGE AT TEST  
BAKER IN OPERATION CROSSROADS. (U).  
Morley M. Blouke and George A. Young.  
Nov. 30, 1966. 26p. 2p. abs. cds.

Cd: UNCLASSIFIED  
I. Authors (2)  
II. Corp. Auth.  
1. Baker Burst--  
Blast Effects  
2. Blast

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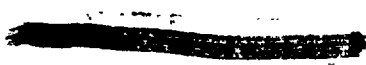
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ILLUSTRATIONS OF THE SHAPE OF  
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Naval Radiological Defense Lab.  
HEAVY NUCLIDE ANALYSES PERFORMED ON  
SAMPLES FROM SHOTS 4 AND 5 AT OPERATION  
CASTLE.

Wish, et al November 29, 1955  
21p.

1. Union Burst
2. Yankee Burst
3. Mike Burst
4. Fall-Out--  
Analysis
5. Transuranium  
Elements--  
Production
  - I. Freiling, E C
  - II. Rowell, M
  - III. Wish, L
  - IV. Naval Radiologi-  
cal Defense Lab.

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EG&G Inc., Los Alamos, N. Mex.  
A REVIEW OF HIGH SPEED PHOTOGRAPHIC DATA  
PROPOSED PROGRAM CONTINUATION (U). 1  
JULY 1973 THROUGH 30 JUNE 1976. Donald  
D. Cobb. 14p.

Submitted to: Headquarters United States  
Air Force, Air Force Technical  
Applications Center, Washington, D.C.

Cd. Unclass.

- I. Author (1)
- II. Corp. Auth.
  1. Boltzman Burst--  
Photography
  2. Dakota Burst--  
Photography
  3. Truckee Burst--  
Photography
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30 SEPTEMBER 1971. 122p. (LAD-522)

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- 9. Priscilla Burst--  
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- I. Corp. Auth.
- II. LAD-522
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  - 4. Navajo Burst--  
Photography
  - 5. Union Burst--  
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  - 6. Nectar Burst--  
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Submitted to: Headquarters United States  
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Edgerton, Germeshausen & Grier,  
Inc., Boston  
RAPATRONIC PHOTOGRAPHY OF  
THE FIREBALL, REDWING, 1956.  
March 15, 1957. 20p.

- 8. Apache Burst--Ball of Fire
- 9. Huron Burst--Ball of Fire
- I. Corp. Author
- II. EG&G Control No. 451

- 1. Lacrosse Burst  
--Ball of Fire
- 2. Yuma Burst--  
Ball of Fire
- 3. Erie Burst--  
Ball of Fire
- 4. Blackfoot Burst--  
Ball of Fire
- 5. Kickapoo Burst--  
Ball of Fire
- 6. Osage Burst--  
Ball of Fire
- 7. Mohawk Burst--  
Ball of Fire

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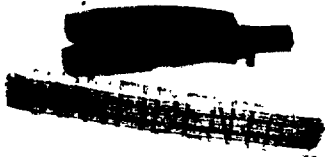
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EG&G-Tech. Memo. B-28 (Report: SECRET) Card: UNCLASSIFIED

Edgerton, Germeshausen & Grier, Inc.  
Boston.  
COMPARISON OF FIELD AND FINAL  
ALPHA VALUES, OPERATION REDWING.  
TECHNICAL MEMORANDUM NO. B-28.  
April 10, 1957. 11p.

- 8. Flathead Burst--"Alpha"
- I. Corp. Author
- II. EG&G OUT 0482

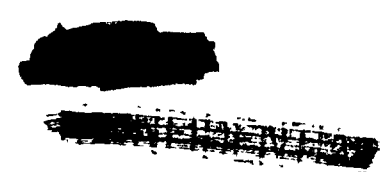
- 1. Lacrosse Burst  
--"Alpha"
- 2. Erie Burst  
--"Alpha"
- 3. Blackfoot Burst  
--"Alpha"
- 4. Osage Burst  
--"Alpha"
- 5. Dakota Burst  
--"Alpha"
- 6. Navajo Burst  
--"Alpha"
- 7. Apache Burst  
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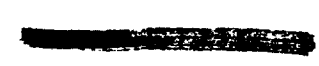
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| Sandia Corp., Albq., N. Mex.           | 1. Umbrella Burst     |
| WARHEAD SYSTEM FOR THE HARDTACK        | 2. <u>Wahoo Burst</u> |
| UNDERWATER NUCLEAR DETONATIONS.        | 3. Underwater Bursts  |
| I. D. Hamilton, R. J. Burton and C. E. | I. Authors (3)        |
| Long. January, 1959. 80p.              | II. Corp. Author      |

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| Edgerton, Germeshausen & Grier, Inc.,<br>Las Vegas               | 1. Yucca Burst--<br>Photography        |
| PROGRAM 9: AFSWP-DOD PHOTO-<br>GRAPHY, FILM CATALOG AND          | 2. <u>Wahoo Burst--</u><br>Photography |
| CAMERA DATA, OPERATION HARD-<br>TACK, PHASE I. October 15, 1958. | 3. Umbrella Burst--<br>Photography     |
| 111p.  | 4. Teak Burst--<br>Photography         |
|  | 5. Orange Burst--<br>Photography       |
|  | 6. Fig Burst--<br>Photography          |
| I. Corp. Author  | 7. Hardtack--<br>Photography           |
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FWC-M-147 (Report: SECRET) Card: UNCLASSIFIED

Fission Weapon Committee  
MINUTES OF THE 147TH MEETING,  
13 OCTOBER 1958. George H. Best.  
October 16, 1958. 4p.

- 1. Hidalgo Test
- 2. Moccasin
- 3. Oak Burst
- 4. Yellowwood Burst
- 5. Quay Burst
- 6. Lea Burst
- 7. Mora Burst
- I. Personal Author
- II. Corp. Author
- III. GMX-1571

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ITR-1647 (Report: SECRET)

Naval Material Lab., Brooklyn  
EFFECTS ON MATERIALS OF THERMAL  
RADIATION FROM NUCLEAR DETONA-  
TIONS. OPERATION HARDTACK -  
PROJECT 8.1. W.L. Derksen, J.A.  
Carter, A. Hirschman and G.P. de  
Lhery. August 14, 1958. 34p.

- 1. Hardtack. Project  
8.1
- 2. Walnut Burst--  
Thermal Radiation
- 3. Yellowwood Burst--  
Thermal Radiation
- 4. Biological Systems--  
Thermal Radiation
- I. Authors (4)
- II. Corp. Author

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NAVORD-4360 (Report: SECRET)

Naval Ordnance Laboratory  
AIRBLAST MEASUREMENTS FROM AN  
UNDERWATER ATOMIC BURST.  
(A PRETEST FEASIBILITY STUDY).  
September, 1956. 96p.

- 1. Percolator Burst / 1111 16 199E
- 2. Underwater Bursts  
--Blast Measure-  
ments  
I. Corp. Author

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SC-4198 (TR) (Report: SECRET) Card: UNCLASSIFIED

Sandia Corp., Albq., N. Mex.  
WARHEAD SYSTEM FOR THE HARDTACK  
UNDERWATER NUCLEAR DETONATIONS.  
I. D. Hamilton, R. J. Burton and C. E.  
Long. January, 1959. 80p.

- 1. Umbrella Burst
- 2. Wahoo Burst
- 3. Underwater Bursts  
I. Authors (3)  
II. Corp. Author

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EG&G-L-369 (Report: CONFIDENTIAL)

Edgerton, Germeshausen & Grier, Inc.,  
Las Vegas  
PROGRAM 9: AFSWP-DOD PHOTO-  
GRAPHY, FILM CATALOG AND  
CAMERA DATA, OPERATION HARD-  
TACK, PHASE I. October 15, 1958.  
111p.

- I. Corp. Author
- II. L-369

- 1. Yucca Burst--  
Photography
- 2. Wahoo Burst--  
Photography
- 3. Umbrella Burst--  
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- 4. Teak Burst--  
Photography
- 5. Orange Burst--  
Photography
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PROGRESS FOR THE MONTH OF JULY,  
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3. Dogwood Burst
4. Poplar Burst
5. Scaevola Burst
6. Pisonia Burst
7. Juniper Burst
8. Olive Burst
9. Pine Burst
10. Hardtack--  
Photography
- I. Corp. Author
- II. B-1782

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FWC-M-145 (Report: SECRET) Card: UNCLASSIFIED

Fission Weapon Committee  
MINUTES OF THE 145TH MEETING,  
OCTOBER 3, 1958. George H. Best.  
October 13, 1958. 4p.

1. Colfax Test
2. Lea Burst
3. Dona Ana Burst
4. Hidalgo Test
5. Rio Arriba Burst
6. Kepler Burst
7. Galileo Burst
8. Blackfoot Burst
9. Huron Burst
10. Sequoia Burst
11. Mora Burst
12. Hardtack-Phase II
- I. Personal Author
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  8. Olive Burst
  9. Pine Burst
  10. Hardtack--  
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- I. Corp. Author
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- 8. Olive Burst
- 9. Pine Burst
- 10. Hardtack--  
Photography
- I. Corp. Author
- II. B-1782

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SRI-LA-92 (Report: SECRET-DI) Cd: UNCLASSIFIED  
Stanford Research Inst., Menlo Park, Calif.  
DEFENSE APPLICATIONS OF BARIUM CLOUDS (U)  
AND VHF RADAR RESULTS-EVENT DOGWOOD (U),  
SPECIAL REPORT NO. 6.

- I. Corp. Auth.
- 1. Secede
- 2. Dogwood Burst
- 3. Microwaves

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