

No.	Pub. Year	Citations	File Name	File Size (bytes)
2	1959-1962	787	RADBIB02.TXT	822,067

The search criteria was for radiation or radiological for publication year greater than 1958 and less than 1963.

The document database four character field names and a descriptor for each field are as follows:

ABS	Abstract
ACCD	Accession Date
ADNO	DTIC Number
AUTH	Author(s)
CCDE	Computer Code(s)
CLSS	Classification
CONN	Contract Number
CORP	Corporation
DATE	Report Date
DESC	Descriptor(s)
EFFT	Damage Mechanism
EMPF	Electro Magnetic Pulse File number(s)
HESO	High Explosive Shot(s)
INUM	Item Number
LA	Country or Language
PROJ	Project Number
REPN	Report Number
SHOT	Nuclear Test(s)
SUCE	Device Designation
SUJO	DASIAC Subject number(s)
SYMJ	Published in
SYST	System Affected
TEMP	Document Control number(s)
TITL	Report Title
TNFF	Tactical Nuclear Warfare
TREE	Transient Radiation Effects on Electronics number(s)
TSHO	Shot Type

Defense Threat Reduction Agency Declassification Review EG 12958	
1st REVIEW DATE: 15 Feb 2000	Classification (Code Max/min)
AUTHORITY: <input checked="" type="checkbox"/> AOC <input type="checkbox"/> ACC <input type="checkbox"/> ACD	1. Classification Existing Unchanged
NAME: [Signature]	2. Classification Changed to: <u>UNCLASSIFIED</u>
2nd REVIEW DATE: 16 Feb 1999	3. Control to DTRA Classified Info
AUTHORITY: <input type="checkbox"/> AOC <input type="checkbox"/> ACC <input type="checkbox"/> ACD	4. Control to: [ ]
NAME: [Signature]	5. Exempt From Declassification
	6. Exemptions 1 2 3 4 5 6 7 8 9

\* WITH DELETIONS.

Statement A  
 Approved for public release; \*  
 Distribution unlimited / 5 Feb 2000  
 THIS VERSION ON 24  
 [Signature]

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Report Log for Bibliography

Report 'bibliography' scheduled as 'radbib'

Bibliography using full text searching with selection qualification.

STILAS text selection v6.2 started on Monday, June 13, 1994, 9:27 AM

Search will use the KUNI database

Search strings will be read from standard input

The catalog key will be written to standard output

19940613092741 BRS/Search-Engine v.5 started for seltext2

11379 records found for #1: RADIATION OR RADIOLOGICAL

1 searches considered

1 searches selected.

STILAS text selection finished on Monday, June 13, 1994, 9:34 AM

STILAS catalog selection v6.2 started on Monday, June 13, 1994, 9:27 AM

Catalog key will be read from standard input

The catalog key will be written to standard output

The author key will be written to standard output

The title key will be written to standard output

Catalog will be selected if year\_of\_pub is more than 1958 and less than 1963

11379 catalog record(s) considered

787 catalog record(s) selected.

STILAS catalog selection finished on Monday, June 13, 1994, 9:34 AM

STILAS call number selection v6.2 started on Monday, June 13, 1994, 9:27 AM

Catalog key will be read from standard input

The callnum primary key will be written to standard output

The shelving key will be written to standard output

String from standard input will be written to standard output

Call number will be selected if library is DOCUMENT

787 callnum record(s) considered

787 callnum record(s) selected.

STILAS call number selection finished on Monday, June 13, 1994, 9:34 AM

STILAS item selection v6.2 started on Monday, June 13, 1994, 9:27 AM

Item file will be read by callnum key from standard input

The item primary key will be written to standard output

String from standard input will be written to standard output

787 item record(s) considered

787 item record(s) selected.

STILAS item selection finished on Monday, June 13, 1994, 9:34 AM

Sort: sorting by CALL NUMBER

STILAS item printing v6.2 started on Monday, June 13, 1994, 9:27 AM

Catalog key will be read from standard input

The print will be a catalog level shelflist

The MARC tags will be written to standard output

The call number only will be written to standard output

The item information will be written to standard output

The report title option will be used

787 catalog(s) printed.

0 catacnt(s) printed.

787 call number(s) printed.

787 item(s) printed.

0 itemacnt(s) printed.

STILAS item printing finished on Monday, June 13, 1994, 9:36 AM

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.title  
Bibliography

Produced Monday, June 13, 1994 at 9:27 AM

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INUM: 00187  
AUTH: HELLER R.B.  
CLSS: U  
CORP: WEAPONS SYSTEMS EVALUATION GROUP (ARLINGTON-VA)  
DATE: 6102  
DESC: Nuclear Weapon Environment radiation decay beta decay L1  
DESC: Solid Mechanics L1  
DESC: THEORY  
REPN: WSEG RM 19  
SUJO: 2-223-430 ; 9-200-000  
TITL: ENERGY AND TIME BETA RAY SPECTRA OF FISSION PRODUCTS OF U-235 BY  
FISSION NEUTRONS AND U-238 BY 14 MEV NEUTRONS (U), 56 P (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00224  
AUTH: DYCE R.B. ; JOHNSON G.L.  
CLSS: S 1  
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)  
DATE: 6111  
DESC: SATELLITE ; EXPERIMENTAL  
DESC: nuclear test detection trapped radiation L1 EXTRA STRATOSPHERIC  
OBSERVATION  
REPN: SRI 1 221  
SUJO: 4-910-700  
TEMP: 23087  
TITL: PRELIMINARY PROGRESS REPORT ON SPECIAL INJUN I DATA STUDY (U), 9 P  
(S)

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INUM: 00226  
AUTH: DYCE R.B.  
CLSS: C  
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)  
DATE: 6111

DESC: SATELLITE ; EXPERIMENTAL  
DESC: nuclear test detection trapped radiation L1 EXTRA STRATOSPHERIC  
OBSERVATION  
REPN: SRI 1 270  
SUJO: 4-910-700  
TEMP: 23269  
TITL: PRELIMINARY PROGRESS REPORT NUMBER 2 ON SPECIAL INJUN I DATA STUDY  
(U), 14 P (C)

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INUM: 00313  
ADNO: 219127  
AUTH: SUESS H.E.  
CLSS: U  
CONN: NONR 2216 01  
CORP: SCRIPPS INSTITUTION OF OCEANOGRAPHY  
DATE: 5901  
DESC: SUMMARY  
DESC: Nuclear Warfare Postattack Recovery resources air quality L5  
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L5  
SUJO: 2-223-410 ; 3-448-300  
TITL: RADIOACTIVITY OF THE ATMOSPHERE AND HYDROSPHERE, ANNUAL REVIEW OF  
NUCLEAR SCIENCE, VOL. 8 (U), 14 P, (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00328  
AUTH: HENDRICK R.W. JR.  
CLSS: SRD 1  
CONN: AF 18 (600) 1808  
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)  
DATE: 6010  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1  
DESC: IR DETECTORS THERMAL NUCLEAR RADIATION PERMANENT DAMAGE ; SUMMARY  
THEORY  
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical  
devices sensors IR detectors L1  
REPN: RM 60 TMP 75



SHOT: TEAK ; ORANGE  
TSHO: HI-ALT  
SUJO: 1-210-000 ; 1-240-000 ; 3-133-000 ; 3-223-000  
TEMP: 17015  
TITL: EFFECTS OF SPACE WEAPONS ON INFRARED SYSTEMS (U), 56 P (SRD)  
TREE: 361

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created: 12/27/1991 type: REPORT permanent

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INUM: 00336  
AUTH: HENDRICK R.W. JR.  
CLSS: SRD 1  
CONN: DA 36 039 SC 85236  
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)  
DATE: 6003  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment X-ray Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: Nuclear Weapon Effects space systems L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: NUCLEAR RADIATION TRANSIENTS X-RAY NUCLEAR RADIATION PERMANENT  
DAMAGE VHF UHF MICROWAVE ; THEORY  
DESC: Nuclear Weapon Effects Communications Systems VHF UHF SHF satellite  
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1  
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy  
Coupling L1  
REPN: RM 60 TMP 17  
SUJO: 1-110-000 ; 1-210-000 ; 1-610-000 ; 1-710-000 ; 2-150-000 ;  
2-321-100 ; 2-322-310 ; 3-114-000  
TEMP: 13526  
TITL: COMMUNICATION SATELLITE ENVIRONMENT, NUCLEAR DETONATION DISTURBANCES  
(U), 35 P(SRD)  
TREE: 393

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created: 12/27/1991 type: REPORT permanent

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INUM: 00370  
AUTH: HAMMAN D.J. ; CHAPIN W.E. ; HANKS C.L. ; WYLER E.N.

CLSS: U  
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)  
DATE: 6106  
DESC: NUCLEAR RADIATION PERMANENT DAMAGE ; SUMMARY  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
DESC: Nuclear Weapon Effects materials ceramics optical L1  
DESC: Nuclear Weapon Effects materials plastics resins L1  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices  
sensors detectors L1  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1  
REPN: REIC 18  
SUJO: 3-221-000 ; 3-224-000 ; 3-229-000 ; 3-231-000 ; 3-241-000 ;  
3-244-000  
TITL: EFFECT OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS (U), 144 P (U)  
TREE: 300

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created: 12/27/1991 type: REPORT permanent

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INUM: 00440  
AUTH: ROCHLIN R.S.  
CLSS: U  
CORP: GENERAL ELECTRIC COMPANY (SCHENECTADY-NY)  
DATE: 5909  
DESC: Nuclear Weapon Phenomenology High-Altitude auroras L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation L1  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L9 P 111  
DESC: EXPLORER 4 (SATELLITE) ; THEORY EXPERIMENTAL BIBLIOGRAPHY  
DESC: nuclear test detection visible light detection L9 P 95 P 105  
DESC: radio microwave propagation abnormal conditions auroral disturbances  
sudden ionospheric disturbances SID polar cap absorptions PCA solar  
eclipse L1  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1  
DESC: Solar Phenomena L1  
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1  
DESC: Nuclear Weapon Effects on animals thermal L1  
REPN: 59 GL 211  
SHOT: TEAK ; ORANGE  
SUJO: 2-211-000 ; 2-215-000 ; 2-321-100 ; 3-312-000 ; 3-313-000 ;  
4-910-900 ; 5-738-000 ; 5-800-000 ; 5-900-000  
TITL: IONIZING RADIATION IN SPACE, NO. 4 (U), 177 P (U)

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INUM: 00441  
AUTH: ROCHLIN R.S.  
CLSS: U  
CORP: GENERAL ELECTRIC COMPANY (SCHENECTADY-NY)  
DATE: 5905  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
DESC: THEORY EXPERIMENTAL  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1  
REPN: 59 GL 112  
SUJO: 2-211-000 ; 5-800-000  
TITL: IONIZING RADIATION IN SPACE, NO. 3 (U), 195 P (U)

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INUM: 00483  
AUTH: BEAVERS J.L. II ; ALLEN L. JR. ; DENNIS J.L. ; WELCH J.A. JR. ;  
WALTON R.B. ; WHITAKER W.A.  
CLSS: SRD 1  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 5901  
DESC: nuclear test detection trapped radiation L1  
DESC: ROCKET OBSERVATION FLORAL JASON ; EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1  
DESC: test instruments nuclear radiation beta electron beams L1  
REPN: SWC 59 TS 008  
SHOT: ARGUS I ; ARGUS II ; TEAK ; ORANGE  
TSHO: HI-ALT  
SUJO: 2-217-000 ; 4-344-000 ; 4-910-700 ; 5-800-000  
TEMP: 23797  
TITL: CLASSIFIED TITLE (U), 114 P (SRD)

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INUM: 00511  
AUTH: BELL J.E. ; WALKER K.R.  
CLSS: U  
CONN: AF 29 (601) 2538  
CORP: HUGHES AIRCRAFT COMPANY (CULVER CITY-CA)  
DATE: 6105  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
DESC: TREE ; THEORY  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1  
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1  
REPN: AFSWC TR 61 40 ; SWC TR 61 40  
SUJO: 3-221-000 ; 3-222-000 ; 3-229-000  
TITL: THEORETICAL STUDY OF BURST INDUCED TRANSIENT RADIATION EFFECTS IN  
BASIC ELECTRONIC CIRCUITS, FINAL REPORT (U), 275 P (U)

TREE: 330

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INUM: 00518  
AUTH: KNECHT D.J.  
CLSS: U  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6008  
DESC: test instruments nuclear radiation beta electron beams L1  
DESC: test instruments nuclear radiation gamma L1  
DESC: FLIGHT SCHEDULE FOR PROBES ; SUMMARY  
REPN: AFSWC TN 60 24 ; SWC TN 60 24  
SUJO: 4-341-000 ; 4-344-000  
TITL: OUTLINE OF THE EXPERIMENTAL PROGRAM IN SPACE PHYSICS OF THE AFSWC  
PHYSICS DIVISION (U), 16 P (U)

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INUM: 00519  
AUTH: WELCH J.A. JR.  
CLSS: U  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6009  
DESC: THEORY  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped

Radiation Particle Fluxes Space Radiation L1

REPN: AFSWC TN 60 29 ; SWC TN 60 29  
SUJO: 5-800-000  
TITL: THEORY OF GEOMAGNETICALLY TRAPPED PARTICLES, PART I SCATTERING LOSS  
OF GEOMAGNETICALLY TRAPPED PARTICLES, PART II CONFIGURATION OF THE  
EARTHS RADIATION BELTS (U), 29 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00523

AUTH: HOCK D.C.

CLSS: U

CONN: AF 29 (601) 2348

CORP: RADIATION INCORPORATED (ORLANDO-FL) ; AIR FORCE/WEAPONS LABORATORY  
(KIRTLAND AIR FORCE BASE-NM)

DATE: 6012

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1

DESC: THEORY

REPN: AFSWC TR 60 57 ; SWC TR 60 57

SUJO: 5-800-000

TITL: PHYSICS OF THE VAN ALLEN RADIATION BELTS (U), 111 P (U)

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copy: 1 id: 37765-1001 library: DOCUMENT price: \$.00  
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created: 12/27/1991 type: REPORT permanent

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INUM: 00538

AUTH: NADLER M.R. ; HOFFMAN P.R.

CLSS: SRD 1

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6006

DESC: Nuclear Weapon Effects reentry systems RV L1

DESC: Nuclear weapon test device physical operation construction geometry  
materials components L5

DESC: TREE NUCLEAR WARHEADS RF ENERGY ; SUMMARY

DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1

REPN: AFSWC TN 60 18 ; SWC TN 60 18

SUJO: 3-113-000 ; 3-161-000 ; 4-836-000

TEMP: 23908

TITL: VULNERABILITY OF ENEMY NUCLEAR WARHEADS TO RF RADIATION (U), 18 P  
(SRD)

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INUM: 00552  
ADNO: 359243  
AUTH: YORK E.N.  
CLSS: SRD 1  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6001  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: Radiation Transport neutron L1  
DESC: THEORY  
DESC: Radiation Transport x-ray L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
REPN: AFSWC TN 59 37 ; SWC TN 59 37  
SUJO: 1-110-000 ; 1-710-000 ; 9-640-000 ; 9-650-000  
TEMP: 23898  
TTTL: INITIAL NUCLEAR RADIATION INFORMATION FOR CALCULATING BIOLOGICAL  
DOSAGE FROM LOW-YIELD NUCLEAR WEAPONS (U), 12 P (SRD)  
TREE: 910 ; 920

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00554  
AUTH: ERMA V.A. ; RUHLIG A.J.  
CLSS: SRD 1  
CONN: AF 29 (601) 1015  
CORP: AERONUTRONIC DIVISION OF PHILCO CORPORATION (NEWPORT BEACH-CA) ; AIR  
FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6003  
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1  
DESC: THEORY  
REPN: AFSWC TR 59 35 SUPP 1 ; SWC TR 59 35 SUPP 1  
SUJO: 2-420-000  
TEMP: 23871 SUPPL 1  
TTTL: RADIATION FROM ARGUS ELECTRONS (U), 45 P (SRD)

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INUM: 00555  
ADNO: 369265  
AUTH: WISER H.L. ; PERKINS C.W. ; ROSENFELD J.  
CLSS: SRD 1  
CONN: AF 29 (601) 1259  
CORP: HUGHES AIRCRAFT COMPANY (CULVER CITY-CA) ; AIR FORCE/WEAPONS  
LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 5907  
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1  
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1  
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: TREE ; THEORY  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
REPN: AFSWC TR 59 33 ; SWC TR 59 33  
TSHO: HI ALT  
SUJO: 1-110-000 ; 1-140-000 ; 1-710-000 ; 1-740-000 ; 3-221-000 ;  
3-222-000 ; 3-229-000  
TEMP: 23870  
TITL: TRANSIENT RADIATION EFFECTS IN ELECTRONICS (U), 112 P (SRD)  
TREE: 100

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INUM: 00557  
AUTH: REIFFEL L.  
CLSS: SRD 1  
CCDE: ZZ (RADIATION DEPOSITION)  
CONN: AF 29 (601) 1164  
CORP: ILLINOIS INSTITUTE OF TECHNOLOGY/RESEARCH INSTITUTE (CHICAGO-IL) ;  
AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 5906  
DESC: Cross Sections x-ray L1  
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray  
L1  
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry prompt  
neutron L1  
DESC: THEORY CODE

DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence  
transitions L1  
REPN: AFSWC TR 59 39 VOL 2 ; SWC TR 59 39 VOL 2  
SUJO: 2-312-300 ; 2-312-400 ; 2-629-000 ; 9-840-000  
TEMP: 23874 VOL 2  
TITL: STUDY OF LUNAR RESEARCH FLIGHTS, VOLUME II (U), CIRCA 150 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00560  
ADNO: 369269  
AUTH: BRUECKNER K.A. ; COOK C.W. ; GOLDBERGER M.L. ; HAMLIN D.A. ; KARPLUS  
R. ; KAUFMAN A. ; NORTHROP T.G. ; PAPPERT R.A. ; VIK R.C. ; WATSON  
K.M.

CLSS: SRD 1

CONN: AF 29 (601) 1150

CORP: GD/CONVAIR DIVISION (SAN DIEGO-CA) ; AIR FORCE/WEAPONS LABORATORY  
(KIRTLAND AIR FORCE BASE-NM)

DATE: 5910

DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1

DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic  
Perturbations L1

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1

DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy  
Coupling L1

DESC: THEORY

DESC: Fluid Mechanics hydrodynamics L1

REPN: AFSWC TR 59 59 ; SWC TR 59 59

TSHO: HI ALT

SUJO: 2-110-000 ; 2-150-000 ; 2-211-000 ; 2-420-000 ; 2-530-000 ;  
5-800-000 ; 9-410-000

TEMP: 23877

TITL: PHYSICS OF NUCLEAR EXPLOSIONS IN SPACE (U), 364 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00585

ADNO: 356968



AUTH: ZADOFF L. ; BERNSTEIN M.  
CLSS: SRD 1  
CONN: AF 29 (601) 2324  
CORP: REPUBLIC AVIATION CORPORATION (FARMINGDALE-NY) ; AIR FORCE/WEAPONS  
LABORATORY (KIRTLAND AIR FORCE BASE-MM)  
DATE: 6102  
DESC: Solid Mechanics L1  
DESC: Radiation Transport plasma L1  
DESC: THEORY  
REPN: AFSWC TR 61 1 VOL 3 ; SWC TR 61 1 VOL 3  
SUJO: 9-200-000 ; 9-660-000  
TEMP: 23951 VOL 3  
TITL: THEORETICAL STUDIES IN THE MOTION OF BOMB DEBRIS, VOLUME III (U), 48  
P (SRD)

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00585

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created: 12/27/1991 type: REPORT permanent

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INUM: 00586  
AUTH: BURGREN D. ; MENKES S.B.  
CLSS: SRD 1  
CONN: AF 29 (601) 2827  
CORP: UNITED NUCLEAR CORPORATION (ELMSFORD-NY)  
DATE: 6107  
DESC: THERMAL BLAST AND SHOCK NUCLEAR RADIATION PERMANENT DAMAGE ; THEORY  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1  
REPN: AFSWC TR 61 41 ; SWC TR 61 41  
SUJO: 3-161-000  
TEMP: 23920  
TITL: CLASSIFIED TITLE (U), 107 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00592  
AUTH: WHITAKER W.A.  
CLSS: SRD 1  
CORP: GD/CONVAIR DIVISION (SAN DIEGO-CA) ; AIR FORCE/WEAPONS LABORATORY  
(KIRTLAND AIR FORCE BASE-NM)  
DATE: 5908  
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic  
Perturbations L1  
DESC: SPACESHARE CONFERENCE PROCEEDINGS ; SUMMARY  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped

Radiation Particle Fluxes Space Radiation L1

DESC: Nuclear Energy Peaceful Applications basic physical measurements  
nuclear cross sections L1

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

REPN: SWR TM 59 5

SUJO: 2-211-000 ; 2-510-000 ; 2-530-000 ; 3-486-000 ; 5-800-000

TEMP: 23925

TITL: SPACESHARE, PROCEEDINGS OF THE CONFERENCE ON THE PEACEFUL USES OF  
NUCLEAR WEAPONS IN SPACE, AUGUST 10 15, 1959, HELD AT UNITED STATES  
AIR FORCE ACADEMY, COLORADO SPRINGS, COLORADO (U), 110 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00600

AUTH: SCHRAG R.L.

CLSS: U

CONN: DA 49 146 XZ 067

CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)

DATE: 6108

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1

DESC: radio microwave propagation abnormal conditions auroral disturbances  
sudden ionospheric disturbances SID polar cap absorptions PCA solar  
eclipse L1

DESC: ARTIFICIAL AURORA ; THEORY

REPN: SRI PROJ 3644 ; SPECIAL REPORT 1

SUJO: 5-738-000 ; 5-800-000

TITL: PROBLEMS RELATED TO THE PROJECTION OF A SOFT, HIGH-CURRENT ELECTRON  
BEAM ALONGTHE EARTH'S MAGNETIC LINES USING A ROCKET-BORNE  
ACCELERATOR, SPECIAL REPORT 1 (U), 43 P (U)

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00600

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created: 12/27/1991 type: REPORT permanent

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INUM: 00711

AUTH: WESLEY J.P.

CLSS: CFRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6104

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

DESC: THEORY  
EMPF: 221  
REPN: UCRL 5157 (REV)  
TSHO: HI-ALT  
SUJO: 2-510-000  
TEMP: B8499  
TITL: THEORY OF ELECTROMAGNETIC FIELD FROM A HIGH-ALTITUDE SHOT (U), 36 P  
(U)

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00711  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 00712  
AUTH: NAKADA P.  
CLSS: SFRD 1  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 5905  
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1  
DESC: THEORY  
REPN: UCRL 5585  
SUJO: 2-420-000  
TEMP: 25218  
TITL: SYNCHROTRON RADIATION FROM ARGUS ELECTRONS (U), 32 P (SFRD)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00748  
AUTH: ALTSHULER T.  
CLSS: U  
CORP: GENERAL ELECTRIC COMPANY/ADVANCED ELECTRONICS CENTER (ITHACA-NY)  
DATE: 6002  
DESC: THEORY  
DESC: Radiation Transport IR L1  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1  
REPN: R 59 ELC 115  
SUJO: 5-200-000 ; 9-670-000  
TITL: ATMOSPHERIC TRANSMISSION OF INFRARED (U), 29 P (U)

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00748  
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copy: 1 id: 37871-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 00749  
AUTH: ELLIOTT F.E. ; ALTSHULER T.L.  
CLSS: U  
CORP: GENERAL ELECTRIC COMPANY/ADVANCED ELECTRONICS CENTER (ITHACA-NY)  
DATE: 6002  
DESC: THEORY  
DESC: Radiation Transport IR L1  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1  
REPN: R 60 ELC 16  
SUJO: 5-200-000 ; 9-670-000  
TITL: TRANSMISSION OF INFRARED THROUGH CLOUDY ATMOSPHERES (U), 28 P (U)

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copy: 1 id: 37872-1001 library: DOCUMENT price: \$.00  
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created: 12/27/1991 type: REPORT permanent

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INUM: 00822  
CLSS: U  
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)  
DATE: 6108  
DESC: SURVEY  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1  
REPN: REIC 8 C  
SUJO: 4-140-000  
TEMP: 25437  
TITL: NUCLEAR RADIATION EFFECTS PROJECTS (U), 80 P (U)  
TREE: 642

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copy: 1 id: 37894-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 00823  
CLSS: SRD 1  
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)  
DATE: 5907  
DESC: Nuclear Weapon Effects materials plastics resins L1 X RAYS  
DESC: Nuclear Weapon Effects materials metals alloys L5  
DESC: GAMMA ELECTRON PERMANENT DAMAGE CONVENTIONAL SIMULATION ; SUMMARY  
DESC: Nuclear Weapon Effects materials fibers textiles L5 COTTON  
REPN: REIC 3 C

SUJO: 3-242-000 ; 3-243-000 ; 3-244-000  
TEMP: 25436  
TITL: DOSE-RATE EFFECTS IN RADIATION DAMAGE (U), 20 P (SRD)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00824  
CLSS: SRD 1  
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)  
DATE: 6105  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1  
DESC: Nuclear Weapon Environment Fallout beta intensities L1  
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1  
DESC: Simulation Facilities Techniques TREE L5  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources 61 PULSED REACTOR DESCRIPTIONS  
DESC: Simulation Facilities Techniques x-ray effects L5  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1  
DESC: NEUTRON GAMMA TRANSIENTS PERMANENT DAMAGE CONVENTIONAL SIMULATION ;  
EXPERIMENTAL BIBLIOGRAPHY  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit  
network L1  
REPN: REIC 6 C  
SUJO: 1-110-000 ; 1-140-000 ; 1-710-000 ; 1-740-000 ; 2-223-300 ;  
3-219-000 ; 3-221-000 ; 3-229-000 ; 4-231-000 ; 4-241-000 ;  
4-272-000

TEMP: 25434  
TITL: EFFECTS OF NUCLEAR-WEAPON BURSTS AND SIMULATED BURSTS ON ELECTRONIC  
COMPONENTS(U), 128 P (SRD)  
TREE: 100

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INUM: 00830  
AUTH: RICHARDS P.I.

CLSS: U  
CCDE: TECH OPS 2D HYDRO  
CORP: TECHNICAL OPERATIONS, INC. (BURLINGTON, MASS.)  
DATE: 6107  
DESC: Radiation Transport gamma L5  
DESC: 100 KRT  
DESC: Nuclear Weapon Environment Airblast static overpressure  
OVERPRESSURE.L1  
REPN: TO B 61 41  
SUJO: 2-611-000 ; 9-620-000  
TITL: STUDY OF BOMB DEBRIS EFFECTS, SECOND PROGRESS REPORT (15 MAY TO 15  
JULY 1961) (U), 12 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00831  
AUTH: RICHARDS P.I.  
CLSS: U  
CCDE: TECH OPS 2D HYDRO  
CORP: TECHNICAL OPERATIONS, INC. (BURLINGTON, MASS.)  
DATE: 6109  
DESC: Radiation Transport gamma L5  
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L5  
REPN: TO B 61 53  
SUJO: 2-160-000 ; 9-620-000  
TITL: STUDY OF BOMB DEBRIS EFFECTS, THIRD PROGRESS REPORT (15 JULY TO 15  
SEPTEMBER 1961) (U), 27 P., (U)

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INUM: 00832  
AUTH: RICHARDS P.I.  
CLSS: U  
CCDE: TECH OPS 2D HYDRO  
CORP: TECHNICAL OPERATIONS, INC. (BURLINGTON, MASS.)  
DATE: 6111  
DESC: Nuclear Weapon Environment Airblast static overpressure  
OVERPRESSURE.L1  
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L5  
DESC: Radiation Transport gamma L5  
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE.L1  
REPN: TO B 61 67

SUJO: 2-160-000 ; 2-611-000 ; 2-612-000 ; 9-620-000  
TITL: STUDY OF BOMB DEBRIS EFFECTS, FOURTH PROGRESS REPORT (15 SEPTEMBER  
TO 15 NOVEMBER 1961) (U), 16 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00845  
ADNO: 210766  
AUTH: OESTMANN M.J. ; KIRCHER J.F.  
CLSS: U  
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)  
DATE: 5903  
DESC: test instruments nuclear radiation neutron L1  
DESC: SURVEY  
DESC: test instruments nuclear radiation gamma L1  
REPN: REIC 6 (ADDENDUM)  
SUJO: 4-341-000 ; 4-342-000  
TITL: SURVEY OF CURRENT RESEARCH AND DEVELOPMENTS IN THE FIELD OF  
DOSIMETRY, FIRST ADDENDUM (U), 16 P (U)

TREE: 655  
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00845  
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copy: 1 id: 37904-1001 library: DOCUMENT price: \$.00  
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INUM: 00848  
CLSS: U  
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)  
DATE: 6106  
DESC: SUMMARY  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1  
REPN: REIC 22  
SUJO: 4-140-000  
TITL: RADIATION EFFECTS STATE OF THE ART, 1960-1961 (U), 52 P (U)  
TREE: 642

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 00849  
AUTH: KING R.W. ; BROADWAY N.J. ; PALINCHAK S.  
CLSS: U  
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)  
DATE: 6109  
DESC: Nuclear Weapon Effects materials plastics resins L1 GAMMA NEUTRON  
PERMANENT DAMAGE CONVENTIONAL SIMULATION  
DESC: SUMMARY EXPERIMENTAL  
REPN: REIC 21  
SUJO: 3-244-000  
TITL: EFFECT OF NUCLEAR RADIATION ON ELASTOMERIC AND PLASTIC COMPONENTS  
AND MATERIALS (U), CIRCA 375 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00850  
AUTH: SHOBER F.R.  
CLSS: U  
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)  
DATE: 6109  
DESC: SUMMARY TABULAR  
DESC: Nuclear Weapon Effects materials metals alloys L1 STEEL ZIRCONIUM  
NICKEL COPPER BERYLLIUM ALUMINUM MAGNESIUM NEUTRON GAMMA PERMANENT  
DAMAGE CONVENTIONAL SIMULATION  
REPN: REIC 20  
SUJO: 3-243-000  
TITL: EFFECT OF NUCLEAR RADIATION ON STRUCTURAL METALS (U), 192 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00855  
CLSS: U  
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)  
DATE: 6109  
DESC: test instruments nuclear radiation L1  
DESC: BIBLIOGRAPHY  
REPN: REIC 23  
SUJO: 4-340-000  
TITL: RADIATION DOSIMETRY, AN ANNOTATED BIBLIOGRAPHY (U), 240 P (U) 42 P,  
(SRD)

TREE: 655 ; 150

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00864  
AUTH: OESTMANN M.J.  
CLSS: U  
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)  
DATE: 6102  
DESC: Simulation Facilities Techniques nuclear radiation L1  
DESC: GAMMA FACILITIES ; SURVEY  
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources L1  
REPN: REIC 16  
SUJO: 4-240-000 ; 4-241-000  
TITL: SURVEY OF IRRADIATION FACILITIES (U), 214 P (U)  
TREE: 642

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00886  
ADNO: 327354  
AUTH: TINNEY J.F.  
CLSS: (U)  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6110  
DESC: Nuclear Test Simulation Field Programs experiment design rocket  
probe sounding rocket descriptions balloons L5  
DESC: JASON ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry  
general descriptions L1  
REPN: AFSWC TR 61 92 ; SWC TR 61 92  
SHOT: ARGUS II  
SUJO: 2-311-000 ; 3-312-100 ; 4-820-900  
TEMP: 25573  
TITL: PERSONNEL HAZARDS ASSOCIATED WITH ARGUS ELECTRONS (U), 26 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00898  
ADNO: 269849  
AUTH: OPPENHEIM I.  
CLSS: U  
CONN: DA 04 495 ORD 3112 ; AF 19 (604) 7331  
CORP: GD/CONVAIR DIVISION (SAN DIEGO-CA)  
DATE: 6106  
DESC: Composition Chemistry Atmosphere Reaction Rates L1  
DESC: THEORY  
DESC: Radiation Transport L1  
DESC: Ionosphere normal properties L1  
REPN: ZPH 108  
SUJO: 5-400-000 ; 5-710-000 ; 9-600-000  
TITL: TRANSPORT EQUATIONS FOR THE UPPER ATMOSPHERE (U), 41 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00909  
ADNO: 268958  
AUTH: ANTHONY A.E. JR.  
CLSS: U  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6110  
DESC: Radiation Transport neutron L1  
DESC: THEORY TABULAR  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L9 P 10  
REPN: AFSWC TR 61 85 ; SWC TR 61 85  
TSHO: HI-ALT  
SUJO: 3-312-100 ; 9-650-000  
TITL: TRANSPORT OF NEUTRONS THROUGH THE ATMOSPHERE FOR A BURST HEIGHT OF  
70,000 FEET(U), 49 P (U)  
TREE: 970

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INUM: 00919  
AUTH: LAMARSH J.R. ; LIEBERMAN A.I. ; CHESNUT W.G.  
CLSS: SRD 1  
CCDE: MCL-2  
CONN: DA 30 069 501 ORD 2538

CORP: GC DEWEY COMPANY (NEW YORK-NY)  
DATE: 5905  
DESC: STATISTICS ; THEORY CODE  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1  
REPN: GCD LOG 143  
SUJO: 4-140-000  
TEMP: 25621  
TITL: FIRST QUARTERLY PROGRESS REPORT (U), 27 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00920  
AUTH: CHESNUT W.G. ; LIEBERMAN A.I. ; LAMARSH J.R. ; SCHWARTZ J.L.  
CLSS: SRD 1  
CCDE: MCL-1 ; MCL-2  
CONN: DA 30 069 501 ORD 2538  
CORP: GC DEWEY COMPANY (NEW YORK-NY)  
DATE: 5908  
DESC: THEORY CODE  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear

radiation transport L1

REPN: GCD LOG 177  
SUJO: 4-140-000  
TEMP: 25622  
TITL: SECOND QUARTERLY PROGRESS REPORT (U), 23 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00921  
CLSS: SRD 1  
CCDE: MCL-2  
CONN: DA 30 069 501 ORD 2538  
CORP: GC DEWEY COMPANY (NEW YORK-NY)  
DATE: 5911  
DESC: Radiation Transport neutron L1  
DESC: Nuclear Weapon Effects space systems L1  
DESC: PERMANENT DAMAGE NUCLEAR WEAPONS X-RAY NEUTRON ; THEORY CODE  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1  
REPN: GCD LOG 226  
SUJO: 3-114-000 ; 3-161-000 ; 9-650-000  
TEMP: 25623

TITL: THIRD QUARTERLY PROGRESS REPORT (U), 19 P (SRD)

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copy: 1 id: 37933-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 00923-02

CLSS: SRD 1

CONN: DA 30 069 501 ORD 2538

CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)

DATE: 6003

DESC: Nuclear Weapon Effects structures aboveground models cylinders cones  
rings L1 X-RAY

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1

DESC: THEORY

REPN: GCD LOG 294

SUJO: 3-259-400 ; 4-140-000

TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 2, 1  
MARCH 1960 TO 31 MARCH 1960 (U), 13 P (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 00923-05

CLSS: SRD 1

CONN: DA 30 069 501 ORD 2538

CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)

DATE: 6006

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1

REPN: GCA LOG 323

SUJO: 4-140-000

TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 5, 1  
JUNE 1960 30 JUNE 1960 (U), 6 P (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 00923-06  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6007  
DESC: THEORY  
DESC: Radiation Transport x-ray L1  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads X-RAY NEUTRON  
LETHAL RANGE  
REPN: GCD LOG 330  
SUJO: 3-161-000 ; 9-640-000  
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 6, 1  
JULY 1960 31 JULY 1960 (U), 15 P (SRD)

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copy: 1 id: 37940-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 00923-07  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6008  
DESC: Radiation Transport neutron L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: THEORY  
REPN: GCD LOG 331  
SUJO: 1-110-000 ; 9-650-000  
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO 7, 1  
AUGUST 1960 31 AUGUST 1960 (U), 6 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00923-08  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6009  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1  
REPN: GCD LOG 345

SUJO: 4-140-000  
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 8, 1  
SEPTEMBER 1960 30 SEPTEMBER 1960 (U), 10 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00923-09  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6010  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1  
REPN: GCD LOG 367  
SUJO: 4-140-000  
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 9, 1  
OCTOBER 1960 31 OCTOBER 1960 (U), 5 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00923-10  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6011  
DESC: Cross Sections x-ray L1  
DESC: THEORY  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 NEUTRON  
DESC: Nuclear weapon test device physical operation construction geometry  
materials components L5  
DESC: Radiation Transport neutron L1  
REPN: GCD LOG 390  
SUJO: 3-161-000 ; 4-836-000 ; 9-650-000 ; 9-840-000  
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 10, 1  
NOVEMBER 1960 30 NOVEMBER 1960 (U), 4 P (SRD)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00923-12  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6101  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1  
REPN: GCD LOG 420  
SUJO: 4-140-000  
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 12, 1  
JANUARY 1961 31 JANUARY1961 (U), 16 P (SRD)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00923-14  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6103  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1  
REPN: GCD LOG 437  
SUJO: 4-140-000  
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 14, 1  
MARCH 1961 31 MARCH 1961 (U), 41 P (SRD)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00923-15  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6104  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1

REPN: GCD LOG 463  
SUJO: 4-140-000  
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 15, 1  
APRIL 1961 30 APRIL 1961 (U), 12 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 00923-17  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6106  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1

DESC: Nuclear Weapon Effects ordnance explosives L1 X-RAY

DESC: THEORY

REPN: GCD LOG 489

SUJO: 3-163-000 ; 4-140-000

TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 17, 1  
JUNE 1961 30 JUNE 1961 (U), 9 P (SRD)

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copy: 1 id: 37951-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 00923-18  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6107  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1

DESC: Nuclear Weapon Effects ordnance explosives L1 X-RAY

DESC: THEORY

REPN: GCD LOG 491

SUJO: 3-163-000 ; 4-140-000

TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 18, 1  
JULY 1961 31 JULY 1961 (U), 9 P (SRD)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00923-21  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6112  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1  
REPN: GCD LOG 558  
SUJO: 4-140-000  
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORTS NOS. 22  
AND 23, 1 NOVEMBER 1961 31 DECEMBER 1961 (U), 4 P (SRD)

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copy: 1 id: 37955-1001 library: DOCUMENT price: \$.00  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 00923-22  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)  
DATE: 6201  
DESC: Radiation Transport neutron L1  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 NEUTRONS  
DESC: THEORY  
REPN: GCD LOG 563  
SUJO: 3-161-000 ; 9-650-000  
TITL: APPLIED PHYSICS STUDIES OF PROBLEMS ASSOCIATED WITH THE USE OF  
NUCLEAR WEAPONSIN AIR DEFENSE, TECHNICAL PROGRESS REPORT NO. 24, 1  
JANUARY 1962 31 JANUARY 1962 (U), 8 P (SRD)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00924  
AUTH: CHESNUT W.G.  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY COMPANY (NEW YORK-NY)

DATE: 5905  
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1  
DESC: Radiation Transport x-ray L1  
DESC: Cross Sections x-ray L1  
DESC: THEORY  
DESC: Nuclear Weapon Environment X-ray Output rate L1  
DESC: Nuclear Weapon Environment X-ray Output source strength total  
intensity L1  
REPN: TN 59 01 ; GCD LOG 141  
SUJO: 1-610-000 ; 1-620-000 ; 1-640-000 ; 9-640-000 ; 9-840-000  
TEMP: 25647  
TITL: CLASSIFIED TITLE (U), 36 P (SRD)

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00924  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 00925  
AUTH: LAMARSH J.R.  
CLSS: SRD 1  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY COMPANY (NEW YORK-NY)  
DATE: 6007  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 NEUTRON  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L9 P 15  
DESC: THEORY  
DESC: Radiation Transport neutron L1  
REPN: GCD LOG 328  
SUJO: 1-120-000 ; 3-161-000 ; 9-650-000  
TEMP: 25648  
TITL: MONTE CARLO CALCULATIONS OF NEUTRON PENETRATION INTO NUCLEAR  
WARHEADS (U), 29 P (SRD)

TREE: 970  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 00926  
AUTH: LAMARSH J.R. ; LIEBERMAN A.I.  
CLSS: U  
CCDE: MCC-1 ; MCC-2  
CONN: DA 30 069 501 ORD 2538  
CORP: G.C. DEWEY COMPANY (NEW YORK-NY)  
DATE: 6008  
DESC: Radiation Transport neutron L1

DESC: CODE  
SUJO: 9-650-000  
TEMP: 25649  
TITL: TWO MONTE CARLO CODES FOR NEUTRON TRANSPORT IN SPHERICAL SYSTEMS  
(U), 24 P (U)

TREE: 970

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copy: 1 id: 37959-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 00927

AUTH: AYRES R.U.

CLSS: SRD 1

CONN: DA 30 069 501 ORD 2538

CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)

DATE: 6105

DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature  
Density Particle Velocities L1 TEMPERATURE

DESC: THEORY

REPN: TN 61 25 ; GCD LOG 460

SUJO: 2-130-000

TEMP: 25650

TITL: RADIATION FROM A NUCLEAR DEVICE (U), 15 P (SRD)

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copy: 1 id: 37960-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 00929

ADNO: 391068L

AUTH: CHESNUT W.G.

CLSS: SRD 1

CONN: DA 30 069 ORD 2538

CORP: G.C. DEWEY CORPORATION (NEW YORK-NY)

DATE: 6110

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1  
DESC: equation of state heat of vaporization thermal conductivity opacity

L1

DESC: Cross Sections x-ray L1

DESC: Nuclear Weapon Environment X-ray Output rate L1

DESC: Nuclear Weapon Environment X-ray Output source strength total  
intensity L1

DESC: Nuclear Weapon Effects materials metals alloys L1 CARBON ALUMINUM  
LEAD SILICON OXIDE

DESC: Radiation Transport x-ray L1

DESC: X-RAY ; THEORY  
REPN: GCD LOG 548 ; R 118 061 02  
SUJO: 1-610-000 ; 1-620-000 ; 1-640-000 ; 3-243-000 ; 9-640-000 ;  
9-710-000 ; 9-840-000  
TEMP: 25652  
TITL: STUDY OF NUCLEAR WEAPON PHENOMENA IN SPACE WARFARE (U), 196 P (SRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 00958  
AUTH: RICHARDS P.I.  
CLSS: U  
CCDE: ZZ(INITIAL CONDITIONS)  
CONN: DA 19 020 ORD 5408  
CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MA)  
DATE: 6205  
DESC: Composition Chemistry Atmosphere Reaction Rates L1  
DESC: THEORY  
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1  
REPN: TO B 62 24  
SUJO: 2-160-000 ; 5-400-000  
TITL: SUMMARY REPORT ON INVESTIGATION OF RADIATION AND CHEMICAL  
CALCULATIONS (U), CIRCA 120 P (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 00966  
AUTH: TORREY M.D.  
CLSS: C  
CCDE: TECH OPS 2D HYDRO  
CORP: TECHNICAL OPERATIONS, INC. (BURLINGTON, MASS.)  
DATE: 6206  
DESC: Nuclear Weapon Environment Airblast static overpressure  
OVERPRESSURE.L5  
DESC: Radiation Transport gamma L5  
DESC: NIKE  
REPN: TO B 62 34  
TSHO: HI-ALT  
SUJO: 2-611-000 ; 9-620-000  
TEMP: 27074  
TITL: STUDY OF BOMB DEBRIS EFFECTS, INTERIM PROGRESS REPORT (15 MARCH TO  
15 JUNE 1962), (U), 3 P., (S)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00984  
AUTH: HERSHEY T.L.  
CLSS: SRD 1  
CORP: AIR FORCE/FLIGHT DYNAMICS LABORATORY (WRIGHT-PATTERSON AFB-O4) ; AIR  
FORCE/FLIGHT DYNAMICS LABORATORY (WRIGHT-PATTERSON AFB-OH)  
DATE: 6111  
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy  
Coupling L1  
DESC: Nuclear Weapon Effects materials plastics resins L1  
DESC: Nuclear Weapon Environment Visible Output source strength total  
intensity L1  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
DESC: Radiation Transport thermal L1  
DESC: Nuclear Weapon Effects materials metals alloys L1 IRON ALUMINUM  
COPPER BERYLLIUM LEAD STAINLESS STEEL MOLYBDENUM TITANIUM ZINC  
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature  
Density Particle Velocities L1  
DESC: THERMAL ; SUMMARY THEROY EXPERIMENTAL  
DESC: equation of state heat of vaporization thermal conductivity opacity  
L1  
REPN: WADD TR 61 69  
SHOT: MET ; ERIE ; MOHAWK ; SMOKY  
TSHO: LOW-ALT  
SUJO: 1-410-000 ; 2-110-000 ; 2-130-000 ; 2-150-000 ; 3-243-000 ;  
3-244-000 ; 9-610-000 ; 9-710-000  
TEMP: 25953  
TITL: SUMMARY OF STUDIES ON THERMAL ABLATION FROM NUCLEAR FIREBALLS (U),  
234 P (SRD)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 00990  
AUTH: JOHNSON G.L. ; DYCE R.B.  
CLSS: S  
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)  
DATE: 6200  
DESC: nuclear test detection trapped radiation L1  
DESC: RUSSIAN TEST DETECTION ; INJUN 1 (SATELLITE) ; EXPERIMENTAL  
REPN: SRI 2 177

SUJO: 4-910-700  
TEMP: 25181  
TITL: PRELIMINARY RESULTS FROM THE STUDY OF INJUN I SATELLITE RECORDS  
COVERING THE PERIOD OF THE SOVIET NUCLEAR TESTS (U), 15 P (S)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 01024  
ADNO: 369263  
AUTH: HALLMAN T.M.  
CLSS: SRD 1  
CONN: AF 29 (601) 5184  
CORP: NORTHROP CORPORATION/RADIOPLANE DIVISION (VAN NUYS-CA) ; AIR  
FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6204  
DESC: Nuclear Test Simulation Field Programs experiment design gamma  
experiments L1  
DESC: Nuclear Weapon Test cost L1  
DESC: Nuclear Weapon Test site layout L1  
REPN: RADIOPLANE R 2550 ; AFSWC TDR 62 36 ; SWC TDR 62 36  
SUJO: 4-820-400 ; 4-854-000 ; 4-855-000  
TEMP: 27158  
TITL: BUNKER DESIGN AND INSTRUMENT LAYOUT FOR TRANSIENT RADIATION EFFECTS  
STUDIES INA NUCLEAR ENVIRONMENT (U), 41 P (SRD)

TREE: 641  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 01043  
AUTH: GAUVIN H.P. ; CAHILL J.P. ; SCANLON R. ; DAVIDSON G. ; CARPENTER  
R.O. ; KOFKYI. ; GATES D.  
CLSS: SRD 1  
CORP: DEFENSE ATOMIC SUPPORT AGENCY (ALBUQUERQUE-NM)  
DATE: 6204  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry  
general descriptions L1  
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray  
L1  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
DESC: Nuclear RDT&E Research Program Descriptions x-ray effects L1  
DESC: test instruments IR L1

DESC: Nuclear Test Simulation Field Programs experiment design aerospace  
systems L5  
DESC: PRETEST REPORT ; THEORY  
DESC: Nuclear Test Simulation Field Programs experiment design optical  
radiation experiments UV visible IR L5  
PROJ: 8A.1  
SHOT: BLUEGILL ; STARFISH  
TSHO: HI-ALT  
SUJO: 2-211-000 ; 2-311-000 ; 2-312-400 ; 4-130-000 ; 4-383-000 ;  
4-820-600 ; 4-829-100  
TEMP: 27213  
TITL: HIGH ALTITUDE NUCLEAR DETONATION OPTICAL/INFRARED EFFECTS, OPERATION  
FISH BOWL, PRE-TEST REPORT, PROJECT 8A.1 (U), 119 P (SRD)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 01044  
AUTH: HANSEN D.F. ; SHULER M.P.  
CLSS: SRD 1  
CORP: E G AND G INCORPORATED (BOSTON-MA)  
DATE: 6205  
DESC: PRETEST REPORT  
DESC: Nuclear Test Simulation Field Programs experiment design photography

L1

DESC: Nuclear Test Simulation Field Programs experiment design optical  
radiation experiments UV visible IR L1  
REPN: EGG B 2432  
PROJ: 8A.2  
SHOT: BLUEGILL ; STARFISH  
TSHO: HI-ALT  
SUJO: 4-820-600 ; 4-826-000  
TEMP: 27212  
TITL: OPTICAL PHENOMENOLOGY OF HIGH-ALTITUDE NUCLEAR DETONATIONS,  
OPERATION FISHBOWL, PRE-TEST REPORT, PROJECT 8A.2 (U), 47 P (SRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 01045  
AUTH: ADAMS F.D. ; ANNIS M. ; ANDERSON O.R. ; ASHLEY L. ; CARPENTER J.W. ;  
CICERO A.B. ; COBB C.M. ; DE CAPRIO A.R. ; FAHRENHOLZ F.E. ;  
FRYKLUND G.G. ; VRABLIK G.R. ; WILFERT A. ; CLARK G.W. ; WATSON B. ;  
ZOTOS J.

CLSS: SRD 1  
CORP: AIR FORCE AERONAUTICAL SYSTEMS DIVISION (WRIGHT-PATTERSON AFB-OH) ;  
AMERICAN SCIENCE AND ENGINEERING INCORPORATED (CAMBRIDGE-MA) ;  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY (CAMBRIDGE-MA) ; HARVARD  
UNIVERSITY (BOSTON-MA) ; NORTHEASTERN UNIVERSITY (BOSTON-MA)  
DATE: 6200  
DESC: Nuclear Test Simulation Field Programs experiment design aerospace  
systems L5  
DESC: Nuclear Test Simulation Field Programs experiment design materials  
L5  
DESC: Nuclear Test Simulation Field Programs experiment design rocket  
probe sounding rocket descriptions balloons L5  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1  
DESC: Nuclear Test Simulation Field Programs experiment design x-ray  
experiments L5  
DESC: PRETEST REPORT  
PROJ: 8A.3  
SHOT: BLUEGILL ; STARFISH  
TSHO: HI-ALT  
SUJO: 1-240-000 ; 1-620-000 ; 4-820-500 ; 4-820-900 ; 4-829-100 ;  
4-829-600  
TEMP: 27211  
TITL: STRUCTURAL RESPONSE TO THERMAL RADIATION FROM A HIGH ALTITUDE  
FIREBALL, OPERATION FISHBOWL, SHOT BLUEGILL, PRE-TEST REPORT,  
PROJECT 8A.3 (U), 86 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 01093  
ADNO: 328749  
AUTH: SANFORD J.R.  
CLSS: U  
CONN: AF 33 (616) 7384  
CORP: GENERAL ELECTRIC COMPANY/ADVANCED ELECTRONICS CENTER (ITHACA-NY) ;  
AIR FORCE/NAVIGATION & GUIDANCE LABORATORY(WRIGHT PATTERSON-OH)  
DATE: 6112  
DESC: Nuclear Weapon Effects materials plastics resins L1  
DESC: ignition flammability ablation L1  
DESC: Nuclear Weapon Effects materials metals alloys L1 CARBON STEEL  
STAINLESS STEEL MAGNESIUM ALUMINUM COPPER IRON TITANIUM CHROMIUM  
NICKEL SILVER BERYLLIUM CADMIUM TIN ZINC LEAD MOLYBDENUM TUNGSTEN  
GOLD PLATINUM TANTALUM  
DESC: X-RAY ; THEORY  
DESC: equation of state heat of vaporization thermal conductivity opacity  
L1  
DESC: Nuclear Weapon Effects ordnance explosives L1  
DESC: Nuclear Weapon Effects materials wood paper cellulose films L1



REPN: ASD TDR 62 86 VOL 4 ; CH CPR 863 VOL 4  
SUJO: 3-163-000 ; 3-243-000 ; 3-244-000 ; 3-246-000 ; 9-710-000 ;  
9-730-000

TEMP: 27554

TITL: RADIATION WEAPON EQUATIONS AND PARAMETERS, VOLUME FOUR DAMAGE  
MECHANISMS AND WEAPON EFFECTIVENESS (U), 202 P (S)

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copy: 1 id: 38028-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 01097

AUTH: POLL R.A. ; VAN LINT V.A.J.

CLSS: U

CONN: AF 29 (601) 4953

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6206

DESC: Nuclear Weapon Effects materials ceramics optical L1 QUARTZ

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices

sensors detectors L1 PRESSURE TRANSDUCERS

DESC: NUCLEAR RADIATION TRANSIENTS CONVENTIONAL SIMULATION ; EXPERIMENTAL

REPN: AFSWC TDR 62 63 ; SWC TDR 62 63

SUJO: 3-224-000 ; 3-231-000 ; 3-241-000

TITL: TRANSIENT RADIATION EFFECTS IN PRESSURE TRANSDUCERS (U), 65 P (U)

TREE: 363

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copy: 1 id: 38031-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01101

AUTH: VAN LINT V.A.J. ; ROES J. ; WILLIS D.E.

CLSS: U

CONN: AF 29 (601) 2818

CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CA) ; AIR FORCE/WEAPONS  
LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6206

DESC: GAMMA TRANSIENTS CONVENTIONAL SIMULATION ; EXPERIMENTAL THEORY

DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L5 APPENDIX A

REPN: AFSWC TDR 62 29 ; SWC TDR 62 29

SUJO: 3-221-000 ; 3-223-000

TEMP: 27440

TITL: EFFECT OF PULSED GAMMA RADIATION ON INFRARED DETECTORS (U), 75 P (U)

TREE: 361

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01101SUPPL

AUTH: VAN LINT V.A.J. ; ROES J. ; WILLIS D.E.

CLSS: U

CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CA) ; AIR FORCE/WEAPONS  
LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6206

DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1

DESC: GAMMA TRANSIENTS CONVENTIONAL SIMULATION ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic subsystems guidance control L1

REPN: AFSWC TDR 62 29 SUPPL ; SWC TDR 62 29 SUPPL

SUJO: 3-211-000 ; 3-223-000

TEMP: 27440 SUPPL.

TITL: EFFECT OF PULSED GAMMA RADIATION ON INFRARED DETECTORS, SUPPLEMENT  
(U), 50 P (S)

TREE: 361

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copy: 1 id: 38033-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01124

AUTH: HAMMAN D.J. ; WYLER E.N. ; CHAPIN W.E. ; VEAZIE W.H. JR. ; SHOBER  
F.R. ; REID F.J. ; KALADOW J. ; REDMOND R. ; GILLETTE H.C. ; WORLS  
E.G.

CLSS: U

CONN: AF 33 (616) 7375

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)

DATE: 6206

DESC: Nuclear Weapon Effects materials plastics resins L1

DESC: Nuclear Weapon Effects materials ceramics optical L1

DESC: Nuclear Weapon Effects materials carbon L1

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices  
sensors detectors L1

DESC: Nuclear Weapon Effects materials metals alloys L1

DESC: NUCLEAR RADIATION PERMANENT DAMAGE ; SURVEY

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1

REPN: REIC 24

SUJO: 3-221-000 ; 3-224-000 ; 3-229-000 ; 3-231-000 ; 3-241-000 ;  
3-243-000 ; 3-244-000 ; 3-248-000 ; 5-800-000

TITL: RADIATION EFFECTS STATE OF THE ART, 1961-1962 (U), 94 P (U)

TREE: 300

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01124

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copy: 1 id: 38035-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01143

CLSS: U

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)

DATE: 6203

DESC: SURVEY

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability  
L1

REPN: REIC MEMO 10 C

SUJO: 4-140-000 ; 4-170-000

TEMP: 25742

TITL: NUCLEAR RADIATION EFFECTS PROJECTS (U), 82 P (U)

TREE: 642

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copy: 1 id: 38037-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01154

AUTH: SANFORD J.R.

CLSS: C 3

CONN: AF 33 (616) 7384

CORP: GENERAL ELECTRIC COMPANY/ADVANCED ELECTRONICS CENTER (ITHACA-NY) ;  
AIR FORCE/NAVIGATION + GUIDANCE LABORATORY (WRIGHT-PATTERSON-OH)

DATE: 6112

DESC: Simulation Facilities Techniques EMP L1

REPN: ASD TDR 62 36 V2 ; ASD TDR 62 86 V.2

SUJO: 4-271-000

TEMP: 27628

TITL: RADIATION WEAPON EQUATIONS AND PARAMETERS, VOLUME TWO ENERGY SOURCES  
(U), 89P (C)

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copy: 1 id: 38043-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 01155  
ADNO: 328746  
AUTH: SANFORD J.R.  
CLSS: S 3  
CONN: AF 33 (616) 7384  
CORP: GENERAL ELECTRIC COMPANY/ADVANCED ELECTRONICS CENTER (ITHACA-NY) ;  
AIR FORCE/NAVIGATION + GUIDANCE LABORATORY (WRIGHT-PATTERSON-OH)  
DATE: 6112  
DESC: Simulation Facilities Techniques EMP L1  
REPN: ASD TDR 62 86 1 ; CH CPR 863 1  
SUJO: 4-271-000  
TEMP: 27626  
TITL: RADIATION WEAPON EQUATIONS AND PARAMETERS, VOLUME ONE-PROGRAM RESUME  
(U), 32 P (S)

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copy: 1 id: 38044-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 01186  
AUTH: CAHILL J.P. ; GAUVIN H.P. ; JOHNSON J.C.  
CLSS: U  
CORP: AIR FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MA)  
DATE: 6204  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1  
DESC: Nuclear Weapon Environment Thermal Output L1 TRANSMISSION FACTORS  
DESC: THEORY  
REPN: AFCRL 62 456  
TSHO: SURFACE ; LOW ALT  
SUJO: 1-200-000 ; 5-200-000  
TITL: EFFECTIVE TRANSMISSION OF THERMAL RADIATION FROM NUCLEAR DETONATIONS  
REAL ATMOSPHERES (U), 72 P, (U)

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01186

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copy: 1 id: 38050-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 01208  
ADNO: 365378

AUTH: MORGAN D.T. ; BOLGER J.C. ; WASSIL G.N. ; BIXLER H.J.  
CLSS: SRD 1  
CONN: AF 29 (601) 4526  
CORP: AVCO CORPORATION (WILMINGTON-MA) ; AIR FORCE/WEAPONS LABORATORY  
(KIRTLAND AIR FORCE BASE-NM)  
DATE: 6209  
DESC: Nuclear Weapon Effects materials plastics resins L1 CHOPPED NYLON  
PHENOLIC  
DESC: Nuclear Weapon Effects reentry systems RV L1 HEAT SHIELD  
DESC: X-RAY NUCLEAR RADIATION PERMANENT DAMAGE CONVENTIONAL SIMULATION ;  
EXPERIMENTAL  
REPN: AFSWC TDR 62 70 ; SWC TDR 62 70 ; RAD TR 62 38  
SUJO: 3-113-000 ; 3-244-000  
TEMP: 27966  
TITL: LATE-TIME EFFECTS OF X-RAYS ON HEAT-SHIELD MATERIALS (U), 136 P  
(SRD)

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01208

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copy: 1 id: 38061-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01236

AUTH: HENDRICK R.W. JR.

CLSS: U

CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)

DATE: 6211

DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1  
ELECTRONS

DESC: THEORY

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1

REPN: SP 202

SUJO: 2-217-000 ; 5-800-000

TITL: OMNIDIRECTIONAL FLUX FROM BETA-RAY SOURCE (U), 8 P (U)

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copy: 1 id: 38071-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 01237

AUTH: TORREY M.

CLSS: U

CCDE: TECH OPS 2D HYDRO

CORP: TECHNICAL OPERATIONS, INC. (BURLINGTON, MASS.)

DATE: 6211

DESC: Radiation Transport gamma L5

DESC: Nuclear Weapon Phenomenology Fireball Chemistry L5  
REPN: TO B 62 72  
SUJO: 2-160-000 ; 9-620-000  
TITL: STUDY OF BOMB DEBRIS EFFECTS, FIRST PROGRESS REPORT (14 SEPTEMBER TO  
30 OCTOBER 1962) (U), 5 P., (U)

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01237  
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copy: 1 id: 38072-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 01245  
AUTH: BADE W.L. ; YOS J.M. ; AVERELL J.P.  
CLSS: SRD 1  
CCDE: ZZ(BLOWOFF, IMPULSE PHENOMENA, PULSE MOMENTUM)  
CONN: AF 29 (601) 4525  
CORP: AVCO CORPORATION (WILMINGTON-MA) ; AIR FORCE/WEAPONS LABORATORY  
(KIRTLAND AIR FORCE BASE-NM)

DATE: 6210  
DESC: Nuclear Weapon Effects materials metals alloys L1 ALUMINUM BERYLLIUM  
GOLD

DESC: Nuclear Weapon Effects materials plastics resins L1  
DESC: RV MATERIALS X-RAY NUCLEAR RADIATION PERMANENT DAMAGE ; THEORY CODE  
REPN: AFSWC TDR 62 92 ; SWC TDR 62 92  
SUJO: 3-243-000 ; 3-244-000  
TEMP: 29246  
TITL: ANALYTICAL THEORY OF X-RAY EFFECTS, FINAL REPORT (U), 423 P (SRD)

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01245  
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copy: 1 id: 38075-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 01256  
ADNO: 339847  
AUTH: CICERO A.B. ; FRYKLUND G.G. ; TAYLOR J.R.  
CLSS: SRD 1  
CONN: AF 33 (616) 7540  
CORP: AMERICAN SCIENCE AND ENGINEERING INCORPORATED (CAMBRIDGE-MA) ; AIR  
FORCE/FLIGHT DYNAMICS LABORATORY (WRIGHT-PATTERSON AFB-OH)

DATE: 6208  
DESC: Nuclear RDT&E Research Program Descriptions x-ray effects L1  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear RDT&E Research Program Descriptions thermal optical L1  
DESC: INTERMEDIATE RANGE OBSERVATION THERMAL  
DESC: Nuclear Weapon Effects materials metals alloys L1  
DESC: Nuclear Weapon Environment X-ray Output source strength total

intensity L1

DESC: Nuclear Weapon Effects materials plastics resins L9 P 105

REPN: ASD TR 61 230

SHOT: TEAK ; SMOKY

TSHO: HI-ALT ; LOW-ALT

SUJO: 1-210-000 ; 1-610-000 ; 3-243-000 ; 3-244-000 ; 4-130-000 ;

4-180-000

TEMP: 29197

TITL: THERMAL AND X-RADIATION MEASUREMENTS IN THE SHOT TEAK FIREBALL (U),

109 P (SRD)

TREE: 930

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01256

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copy: 1 id: 38077-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01269

AUTH: BALSER M. ; PANNELL J.H.

CLSS: SFRD 1

CONN: AF 19 (628) 500

CORP: LINCOLN LABORATORY (LEXINGTON-MA)

DATE: 6211

DESC: PALMYRA ISLAND ; EXPERIMENTAL

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

REPN: PA 21 2 (BMRS)

SHOT: STARFISH

TSHO: HI-ALT

SUJO: 2-510-000

TEMP: 29333

TITL: SYNCHROTRON RADIATION FROM STAR FISH PRIME, OPERATION FISH BOWL (U),

40 P (SFRD)

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01269

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copy: 1 id: 38082-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01302

AUTH: TAMARKIN P.

CLSS: SRD 1

CONN: AF 49 (638) 500

CORP: RAND CORPORATION (SANTA MONICA-CA)

DATE: 5901

DESC: Nuclear Weapon Effects EM Propagation reflection clutter fireball

disturbed ionosphere L1

DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1

DESC: QUICK KEY ; SURVEY

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1  
DESC: radio microwave propagation abnormal conditions auroral disturbances  
sudden ionospheric disturbances SID polar cap absorptions PCA solar  
eclipse L1  
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1  
REPN: R 334 ARPA ; QUICK KEY R 5  
SHOT: TEAK ; ORANGE  
TSHO: HI-ALT  
SUJO: 2-321-100 ; 2-321-310 ; 2-420-000 ; 2-510-000 ; 5-738-000 ;  
5-800-000  
TEMP: 21646  
TITL: SUMMARY OF PROJECT QUICK KEY ACTIVITIES (U), CIRCA 400 P (SRD)

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01302  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 01309  
AUTH: CICERO A.B. ; TAYLOR J.R.  
CLSS: SRD 1  
CONN: DA 19 020 ORD 5377  
CORP: AMERICAN SCIENCE AND ENGINEERING INCORPORATED (CAMBRIDGE-MA)  
DATE: 6209  
DESC: Cross Sections x-ray L1  
DESC: Radiation Transport x-ray L1  
DESC: Solid Mechanics L1  
DESC: X-RAY ; THEORY  
DESC: Nuclear Weapon Effects reentry systems RV L1  
REPN: ASE 275  
TSHO: HI-ALT  
SUJO: 3-113-000 ; 9-200-000 ; 9-640-000 ; 9-840-000  
TEMP: 29437  
TITL: EARLY RADIATION EMITTED BY A FIREBALL IN THE INTERMEDIATE ALTITUDE  
RANGE AND THE INDUCED STRUCTURAL LOADINGS (U), 179 P (SRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 01393  
AUTH: GRAN W.M.  
CLSS: SFRD 1  
CONN: AF 33 (657) 8438  
CORP: COOK TECHNOLOGICAL CENTER (MORTON GROVE-IL) ; AIR FORCE/AERONAUTICAL



SYSTEMS DIVISION (WRIGHT-PATTERSON AFB-OH)

DATE: 6212  
EFFT: air-blast; thermal  
DESC: Nuclear Weapon Effects flight systems airplanes L1  
DESC: Nuclear Weapon Environment Airblast static overpressure L1 Weapon  
Output Thermal L1  
REPN: ASD TDR 62 823 ; 62 ASWKS 746  
SHOT: QUESTA ; AZTEC ; MESILLA ; ENCINO ; NAMBE ; ALMA ; YESO ; RINCONADA  
; BIGHORN  
TSHO: LOW-ALT  
SUJO: 2-611-000 ; 3-111-000 ; 4-829-100 ; 1-210-000 ; 1-240-000  
TEMP: 31057  
TITL: THERMAL RADIATION FROM AIR BURST NUCLEAR WEAPONS INCIDENT ON  
LOW-ALTITUDE AIRCRAFT (U), 260 P (SFRD)

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copy: 1 id: 38120-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 01593  
AUTH: MCEVOY R.W. ; HORTON B.M.  
CLSS: U  
CONN: DA 49 186 ORD 1005  
CORP: GD/GENERAL ATOMIC DIVISION (LA JOLLA-CA)  
DATE: 6210  
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources L1  
DESC: SUMMARY  
SUJO: 4-241-000  
TITL: HAZARDS SUMMARY REPORT, DIAMOND ORDNANCE RADIATION FACILITY (U),  
CIRCA 300 P, (U)

TREE: 642

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01593

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copy: 1 id: 38218-1001 library: DOCUMENT price: \$.00  
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created: 12/27/1991 type: REPORT permanent

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INUM: 01665  
AUTH: KARZAS W.J. ; LATTER R.  
CLSS: U  
CORP: RAND CORPORATION (SANTA MONICA-CA)  
DATE: 6110  
DESC: THEORY  
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1  
DESC: nuclear test detection EMP earth current detection L1  
REPN: RM 2849 AFT

TSHO: HI-ALT  
SUJO: 2-510-000 ; 4-914-000  
TITL: ELECTROMAGNETIC RADIATION FROM A NUCLEAR EXPLOSION IN SPACE (U),  
MEMORANDUM, 33 P, (U)

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01665  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 01687  
AUTH: WOUTERS L.F.  
CLSS: SRD  
CORP: UNIVERSITY OF CALIFORNIA, LAWRENCE RADIATION LABORATORY (LIVERMORE,  
CA.)

DATE: 6210  
DESC: Nuclear Test Simulation Field Programs experiment design EMP earth  
currents geomagnetic effects L5

DESC: SUMMARY  
EMPF: 600  
REPN: COPAC 62 61  
TSHO: SURFACE  
SUJO: 4-824-000  
TEMP: 35402  
TITL: EMP TEST CRITERIA (U), 5 P, (SRD)

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copy: 1 id: 38259-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 01689  
AUTH: BLIZARD E.P. ; COOK T.B. ; HARRIS P.S. ; LATTER A.L. ; LEONARD B.P.  
; SUSSHOLZB.  
CLSS: SRD  
CONN: AF 04 647 309  
CORP: SPACE TECHNOLOGY LABORATORIES INCORPORATED (LOS ANGELES-CA)  
DATE: 5912  
DESC: INTEGRATED EFFECTS BLAST AND SHOCK RADIATION ; SUMMARY  
DESC: Nuclear Weapon Effects structures hard launch sites materials L1  
DESC: Nuclear Weapon Effects Communications Systems C4 hardware L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L5  
DESC: Nuclear Weapon Effects electronic pieceparts L5  
REPN: STL TR 59 0000 00735 ; AFBMD TR 59 22  
SUJO: 3-116-200 ; 3-130-000 ; 3-220-000 ; 3-312-100 ; 3-312-200  
TEMP: 35416  
TITL: NUCLEAR RADIATION CRITERIA FOR HARDENED ICBM SYSTEMS (U), 105 P,

(SRD)

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copy: 1 id: 38261-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 01693

AUTH: MALIK J.

CLSS: SRD

CONN: W 7405 ENG 36

CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)

DATE: 6106

DESC: EXPERIMENTAL THEORY SURVEY

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

EMPF: 223 ; 222 ; 213

REPN: LAMS 2606

SHOT: PRISCILLA ; HOOD ; OWENS ; WILSON

TSHO: LOW-ALT ; SURFACE ; WATER SURFACE

SUJO: 2-510-000

TEMP: 35376

TITL: NOTES ON ELECTROMAGNETIC RADIATION (U), 39 P, (SRD)

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copy: 1 id: 38265-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01697

AUTH: GOLDBERG P.A.

CLSS: SRD 1

CONN: AF 49 638 700

CORP: RAND CORPORATION (SANTA MONICA-CA)

DATE: 6203

DESC: SUMMARY THEORY

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

SCALING

DESC: Nuclear Weapon Effects Military Systems L1 EMP SCALING OF HARDENED

SYSTEMS

EMPF: 300

REPN: RM 3028 PR

SUJO: 2-510-000 ; 3-100-000

TEMP: 35421

TITL: ON CRITERIA OF VULNERABILITY OF PHYSICAL SYSTEMS TO NEMR--THE  
ELECTROMAGNETIC RADIATION FROM NUCLEAR DETONATIONS (U), 41 P., (SRD)

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01697

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copy: 1 id: 38268-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 01720  
AUTH: GIFFELS C.A. ; STERN R.A.  
CLSS: SRD 1  
CORP: BELL TELEPHONE LABORATORIES (WHIPPANY-NJ)  
DATE: 6109  
DESC: SUMMARY  
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1  
MODEL SURVEY  
EMPF: 222  
REPN: BTL MM 61 4261 10  
TSHO: LOW-ALT  
SUJO: 2-510-000  
TEMP: 35552  
TTTL: R.F. RADIATION FROM A NUCLEAR DETONATION -A SURVEY OF OBSERVATIONS  
AND PROPOSED MODELS, CASE 27495-41 (U), 20 P (SRD)

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01720  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 01789  
ADNO: 216691  
CLSS: U  
CONN: AF 603 100  
CORP: UNIVERSITY OF UTAH  
DATE: 5903  
DESC: EXPERIMENTAL  
DESC: Simulation Facilities Techniques blast shock high explosives L1  
REPN: AFOSR TN 59 551  
SUJO: 4-216-300  
TTTL: ELECTRICAL FIELDS AND ELECTROMAGNETIC RADIATION FROM CHEMICAL  
EXPLOSIONS (U), 53 P, (U)

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01789  
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copy: 1 id: 38346-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 01863  
AUTH: STUBBS H.E.  
CLSS: U

CONN: AF 29 601 2606  
CORP: GEOPHYSICS CORPORATION OF AMERICA (BEDFORD-MA)  
DATE: 6105  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
DESC: Nuclear Weapon Phenomenology High-Altitude auroras L1  
DESC: Nuclear Weapon Environment Airblast static overpressure ARRIVAL  
TIME.L1  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry  
general descriptions L1  
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1  
DESC: Nuclear Weapon Effects meteorological Atmospheric Heating HEATING  
DESC: nuclear test detection infrared detection L1  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow  
fluorescence L1  
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray  
L1  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1  
REPN: AFCRL 474  
SHOT: TEAK  
TSHO: HI-ALT  
SUJO: 2-110-000 ; 2-160-000 ; 2-211-000 ; 2-214-000 ; 2-215-000 ;  
2-311-000 ; 2-312-400 ; 2-611-000 ; 2-730-000 ; 4-910-500 ;  
5-200-000  
TEMP: 37575  
TITL: INFRARED RADIATION GENERATED BY A NUCLEAR DETONATION (U), 280 P (S)

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01863

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copy: 1 id: 38395-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 01864  
AUTH: ENGELMAN A.  
CLSS: SRD  
CONN: DA 19 020 ORD 5357  
CORP: GEOPHYSICS CORPORATION OF AMERICA (BEDFORD-MA)  
DATE: 6212  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1  
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry  
general descriptions L1  
DESC: Composition Chemistry Atmosphere Reaction Rates L1

DESC: THEORY EXPERIMENTAL  
REPN: GCA 63 1 G  
SHOT: KINGFISH ; BLUEGILL  
TSHO: HI-ALT  
SUJO: 2-211-000 ; 2-212-000 ; 2-311-000 ; 2-321-100 ; 2-420-000 ;  
5-400-000 ; 5-800-000

TEMP: 37576  
TITL: OPTICAL EFFECTS STUDY (U), 89 P (S)

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01864  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 02018  
ADNO: 419652  
AUTH: HOCK D.C.  
CLSS: U  
CONN: AF 601 2348  
CORP: RADIATION INCORPORATED (PALO ALTO-CA)  
DATE: 6009  
DESC: SUMMARY  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1

REPN: PROGRESS REPORT 2  
SUJO: 5-800-000  
TITL: THEORETICAL STUDY OF THE USEFULNESS OF MEASUREMENTS OF VAN ALLEN  
RADIATION WITH RESPECT TO ARGUS, QUARTERLY PROGRESS REPORT (U), 18 P  
(U)

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copy: 1 id: 38524-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 02106  
AUTH: RICH J.C.  
CLSS: U  
CORP: AIR FORCE/SPECIAL WEAPONS CENTER (KIRTLAND AFB-NM)  
DATE: 6105  
DESC: Fluid Mechanics L1  
DESC: THEORY ; THEORY  
REPN: AFSWC TN 61 29 PT 1  
SUJO: 9-400-000  
SYMJ: CONTAINED IN AFSWC SECOND HYDRODYNAMIC CONFERENCE, NUMERICAL METHODS  
OF FLUID FLOW PROBLEMS, MAY 16-18, 1961

TITL: PROBLEMS OF RADIATION TRANSPORT IN HEATED AIR (U), 13 P (U)  
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02106

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copy: 1 id: 38574-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02106-2P46  
AUTH: LOOMIS C.C.  
CLSS: SRD 1  
CCDE: SPUTTER  
CORP: GULF GENERAL ATOMIC (SAN DIEGO-CA)  
DATE: 6105  
DESC: Fluid Mechanics hydrodynamics L1  
DESC: Radiation Transport L1  
DESC: THEORY  
SUJO: 9-410-000 ; 9-600-000  
SYMJ: AFSWC SECOND HYDRO DYNAMIC CONFERENCE, PART 2, MAY 1961  
TEMP: 39333 PART 2  
TITL: FLUID DYNAMICS AND RADIATION FLOW IN THE SPUTTER CODE (U), 10 P  
(SRD)

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02106-2P46

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created: 12/27/1991 type: REPORT permanent

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INUM: 02106-2P57  
AUTH: FREEMAN B.E.  
CLSS: SRD 1  
CCDE: SHELL  
CORP: GENERAL ATOMIC  
DATE: 6105  
DESC: Fluid Mechanics hydrodynamics L5  
DESC: Radiation Transport L5  
DESC: THEORY  
SUJO: 9-410-000 ; 9-600-000  
SYMJ: AFSWC SECOND HYDRODYNAMIC CONFERENCE, PART 2, MAY 1961  
TEMP: 39333 PART 2  
TITL: CLASSIFIED TITLE (SRD), 6 P (SRD)

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02106-2P57

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copy: 1 id: 38590-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02106-125

AUTH: LANDSHOFF R.K.M. ; MEYEROTT R.E.  
CLSS: U  
CORP: LOCKHEED MISSILES AND SPACE DIV  
DATE: 6105  
DESC: THEORY  
DESC: Radiation Transport thermal AIR  
REPN: TN 61 29  
SUJO: 9-610-000  
SYMJ: CONTAINED IN AFSWC SECOND HYDRODYNAMIC CONFERENCE, NUMERICAL METHODS  
OF FLUID FLOW PROBLEMS, MAY 16-18, 1961  
TITL: PROBLEMS OF RADIATION TRANSPORT IN HEATED AIR (U), 13 P (U)

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02106-125

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02106-139  
AUTH: GRANDEY R.A.  
CLSS: U  
CORP: AERONUTRONIC DIV  
DATE: 6105  
DESC: Fluid Mechanics hydrodynamics L1  
DESC: Radiation Transport L5  
DESC: THEORY  
REPN: TN 61 29  
SUJO: 9-410-000 ; 9-600-000  
SYMJ: CONTAINED IN AFSWC SECOND HYDRODYNAMIC CONFERENCE, NUMERICAL METHODS  
OF FLUIDSFLOW PROBLEMS, MAY 16-18, 1961  
TITL: NUMERICAL METHODS FOR HYDRODYNAMICS WITH RADIATION TRANSPORT (U), 11  
P (U)

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02106-139

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02110  
ADNO: 366873  
AUTH: PEDERSEN H.N. ; ZABINSKI E. ; HALL G.A.  
CLSS: SRD  
CONN: AF 29 601 2831  
CORP: AIR FORCE/SPECIAL WEAPONS CENTER (KIRTLAND AFB-NM)  
DATE: 6110  
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1 IR  
DESC: SIMULATION (CARBON ARC) ; EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5  
DESC: Nuclear Weapon Environment Thermal Output L5



DESC: Simulation Facilities Techniques thermal optical L1  
DESC: Radiation Transport thermal L5 AIR  
REPN: SWC TR 61 78 ; AFSWC TR 61 78  
TSHO: LOW-ALT ; HI-ALT  
SUJO: 1-200-000 ; 2-110-000 ; 3-211-000 ; 4-280-000 ; 9-610-000  
TEMP: 39396  
TITL: RESPONSES OF MILITARY INFRARED SYSTEMS TO THERMAL IRRADIATION FROM  
NUCLEAR WEAPONS, FINAL REPORT (U), 201 P, (SRD)

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02110

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copy: 1 id: 38595-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02114  
AUTH: SHELTON F.H. ; SACHS D.C. ; ELLIS P.A.  
CLSS: SRD 1  
CONN: N60921 701  
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)  
DATE: 6212  
DESC: Nuclear weapon test burn performance L9 P6  
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE.L5  
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray  
L5 ORANGE BLUE GILL  
DESC: Radiation Transport x-ray L5  
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature  
Density Particle Velocities L1  
DESC: Nuclear weapon test yield L9 P2  
DESC: EXPERIMENTAL PREDICTIONS ; EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy  
Coupling L1  
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9 P2  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
RADIAL EXPANSION  
REPN: KN 677 62 6  
SHOT: YUCCA ; ORANGE ; BLUE GILL  
SUJO: 2-110-000 ; 2-130-000 ; 2-150-000 ; 2-312-400 ; 2-612-000 ;  
4-835-000 ; 4-837-000 ; 4-841-000 ; 9-640-000  
TEMP: 39433  
TITL: COMPUTED BLAST FORMATION FOR SEVERAL HIGH ALTITUDE NUCLEAR  
DETONATIONS (U), 51P, (SRD)

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02114

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02119

AUTH: COLGATE S.A.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6010  
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry initial  
gamma L5  
DESC: THEORY  
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic  
Perturbations L1  
REPN: UCRL 6189  
SUJO: 2-312-200 ; 2-530-000  
TITL: NEAR MAGNETIC INDUCTION SIGNAL FROM A NUCLEAR EXPLOSION DUE TO  
MOVEMENT OF THEEARTHS MAGNETIC FIELD (U), 5 P, (U)

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02119

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copy: 1 id: 38603-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02134  
AUTH: BOTH E. ; BRUEMMER H.P. ; SCHLOSSER W.  
CLSS: U  
CORP: ARMY/ELECTRONICS RESEARCH AND DEVELOPMENT LABORATORY (FT  
MONMOUTH-NJ)  
DATE: 6209  
DESC: SIMULATION (PULSE REACTOR) EMP RF ; EXPERIMENTAL  
DESC: Nuclear Test Simulation Field Programs experiment design electrical  
electronic cable noise instrumentation links L5 CABLES  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
REPN: TR 2313  
SUJO: 3-231-000 ; 4-829-500  
TITL: TRANSIENTS INDUCED IN ELECTRICAL CABLES BY NUCLEAR RADIATION PULSES  
(U), 29 P,(U)

TREE: 390

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02134

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copy: 1 id: 38613-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02146  
ADNO: 338208  
AUTH: SHAW C.B.  
CLSS: SRD 1  
CONN: AF 29 601 2370  
CORP: HUGHES RESEARCH LABORATORIES (MALIBU-CA)  
DATE: 6012

DESC: THEORY  
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic  
Perturbations L1  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1  
DESC: Electromagnetic Theory Applications L1  
REPN: SDN 128003/30  
SUJO: 2-530-000 ; 5-800-000 ; 9-300-000  
TEMP: 39522  
TITL: STUDY OF RELATIVISTIC ELECTRONNS TRAPPED IN THE EARTHS MAGNETIC  
FIELD, FINAL REPORT(U), 42 P, (SRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02156  
AUTH: RAINEY S.C. ; SHNIDER R.W.  
CLSS: SFRD  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6204  
DESC: Nuclear Weapon Effects on animals blast shock pressure L1  
DESC: thermal protection L9  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
FALLOUT GAMMA NEUTRON  
DESC: Nuclear Weapon Effects on animals thermal burns heating L1  
DESC: PERSONNEL SAFETY ; HANDBOOK  
REPN: USNRDL TR 552  
TSHO: LOW ALT ; WATER SURFACE  
SUJO: 2-225-100 ; 3-311-100 ; 3-312-100 ; 3-313-100 ; 9-870-000  
TEMP: 39611  
TITL: PRELIMINARY WEAPONS EFFECTS PREDICTIONS FOR AEC DIAGNOSTIC WEAPONS  
TEST SERIES( 42 P, (SFRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02221  
ADNO: 343490  
AUTH: DRELL S.D. ; RUDERMAN M.A.  
CLSS: U  
CORP: INSTITUTE FOR DEFENSE ANALYSIS (WASHINGTON-DC)  
DATE: 6007  
DESC: Nuclear Weapon Environment Infrared Output source strength total

intensity L1

DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow  
fluorescence L1

DESC: THEORY

TSHO: HI-ALT

SUJO: 1-310-000 ; 2-214-000

TEMP: 39762

TITL: INFRARED RADIATION FROM THE ATMOSPHERE RESULTING FROM BOMB BURST  
(U), 35 P, (C)

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02221

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copy: 1 id: 38683-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 02225

ADNO: 341261

AUTH: SHELTON F.H. ; HOFFMAN J.R. ; CONNORS R.J.

CLSS: SRD

CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)

DATE: 6005

DESC: Nuclear Weapon Effects materials metals alloys L1 X-RAY BE C AL FE

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5

DESC: Cross Sections x-ray L1 LOW Z METALS

DESC: Nuclear Weapon Environment X-ray Output source strength total  
intensity L5

DESC: Solid Mechanics L9 P 89 TENSIL PROPERTIES OF LOW Z METALS

DESC: Nuclear Weapon Effects reentry systems RV L1 X-RAY

DESC: SUMMARY

DESC: Nuclear Weapon Effects materials plastics resins L1 TEFLON  
POLYETHYLENE XRAY

DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy  
Coupling L9 TN ENERGY PARTITION P8

DESC: Radiation Transport x-ray L1 AIR

REPN: KN 154 60 3

SUJO: 1-610-000 ; 1-620-000 ; 2-150-000 ; 3-113-000 ; 3-243-000 ;  
3-244-000 ; 9-200-000 ; 9-640-000 ; 9-840-000

TEMP: 39761

TITL: X-RAYS AND THEIR EFFECTS (U), 169 P, (SRD)

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copy: 1 id: 38686-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: 02232

ABS: The intent of this report is to summarize our state of knowledge  
regarding the effectiveness of special warheads. It deals with a

warhead radiation yield characteristics and transmission through the atmosphere, and also the penetration of the radiation through structures and the effect on people.

AUTH: LESSLER R.M.  
CLSS: SRD  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6110  
DESC: THEORY  
DESC: Radiation Transport neutron L5 AIR  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5  
DESC: Cross Sections gamma L9 SOIL P 14  
DESC: Nuclear Warfare Theater operations scenarios battlefield environment  
L1 ER WEAPONS  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total fluence L5  
DESC: Nuclear Weapon Effects on animals blast shock L5  
REPN: UCRL 06667  
SUJO: 1-110-000 ; 3-311-000 ; 3-312-100 ; 3-411-200 ; 9-650-000 ;  
9-830-000  
TEMP: 39805  
TITL: CLASSIFIED TITLE (U) 31 P, (SRD)  
TNFF: 4805

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created: 12/27/1991 type: REPORT permanent  
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INUM: 02233  
AUTH: KILLEEN J.  
CLSS: SRD 1  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 5904  
DESC: THEORY  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1  
REPN: UCRL 5640  
SHOT: TEAK ; ORANGE ; ARGUS I  
TSHO: HI-ALT  
SUJO: 2-217-000  
TEMP: 39803  
TITL: ARGUS EFFECT ELECTRON DENSITIES FROM HIGH ALTITUDE NUCLEAR TESTS  
(U), 25 P, (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 02234  
AUTH: JOHNSON M.H. ; LIPPMANN B.A.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 5908  
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1  
DESC: nuclear test detection EMP earth current detection L1  
DESC: THEORY SUMMARY  
EMPF: 221  
REPN: UCRL 5666 T  
TSHO: HI-ALT  
SUJO: 2-510-000 ; 4-914-000  
TITL: ELECTROMAGNETIC SIGNALS FROM NUCLEAR EXPLOSIONS IN OUTER SPACE (U),  
6 P, (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 02236  
AUTH: COLGATE S.A.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6110  
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry initial  
gamma L1  
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1  
DESC: THEORY  
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic  
Perturbations L1  
EMPF: 222  
REPN: UCRL 6671  
TSHO: LOW-ALT  
SUJO: 2-312-200 ; 2-510-000 ; 2-530-000  
TITL: SKIN DEPTH ANALYSIS OF EM SIGNAL FROM THE GAMMA RAYS OF A NUCLEAR  
EXPLOSION (U), 7 P, (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 02237

AUTH: SOFTKY S.D. ; SQUIRE R.K.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6005  
DESC: Nuclear Energy Peaceful Applications basic physical measurements  
nuclear cross sections L1  
DESC: Nuclear Test Simulation Field Programs concepts capability  
philosophy L1  
DESC: THEORY  
REPN: UCRL 5968 ; TID 4500  
TSHO: HI-ALT  
SUJO: 3-486-000 ; 4-810-000  
TITL: IN VACUO ELECTROMAGNETIC DISPERSION EXPERIMENT (U), 21 P, (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 02244  
ADNO: 333243  
CLSS: S  
CORP: ARMED SERVICES TECHNICAL INFORMATION AGENCY (ARLINGTON-VA)  
DATE: 6211  
DESC: Radiation Transport thermal L1  
DESC: thermal protection L1  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1  
DESC: BIBLIOGRAPHY  
SUJO: 5-200-000 ; 9-610-000 ; 9-870-000  
TEMP: 39838  
TITL: BIBLIOGRAPHY: ATTENUATION AND ABSORPTION OF THE THERMAL RADIATION  
FROM NUCLEAR EXPLOSIONS (U), 156 P, (S)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02266  
AUTH: HERBST R.F. ; WATSON K.M. ; LATTE R.  
CLSS: U  
CORP: LAWRENCE RADIATION LABORATORY (BERKELEY-CA) RAND CORP (SANTA MONICA  
CA) ENT  
DATE: 6108  
DESC: SURVEY  
DESC: nuclear test detection methods hardware L1  
REPN: P 2399

SUJO: 4-910-000  
TITL: DETECTION OF NUCLEAR EXPLOSIONS (U), 94 P, (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 02278  
AUTH: JEWELL L.D. ; SMITH R.E.W. ; ALLEN F.C.  
CLSS: SRD 1  
CONN: NORD 18098  
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)  
DATE: 6205  
DESC: SIMULATION (COMPUTER) DEV 12 ; TABULAR  
DESC: Radiation Transport neutron L1 AIR CO ALTITUDE ONLY  
REPN: KN 62 71 R  
TSHO: HI ALT  
SUJO: 9-650-000  
TEMP: 41053  
TITL: RESULTS OF A MONTE CARLO CALCULATION OF NEUTRON FLUX FROM A SOURCE  
AT 165,000 FEET ALTITUDE (U), 23 P, (SRD)

TREE: 920  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 02282  
AUTH: JEWELL L.D. ; SMITH R.E.W.  
CLSS: SRD 1  
CCDE: THISTLE  
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)  
DATE: 6212  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: SIMULATION (COMPUTER) DEV 10  
DESC: Radiation Transport neutron L1 AIR  
REPN: KN 62 220 R  
TSHO: LOW ALT  
SUJO: 1-110-000 ; 9-650-000  
TEMP: 41054  
TITL: RESULTS OF A MONTE CARLO CALCULATION OF NEUTRON FLUX FROM A SOURCE  
AT 4550 FEET (U), 17 P, (SRD)

TREE: 920  
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02282



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created: 12/27/1991 type: REPORT permanent

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INUM: 02296  
ADNO: 343398  
AUTH: BROUGH T.G. ; MOSBY E.O. ; COSGRAVE J.F.  
CLSS: C  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5907  
DESC: BIBLIOGRAPHY  
REPN: NRDL 462  
TEMP: 39970  
TITL: INDEX TO U.S. NAVAL RADIOLOGICAL DEFENSE LABORATORY, USNRDL SERIES  
REPORTS ISSUED THROUGH 31 JULY 1959, (U), 315 P (C

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copy: 1 id: 38735-1001 library: DOCUMENT price: \$.00  
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INUM: 02345  
ADNO: 413007  
AUTH: STUBBS H.E.  
CLSS: U  
CONN: AF 29 601 4134  
CORP: GEOPHYSICS CORPORATION OF AMERICA (BEDFORD-MA)  
DATE: 6204  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry  
general descriptions L1  
DESC: TRANSITION PROBABILITIES ; THEORY  
DESC: Nuclear Weapon Environment radiation decay L1  
DESC: Solid Mechanics L1  
SUJO: 2-223-400 ; 2-311-000 ; 9-200-000  
TITL: STUDY OF THE RECOMBINATION PHENOMENA ASSOCIATED WITH A HIGH NUCLEAR  
EXPLOSION (U 41 P, (U)

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INUM: 02374  
CLSS: SRD 1  
CONN: AF 19 604 6137

CORP: AMERICAN SCIENCE AND ENGINEERING INCORPORATED (CAMBRIDGE-MA)  
DATE: 6007  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L5  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry  
general descriptions L1  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
DESC: THEORY  
REPN: ASE 66 ; ERD TR 60 175  
SUJO: 2-211-000 ; 2-212-000 ; 2-311-000 ; 4-140-000  
TEMP: 39929  
TITL: AIRBORNE GAMMA-RAY MEASUREMENTS, FINAL REPORT (U), 30 P (SRD)

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INUM: 02401  
ADNO: 339886  
CLSS: SRD 1  
CORP: ARMY/CONTINENTAL COMMAND OF SPECIAL WEAPONS DEVELOPMENTS (FORT  
BLISS-TX)  
DATE: 6010  
DESC: Nuclear weapon test device physical operation construction geometry  
materials components L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1 CALCULATION  
DESC: Nuclear weapon test yield L1  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 NUETRON  
GAMMA  
DESC: Cross Sections gamma L5 VARIOUS ELEMENTS  
DESC: Radiation Transport neutron L5 AIR  
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L1  
DESC: DEV 29 DEV 54 DEV 55 DEV 113 DEV 114 DEV 115 DEV 75 DEV 116 DEV 37  
DEV 15 DEV 72 DEV 56 DEV 12 DEV 10 DEV 8 DEV 14 DEV 29 ; SUMMARY  
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry prompt  
neutron L5  
REPN: OSWD 59 4 V 2  
SUJO: 1-110-000 ; 1-130-000 ; 2-312-300 ; 3-161-000 ; 4-835-000 ;  
4-836-000 ; 9-650-000 ; 9-830-000  
TEMP: 39945  
TITL: RADIATION EFFECTS OF ONE NUCLEAR EXPLOSION ON A SECOND NUCLEAR  
WEAPON, VOL II (U 319 P, (SRD)

TREE: 397

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created: 12/27/1991 type: REPORT permanent

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INUM: 02405  
ADNO: 342426  
AUTH: SUSSHOLZ B.  
CLSS: SRD  
CORP: SPACE TECHNOLOGY LABORATORIES INCORPORATED  
DATE: 6112  
DESC: TABULAR  
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1  
SCALING  
EMPF: 223  
REPN: 6101 6055 GQ000  
TSHO: SURFACE  
SUJO: 2-510-000  
TEMP: A6556  
TITL: CONCLUSIONS AND RECOMMENDATIONS OF THE STL AD HOC PANEL ON  
ELECTROMAGNETIC RADIATION (U), 17 P (SRD)

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INUM: 02406  
ADNO: 339651  
CLSS: SRD 1  
CONN: AF 04 647 303  
CORP: EG+G INCORPORATED (BOSTON-MA)  
DATE: 6109  
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L9  
P87  
DESC: Nuclear Weapon Environment Infrared Output source strength total  
intensity L5 TEAK  
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L5 P88  
25  
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1  
DESC: THERMAL NEUTRONS GAMMA  
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic  
Perturbations L5  
DESC: Nuclear Weapon Environment Visible Output energy spectrum L5  
DESC: Nuclear Weapon Environment Induced Radiofrequency Noise 69 P88  
DESC: Nuclear Weapon Environment Thermal Output rate L1 UV VISIBLE IR  
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L5  
NEAR UV TEAK  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L5

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L9 P24  
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical  
devices sensors IR detectors L1 VISIBLE RADIATION  
REPN: B 2281 ; EGG B 2281  
SHOT: TEAK ; ORANGE ; YUCCA  
SUJO: 1-110-000 ; 1-210-000 ; 1-240-000 ; 1-310-000 ; 1-420-000 ;  
1-520-000 ; 1-740-000 ; 2-110-000 ; 2-400-000 ; 2-510-000 ;  
2-530-000 ; 3-133-000 ; 3-211-000  
TEMP: 39939  
TITL: EFFECTS OF HIGH-ALTITUDE DETONATIONS PERTINENT TO NAVIGATIONAL AND  
GUIDANCE SYSTEMS (U), 92 P (SRD)

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02406  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 02483  
ABS: This bibliography was prepared at ASTIA in response to inquiries on  
the hazards and safety aspects of radiological warfare and nuclear  
explosions. Citations are included for reports catalogued at ASTIA  
from 1953 through June 1962, and are restricted to classified  
reports and unclassified reports with limited distribution. The  
subject content is divided into nuclear explosion detection and  
monitoring, nuclear explosions nuclear warheads, nuclear weapons,  
protection, radiation meters, and radiological warfare.

ADNO: 330030  
AUTH: WAINWRIGHT A. ; BALDWIN J.A.  
CLSS: S  
CORP: ARMED SERVICES TECHNICAL INFORMATION AGENCY (ARLINGTON-VA)  
DATE: 6207  
DESC: Nuclear Weapon Effects aerospace systems L1 BLAST EFFECTS AIR AND UW  
BURST  
DESC: Nuclear Warfare Strategic radiological warfare L1  
DESC: BIBLIOGRAPHY  
DESC: Nuclear Weapon Environment fallout Deposition L1 FALLOUT  
DESC: Nuclear Weapon Effects structures aboveground L1 BLAST  
DESC: Nuclear Weapon Information L1  
DESC: Nuclear Weapon Effects Biological Ecological Social Systems L1  
RADIATION EFFECTS PROTECTION  
DESC: Nuclear Weapon Detonation Detection Monitoring L1  
DESC: Nuclear Weapon Effects ship systems L1 BLAST  
SUJO: 2-225-000 ; 3-110-000 ; 3-120-000 ; 3-250-000 ; 3-300-000 ;  
3-422-800 ; 4-830-000 ; 4-900-000  
TEMP: 41483  
TITL: RADIOLOGICAL WARFARE AND NUCLEAR EXPLOSIONS (U), 89 P, (S)

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02483  
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copy: 1 id: 38854-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02545  
AUTH: WILEY J. ; PATRICK C. ; COON M. ; BECK A.  
CLSS: SRD 1  
CORP: MARTIN COMPANY (DENVER-CO)  
DATE: 5904  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5  
NEUTRON  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: THEORY TABULAR  
REPN: RM 32  
TSHO: HI ALT  
SUJO: 1-110-000 ; 1-120-000 ; 3-312-100  
TEMP: 41673  
TITL: PROMPT NEUTRON FLUXES AND BIOLOGICAL DOSES FROM HIGH ALTITUDE  
NUCLEAR WEAPON BURSTS (U), 26 P, (SRD)  
TREE: 920

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created: 12/27/1991 type: REPORT permanent

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INUM: 02733  
CLSS: SRD 1  
CORP: AIR FORCE/SPECIAL WEAPONS CENTER (KIRTLAND AFB-NM)  
DATE: 6205  
DESC: SUMMARY  
DESC: Nuclear Test Simulation Field Programs concepts capability  
philosophy L1 NUCLEAR RADIATION X RAY BLAST EMP THERMAL BIOMETICCAL  
REPN: AFSWC SWRC 2 0157  
SUJO: 4-810-000  
TEMP: 43235  
TITL: NUCLEAR EFFECTS RESEARCH AND TESTING, A FIVE YEAR TECHNICAL PLAN  
(U), CIRCA 90(SRD)  
TREE: 641

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copy: 1 id: 38992-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 02761  
AUTH: BENNETT H.A.  
CLSS: SFRD  
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)  
DATE: 6012  
DESC: Nuclear Weapon Effects structures hard launch sites electronics  
electrical power systems L1 EMP  
DESC: THEORY  
EMPF: 365  
REPN: SCTM 377 60 71 ; RS 3423 443  
SUJO: 3-116-300  
TEMP: 43316  
TITL: VULNERABILITY OF HARDENED MISSILE LAUNCH SITES TO ELECTROMAGNETIC  
RADIATION PRODUCED BY NUCLEAR DETONATION (U), ATOMIC WEAPON DATA,  
SIGMA 3, 13 P, (SFRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 03209  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6107  
DESC: Simulation Facilities Techniques nuclear radiation L1  
DESC: Simulation Facilities Techniques biomedical thermal L1  
DESC: Non-DNA Organizational Operational Information including Standards  
Procedures Vitae Publication Lists L1  
DESC: Simulation Facilities Techniques biomedical nuclear radiation L1  
DESC: Simulation Facilities Techniques thermal optical L1  
SUJO: 4-240-000 ; 4-251-000 ; 4-252-000 ; 4-280-000 ; 4-720-000  
TITL: RESOURCES, CAPABILITIES AND ACCOMPLISHMENTS OF THE U.S. NAVAL  
RADIOLOGICAL DEFENSE LABORATORY (U), 67 P, (U)

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03209

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copy: 1 id: 39328-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 03448-1  
ADNO: 356874  
AUTH: BUTLER G. JR., CONTRERAS L.M., MOSHOFSKY R.P.  
CLSS: SRD  
CONN: AF 29 601 4128  
CORP: BOEING COMPANY (SEATTLE-WA), AIR FORCE/WEAPONS LABORATORY (KIRTLAND  
AFB-NM)  
DATE: 6111

DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence  
DESC: Cross Sections gamma  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: EXPERIMENTAL THEORY  
DESC: Cross Sections neutron  
REPN: AFSWC TDR 61 106 VOL 1 ; SWC TDR 61 106 VOL 1  
SHOT: OWENS ; HOOD ; WILSON ; CHARLIE(B-J) ; ITEM ; CHARLIE(T-S) ; LAPLACE  
; BAKER(B-J) ; UNION ; KOON ; NAVAJO ; DAKOTA ; FLATHEAD ; ZUNI ;  
CHEROKEE ; MIKE ; KING  
TSHO: LOW-ALT ; WATER-SURFACE ; SURFACE  
SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 2-223-200 ; 2-223-420 ;  
9-820-000 ; 9-830-000  
TEMP: 45961  
TITL: PROCEDURES FOR CALCULATING NUCLEAR RADIATION DOSE AND DOSE RATES  
FROM NUCLEAR WEAPONS DETONATED IN THE LOWER ATMOSPHERE, VOLUME 1,  
FINAL REPORT (U), 247 P (SRD)  
TREE: 910 ; 920  
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copy: 1 id: 39468-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 03448-2  
ADNO: 356875  
AUTH: BUTLER G. JR., CONTRERAS L.M., MOSHOFSKY R.P.  
CLSS: SRD  
CCDE: ZZ (CALCULATION OF DOSE AND DOSE RATES AT A SERIES OF FIXED  
HORIZONTAL RANGES AT A FIXED ALTITUDE CALCULATION OF DOSE AND DOSE  
RATES TO A RECEIVER MOVING ALONG AN ARBITRARY TRAJECTORY)  
CONN: AF 29 601 4128  
CORP: BOEING COMPANY (SEATTLE-WA), AIR FORCE/WEAPONS LABORATORY (KIRTLAND  
AFB-NM)  
DATE: 6111  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: Cross Sections gamma  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity  
DESC: CODE  
DESC: Cross Sections neutron  
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width  
REPN: AFSWC TDR 61 106 VOL 2 ; SWC TDR 61 106 VOL 2  
SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 2-223-200 ; 2-223-420 ;

9-820-000 ; 9-830-000

TEMP: 45962

TITL: PROCEDURES FOR CALCULATING NUCLEAR RADIATION DOSE AND DOSE RATES  
FROM NUCLEAR WEAPONS DETONATED IN THE LOWER ATMOSPHERE, VOLUME II,  
FINAL REPORT (U), 210 P (SRD)

TREE: 910 ; 920

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created: 12/27/1991 type: REPORT permanent

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INUM: 03651

ADNO: 361978L

AUTH: TOMA J.S. ; HARRINGTON R.R. ; WILLIAMS J.R.

CLSS: SRD

CORP: AIR FORCE/SYSTEMS COMMAND (WASHINGTON-DC)

DATE: 6206

DESC: Nuclear weapon test yield

DESC: Nuclear Weapon Effects EM Propagation absorption blackout

DESC: Nuclear Weapon Environment Initial Gamma source strength total

intensity

DESC: SURVEY

DESC: Nuclear Warfare Strategic operations scenarios battlefield  
environment L1

DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence

DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity

DESC: Nuclear Weapon Environment Water Shock motion surface waves runup

DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE

DESC: Nuclear Weapon Environment Water Shock pressure impulse particle  
motion

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

REPN: SWC TDR 62 53 ; AFSWC TDR 62 53

TSHO: LOW-ALT ; HI-ALT

SUJO: 1-110-000 ; 1-210-000 ; 1-710-000 ; 2-223-200 ; 2-321-100 ;

2-611-000 ; 2-631-000 ; 2-633-000 ; 3-312-100 ; 3-421-200 ;

4-835-000

TEMP: 47423

TITL: EVALUATION OF HIGH YIELD WEAPON CAPABILITIES (U), 78 P (SRD)

TREE: 910 ; 920

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created: 12/27/1991 type: REPORT permanent

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INUM: 04246  
ADNO: 230086  
AUTH: LEDOUX J.C.  
CLSS: U  
CORP: NAVY/NAVAL CIVIL ENGINEERING LABORATORY (PORT HUENEME-CALIFORNIA)  
DATE: 5910  
DESC: Cross Sections neutron  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity  
DESC: Cross Sections gamma  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: THEORY TABULAR  
REPN: TR 025 ; 025  
SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 9-820-000 ; 9-830-000  
TITL: NUCLEAR RADIATION SHIELDING PROVIDED BY BURIED SHELTERS (U), 65 P  
(U)  
TREE: 411 ; 412  
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04246  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 04258  
ADNO: 329755  
AUTH: SCHERRER V.E. ; MEHLHORN H.A.  
CLSS: U  
CONN: AF 33 (616) 6539  
CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MASSACHUSETTS) ; AIR  
FORCE/FLIGHT DYNAMICS LABORATORY (WRIGHT-PATTERSON AIR FORCE  
BASE-OHIO)  
DATE: 6108  
DESC: Nuclear Weapon Effects materials not systems associated  
DESC: EXPERIMENTAL THEORY  
DESC: test instruments x-ray effects  
DESC: Cross Sections x-ray  
DESC: test instruments electronic vulnerability EMP  
DESC: test instruments nuclear radiation dosimeters radiacs  
DESC: Simulation Facilities Techniques x-ray effects  
REPN: TO B 61 43 ; ASD TR 61 377  
TSHO: HI-ALT  
SUJO: 3-240-000 ; 4-231-000 ; 4-330-000 ; 4-346-000 ; 4-371-000 ;  
9-840-000  
TEMP: 49623  
TITL: STUDY OF NUCLEAR WEAPON X-RAY EFFECTS, FINAL REPORT (U), 158 P (C)  
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04258  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 04496  
AUTH: SHELTON A.V. ; NORDYKE M.D. ; GOECKERMANN R.H.  
CLSS: U  
CONN: W 7405 ENG 48 (AEC)  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)  
DATE: 6004  
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence  
transitions  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Ground Shock craters excavations  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture  
displacement particle velocity  
DESC: Nuclear Weapon Environment Ground Shock scaling  
DESC: Environmental Conditions at Nuclear Weapon Test Site topography  
REPN: UCRL 5766  
SHOT: NEPTUNE  
TSHO: UG-VENTED  
SUJO: 2-223-200 ; 2-621-000 ; 2-624-000 ; 2-625-000 ; 2-629-000 ;  
4-843-000  
TITL: NEPTUNE EVENT, A NUCLEAR EXPLOSIVE CRATERING EXPERIMENT (U), 32 P  
(U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 04497  
AUTH: THOMPSON T.L. ; MISZ J.B.  
CLSS: U  
CONN: W 7405 ENG 48 (AEC)  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)  
DATE: 5910  
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse  
DESC: EXPERIMENTAL  
DESC: Environmental Conditions at Nuclear Weapon Test Site geology  
DESC: Nuclear Weapon Environment Ground Shock craters excavations  
REPN: UCRL 5757  
SHOT: RAINIER ; NEPTUNE  
TSHO: UG-VENTED ; UG-CONTAINED  
SUJO: 2-625-000 ; 2-627-000 ; 4-842-000  
TITL: GEOLOGIC STUDIES OF UNDERGROUND NUCLEAR EXPLOSIONS RAINIER AND  
NEPTUNE FINAL REPORT (U), 58 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04498

AUTH: JOHNSON G.W.

CLSS: U

CONN: W 7405 ENG 48 (AEC)

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)

DATE: 6001

DESC: Nuclear Weapon Environment Ground Shock craters excavations

DESC: SUMMARY

DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy

Coupling

DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse

DESC: Nuclear Weapon Environment Ground Shock impact pressure stress

DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence

transitions

DESC: Nuclear Test Simulation Field Programs concepts capability

philosophy

REPN: UCRL 5840

SHOT: RAINIER ; SUGAR ; UNCLE ; ESS ; NEPTUNE

TSHO: UG-CONTAINED ; SURFACE ; UG-VENTED

SUJO: 2-150-000 ; 2-623-000 ; 2-625-000 ; 2-627-000 ; 2-629-000 ;

4-810-000

TITL: INDUSTRIAL AND SCIENTIFIC APPLICATIONS OF NUCLEAR EXPLOSIONS (U), 33

P (U)

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copy: 1 id: 40128-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04573

AUTH: DAVIS L.W. ; SUMMERS D.L. ; DURAND A.R.

CLSS: SRD

CONN: AF 33 (600) 40514 (AFIC)

CORP: DIKEWOOD CORPORATION (ALBUQUERQUE-NEW MEXICO)

DATE: 6102

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air

DESC: Nuclear Weapon Environment Airblast effects of topography

DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE

DESC: Nuclear Weapon Effects structures aboveground components

DESC: Nuclear Warfare Strategic operations scenarios battlefield

environment L1

DESC: Nuclear Weapon Effects animals

DESC: Nuclear Weapon Environment Thermal Output

DESC: TABULAR HANDBOOK

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum  
DESC: Nuclear Weapon Environment Ground Shock throwout projectiles  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence  
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE  
REPN: DC FR 1012  
SOCE: VARIOUS EARLY DEVICES  
SUJO: 1-110-000 ; 1-120-000 ; 1-200-000 ; 2-611-000 ; 2-612-000 ;  
2-613-400 ; 2-626-000 ; 3-251-100 ; 3-310-000 ; 3-421-200 ;  
5-200-000  
TEMP: 51110  
TITL: PHENOMENOLOGY OF BLAST, THERMAL, AND INITIAL NEUTRON RADIATION  
PERTINENT TO PERSONNEL CASUALTIES (U), 281 P (SRD)

TREE: 920

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04573

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created: 12/27/1991 type: REPORT permanent

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INUM: 04603

ADNO: 371042

AUTH: WATSON K.M. ; BRUECKNER K.A.

CLSS: C

CORP: GD/CONVAIR DIVISION (SAN DIEGO-CALIFORNIA)

DATE: 6100

DESC: THEORY

DESC: thermal protection L1 WATER FOG, 324 L1 THERMAL

REPN: ZPH 049 ADD 1

SUJO: 9-870-000

TEMP: 51106

TITL: USE OF A FOG TO PROVIDE SHIELDING AGAINST THERMAL RADIATION (U), 12  
P (S)

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04603

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 04960

ADNO: 373278

AUTH: BURSON Z.G. ; GRIESMER D.R.

CLSS: SRD

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)

DATE: 5911

DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Environment Ground Shock craters excavations  
DESC: SURVEY  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity  
DESC: Cross Sections neutron  
DESC: Cross Sections gamma  
REPN: AFSWC TR 59 42  
SHOT: ZUNI ; DAKOTA ; FLATHEAD ; NAVAJO ; TEWA ; LACROSSE ; MOHAWK ; SUGAR  
; MIKE  
TSHO: SURFACE ; WATER-SURFACE  
SUJO: 1-110-000 ; 1-210-000 ; 1-710-000 ; 2-223-200 ; 2-625-000 ;  
9-820-000 ; 9-830-000

TEMP: 51738  
TITL: RADIOLOGICAL PROBLEMS ASSOCIATED WITH HARDENED AIR FORCE  
INSTALLATIONS (U), 57P (SRD)

TREE: 411 ; 412

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04960

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created: 12/27/1991 type: REPORT permanent

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INUM: 04986

ADNO: 374716L

AUTH: GROSS W.C. JR.

CLSS: SRD

CORP: ARMY/BALLISTIC RESEARCH LABORATORIES (ABERDEEN-MARYLAND)

DATE: 6012

DESC: Target Analysis cities L1

DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence

DESC: Target Analysis foreign applications USSR L1

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity

DESC: TABULAR

REPN: 1365

SOCE: DEV-33

SUJO: 1-110-000 ; 1-710-000 ; 3-312-100 ; 3-434-000 ; 3-439-200

TEMP: 51764

TITL: EVALUATION OF THE XM28 AND XM29 WEAPON SYSTEMS AGAINST AN EXPECTED  
SOVIET TARGET COMPLEX (U), 44 P (SRD)

TREE: 910 ; 920

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created: 12/27/1991 type: REPORT permanent  
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INUM: 05049  
AUTH: HENDRICKS J.W. ; SMITH D.L.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)  
DATE: 6010  
DESC: Nuclear Weapon Environment Water Shock bubbles  
DESC: Nuclear Weapon Phenomenology plumes spray domes  
DESC: Simulation Facilities Techniques blast shock water shock L1  
DESC: EXPERIMENTAL  
DESC: test instruments test hardware pressure stress  
REPN: NRDL TR 480  
SUJO: 2-224-130 ; 2-636-000 ; 4-213-000 ; 4-311-000  
TITL: ABOVE AND BELOW-SURFACE EFFECTS OF ONE-POUND UNDERWATER EXPLOSIONS,  
HYDRA I (U), 228 P(U)

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copy: 1 id: 40441-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 05161-154  
ADNO: 244784  
AUTH: TOMLINSON J.R.  
CLSS: U  
CORP: ARMY/BALLISTIC RESEARCH LABORATORIES (ABERDEEN-MARYLAND)  
DATE: 6009  
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources  
SUJO: 4-241-000  
SYMJ: SURVIVAL OF MILITARY EQUIPMENT IN A HOT WAR ENVIRONMENT, SHOCK,  
VIBRATION AND ASSOCIATED ENVIRONMENTS, PART III, BULLETIN 28,  
SEPTEMBER 1960 (U)  
TITL: FACILITY FOR RESEARCH IN THE EFFECTS OF PULSED NUCLEAR RADIATIONS  
(U), 5 P (U)  
TREE: 642

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copy: 1 id: 40524-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 05161-159  
ADNO: 244784  
AUTH: FLORA J.W.

CLSS: U  
CORP: ATOMICS INTERNATIONAL (CANOGA PARK-CALIFORNIA)  
DATE: 6009  
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources  
DESC: SURVEY  
SUJO: 4-241-000  
SYMJ: SURVIVAL OF MILITARY EQUIPMENT IN A HOT WAR ENVIRONMENT, SHOCK,  
VIBRATION AND ASSOCIATED ENVIRONMENTS, PART III, BULLETIN 28,  
SEPTEMBER 1960 (U)  
TITL: LABORATORY SIMULATION OF THE RADIATION ENVIRONMENT PRODUCED BY A  
NUCLEAR DETONATION (U), 13 P (U)

TREE: 642

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05161-182

ADNO: 244784

AUTH: ZAGORITES H.A. ; CARR E.A. ; DURKEE J.W.

CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 6009

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers

SUJO: 3-221-000

SYMJ: SURVIVAL OF MILITARY EQUIPMENT IN A HOT WAR ENVIRONMENT, SHOCK,  
VIBRATION AND ASSOCIATED ENVIRONMENTS, PART III, BULLETIN 28,  
SEPTEMBER 1960 (U)

TITL: TRANSIENT EFFECTS IN MILITARY ELECTRONIC EQUIPMENT EXPOSED TO  
NUCLEAR FALLOUT (U), 8 P (U)

TREE: 310

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05815

ADNO: 321257

AUTH: SNAY H.G.

CLSS: U

CORP: NAVY/NAVAL ORDNANCE LABORATORY (WHITE OAK-MARYLAND)

DATE: 6009

DESC: Nuclear Weapon Phenomenology plumes spray domes  
DESC: Nuclear Weapon Environment Water Shock special studies temperature  
gradients

DESC: Nuclear Weapon Phenomenology base surge  
DESC: Fluid Mechanics hydrodynamics  
DESC: Nuclear Weapon Environment Water Shock bubbles  
DESC: Nuclear Weapon Environment Water Shock scaling  
DESC: Nuclear Weapon Environment fallout transfer  
DESC: THEORY SUMMARY  
REPN: NAVWEPS 7323  
TSHO: UW  
SUJO: 2-224-120 ; 2-224-130 ; 2-224-300 ; 2-634-000 ; 2-636-000 ;  
2-639-000 ; 9-410-000

TITL: HYDRODYNAMIC BACKGROUND OF THE RADIOLOGICAL EFFECTS OF UNDERWATER  
NUCLEAR EXPLOSIONS (U), 48 P (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 05855  
ADNO: 250704L  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 6005  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport

DESC: SUMMARY  
SUJO: 4-140-000  
TITL: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL IV, HEADS OF DELEGATIONS  
CLOSING REMARKS REVIEWS AND LECTURES NO. 103 (U), 14 P (U)

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05855

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 05897  
ADNO: 318823  
CLSS: C  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 6005  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation



DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1  
DESC: LOCAL FALLOUT ; EXPERIMENTAL  
SHOT: BRITISH (56-05-16 ; BRITISH (56-06-19) ; BRITISH (52-10-03)  
TSHO: LOW-ALT ; WATER-SURFACE  
SUJO: 2-223-410 ; 2-223-420 ; 3-312-000  
TEMP: 55403  
TITL: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOLUME III, REVIEWS AND LECTURES  
NO. 103 (U), 35 P (S)

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copy: 1 id: 40932-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 05897-1  
ADNO: 318823  
AUTH: SOOLE B.W.  
CLSS: C  
CORP: UNITED KINGDOM  
DATE: 6005  
DESC: Nuclear Weapon Phenomenology cloud shape size L5  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates  
DESC: Nuclear Weapon Phenomenology cloud development rise  
LA: UK  
SHOT: BRITISH (52-10-03)  
TSHO: WATER-SURFACE  
SUJO: 2-110-000 ; 2-224-100 ; 2-224-140  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM TECHNICAL STATUS OF RADIOLOGICAL  
DEFENSE IN THE FLEETS, VOL III  
TITL: SURFACE PHENOMENA AT OPERATION HURRICANE (U), 4 P (S)

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INUM: 05897-2  
ADNO: 318823  
AUTH: SOOLE B.W.  
CLSS: C  
CORP: UNITED KINGDOM  
DATE: 6005  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment radiation decay  
LA: UK  
SHOT: BRITISH (52-10-03)

TSHO: WATER-SURFACE  
SUJO: 2-223-400  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL III  
TITL: DECAY RATES OF FALL-OUT AT OPERATION HURRICANE (U), 10 P (S)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 05897-3  
ADNO: 318823  
AUTH: SOOLE B.W.  
CLSS: C  
CORP: UNITED KINGDOM  
DATE: 6005  
DESC: Nuclear Weapon Environment fallout arrival time  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: Nuclear Weapon Environment fallout intensity contours patterns

LA: UK

SHOT: BRITISH (52-10-03)  
TSHO: WATER-SURFACE  
SUJO: 2-223-200 ; 2-223-420 ; 2-225-100 ; 2-225-300  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL III  
TITL: FALLOUT DISTRIBUTION AT OPERATION HURRICAN (U), 22 P (S)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 05897-4  
ADNO: 318823  
AUTH: MORGAN D.T.G.  
CLSS: S  
CORP: UNITED KINGDOM  
DATE: 6005  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Nuclear Weapon Effects on animals ionizing radiation

LA: UK

SHOT: BRITISH (56-05-16) ; BRITISH (56-06-19)  
TSHO: LOW-ALT  
SUJO: 2-223-200 ; 3-312-000

SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL III

TITL: H.M.S. DIANA IN LIGHT FALLOUT, OPERATION MOSAIC (U), 18 P (S)

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copy: 1 id: 40936-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: 05898

ADNO: 322767

CLSS: C

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 6005

DESC: Nuclear Weapon Effects ship systems surface ships

REPN: RI 103

SUJO: 3-122-000

TEMP: B8542

TITL: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS VOLUME II (U), 278 P (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 05898-1

ADNO: 322767

AUTH: SNAY H.G.

CLSS: C

CORP: NAVY/NAVAL ORDNANCE LABORATORY (WHITE OAK-MARYLAND)

DATE: 6005

DESC: SUMMARY

DESC: Nuclear Weapon Environment Water Shock bubbles

SUJO: 2-636-000

SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II

TITL: HYDRODYNAMIC BACKGROUND OF THE RADIOLOGICAL EFFECTS OF UNDERWATER  
NUCLEAR EXPLOSIONS (U), 47 P (C)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05898-2  
ADNO: 322767  
AUTH: SCHUERT E.A.  
CLSS: C  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)  
DATE: 6005  
DESC: Nuclear Weapon Environment fallout transfer  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Nuclear Weapon Phenomenology base surge  
DESC: Nuclear Weapon Environment Water Shock bubbles  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
DESC: Nuclear Weapon Phenomenology plumes spray domes  
DESC: SURVEY  
SHOT: BAKER(XRD) ; WIGWAM ; WAHOO ; UMBRELLA  
TSHO: UW  
SUJO: 2-223-200 ; 2-224-120 ; 2-224-130 ; 2-224-300 ; 2-225-100 ; 2-636-000  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: DISPOSITION OF THE BOMB DEBRIS FROM AN UNDERWATER NUCLEAR EXPLOSION (U) 20 P (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 05898-3  
ADNO: 322767  
AUTH: EVANS E.C.III.  
CLSS: C  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)  
DATE: 6005  
DESC: Nuclear Weapon Phenomenology base surge  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
DESC: Nuclear Weapon Effects ship systems surface ships  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
SHOT: UMBRELLA ; WAHOO  
TSHO: UW  
SUJO: 2-223-200 ; 2-224-120 ; 2-225-100 ; 3-122-000  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: SOME OBSERVATIONS AND SPECULATIONS ON BASE SURGE PHENOMENA (U), 22 P (C)

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cat1: cat2: home: STACKS current: STACKS  
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INUM: 05898-4  
ADNO: 322767  
AUTH: KENDRICK S.  
CLSS: C  
CORP: UNITED KINGDOM  
DATE: 6005  
DESC: THEORY EXPERIMENT  
DESC: Nuclear Weapon Environment Water Shock bubbles  
DESC: Nuclear Weapon Phenomenology base surge  
DESC: Nuclear Weapon Phenomenology cloud columns stems  
LA: UK  
TSHO: UW  
SUJO: 2-224-110 ; 2-224-120 ; 2-636-000  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: THEORETICAL ASPECTS OF EVENTS LEADING TO THE DEVELOPMENT OF THE BASE  
SURGE (U), 20 P (C)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 05898-5  
ADNO: 322767  
AUTH: HART W.D.  
CLSS: C  
CORP: UNITED KINGDOM  
DATE: 6005  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology base surge  
LA: UK  
TSHO: UW  
SUJO: 2-224-120  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: SIMULATION OF WATER SURFACE EFFECTS FROM UNDERWATER ATOMIC  
EXPLOSIONS BY HIGH EXPLOSIVE CHARGES WITHIN THE RANGE 300 8500 LB  
(U), 18 P (C)

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05898-5  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 05898-6  
ADNO: 322767  
AUTH: KENDRICK S.  
CLSS: C  
CORP: UNITED KINGDOM  
DATE: 6005  
DESC: Nuclear Weapon Phenomenology base surge  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology cloud columns stems  
LA: UK  
TSHO: UW  
SUJO: 2-224-110 ; 2-224-120  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: MICROSCALE EXPERIMENTS ON THE FORMATION AND COLLAPSE OF PLUMES AND  
COLUMNS (U), 40 P (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 05898-7  
ADNO: 322767  
AUTH: MILLER C.F.  
CLSS: C  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)  
DATE: 6005  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
DESC: Nuclear Weapon Environment fallout fractionation  
DESC: SURVEY  
DESC: Nuclear Weapon Environment Fallout Formation mechanics  
TSHO: UW  
SUJO: 2-221-000 ; 2-223-500 ; 2-225-100  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: FORMATION AND PROPERTIES OF SEAWATER FALLOUT (U), 14 P (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 05898-8  
ADNO: 322767  
AUTH: MORGAN D.T.G.  
CLSS: C

CORP: UNITED KINGDOM  
DATE: 6005  
DESC: Nuclear Weapon Environment Fallout Particles chemical composition  
solubility  
DESC: Nuclear Weapon Environment Fallout isotope concentrations  
DESC: EXPERIMENTAL  
LA: UK  
TSHO: LOW-ALT  
SUJO: 2-222-100 ; 2-223-100  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: SOME SOLUBILITY EXPERIMENTS ON MOSAIC AND GRAPPLE FALLOUT (U), 10 P  
(C)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 05898-9  
ADNO: 322767  
AUTH: LARIVIERE P.D.  
CLSS: C  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)  
DATE: 6005  
DESC: YAG-39 ; SURVEY  
DESC: Nuclear Weapon Effects on animals ionizing radiation  
DESC: Nuclear Weapon Effects ship systems surface ships  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: Nuclear Weapon Environment fallout transport  
TSHO: UW ; WATER-SURFACE  
SUJO: 2-223-420 ; 2-224-200 ; 3-122-000 ; 3-312-000  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: SHIPBOARD RADIATION FOLLOWING NUCLEAR EXPLOSIONS IN SEAWATER (U), 21  
P (C)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 05898-10  
ADNO: 322767  
AUTH: BEALE E.M.L.  
CLSS: C  
CORP: UNITED KINGDOM

DATE: 6005  
DESC: Nuclear Weapon Environment fallout down fraction  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Environment fallout transport  
LA: UK  
SUJO: 2-224-200 ; 2-225-100 ; 2-225-200  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: DEVELOPMENT OF BRITISH IDEAS ON THE DISTRIBUTION OF MEDIUM RANGE  
FALLOUT (U), 24 P (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 05898-11  
ADNO: 322767  
AUTH: MILES J.A.  
CLSS: C  
CORP: UNITED KINGDOM  
DATE: 6005  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport  
LA: UK  
SUJO: 4-140-000  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: SOME OPERATIONAL PROBLEMS REQUIRING PRECISE DATA ON FALLOUT EFFECTS  
(U), 4 P (C)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 05898-12  
ADNO: 322767  
AUTH: WILLIAMS J.H.  
CLSS: C  
CORP: UNITED KINGDOM  
DATE: 6005  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Initial Gamma angular distribution  
DESC: Nuclear Weapon Effects ship systems surface ships  
DESC: Radiation Transport gamma  
LA: UK



SUJO: 1-730-000 ; 3-122-000 ; 9-620-000  
SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II  
TITL: SHIP SHIELDING (U), 26 P (C)

TREE: 411

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05898-13

ADNO: 322767

AUTH: COOK C.S.

CLSS: C

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 6005

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

SUJO: 2-223-200

SYMJ: PROCEEDINGS OF TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL II

TITL: NEUTRON INDUCED ACTIVITY FROM WEAPONS (U), 7 P (C)

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copy: 1 id: 40942-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 06063

ADNO: 819646

AUTH: GRANT D.A. ; WOOD M.K.

CLSS: U

CORP: DEFENCE RESEARCH BOARD/DEFENCE CHEMICAL BIOLOGICAL AND RADIATION  
LABORATORIES (OTTOWA-CANADA) ; DEPARTMENT OF DEFENSE/DIRECTOR OF  
DEFENSE RESEARCH AND ENGINEERING (WASHINGTON-D.C.)

DATE: 6008

DESC: TABULAR

DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE

DESC: Nuclear Weapon Effects structures aboveground components

LA: CANADA

SUJO: 2-611-000 ; 3-251-100

TITL: CHARTS FOR ESTIMATING BLAST HAZARD FROM MISSILE ATTACK (U), 19 P (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 06428  
ADNO: 316898  
AUTH: CARLETON L.T. ; KISPERSKY J.P. ; KLOTZ M.A. ; SALTONSTALL C.W. ;  
VILTER E.J.  
CLSS: U  
CONN: AF 33 (616) 5792  
CORP: AEROJET-GENERAL CORPORATION (AZUSA-CALIFORNIA)  
DATE: 6003  
DESC: EXPERIMENTAL  
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources  
DESC: Nuclear Weapon Effects materials carbon  
REPN: R 1764  
SUJO: 3-248-000 ; 4-241-000  
TITL: EFFECT OF HIGH AND LOW-INTENSITY RADIATION ON SOLID COMPOSITE ROCKET  
PROPELLANTS, FINAL REPORT (U), 125 P (C)

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06428  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 06464-15  
ADNO: 323311  
AUTH: HALEY K.J.  
CLSS: U  
CONN: AF 33 (616) 36514  
CORP: THIOKOL CHEMICAL CORPORATION (ELKTON-MARYLAND)  
DATE: 6008  
DESC: Nuclear Weapon Effects materials carbon  
DESC: EXPERIMENTAL  
REPN: AS 60 V 002 02622  
SUJO: 3-248-000  
SYMJ: TRANSACTIONS OF THE FIFTH SYMPOSIUM ON BALLISTIC MISSILE AND SPACE  
TECHNOLOGY, VOLUME II PROPULSION (U)  
TITL: RADIATION EFFECTS ON THE PHYSICAL AND BALLISTIC PROPERTIES OF  
MINUTEMAN SOLID PROPELLANT (U), 28 P (C)

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06464-15  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 06949

AUTH: WILKINS M. ; FRENCH J. ; GIROUX R.  
CLSS: U  
CCDE: KO  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)  
DATE: 6207  
DESC: CODE  
DESC: Fluid Mechanics hydrodynamics  
REPN: UCRL 6919  
SUJO: 9-410-000  
TITL: COMPUTER PROGRAM FOR CALCULATING ONE-DIMENSIONAL HYDRODYNAMIC FLOW  
KO CODE (U), 21 P (U)

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06949  
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copy: 1 id: 41659-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 07042

ABS: This contractual effort was undertaken to provide the Air Force with the basic data required to evaluate the initial-and residual radiation hazards arising from very-low-yield nuclear bursts (2 pounds to 20 tons) which might occur during an accident involving nuclear weapons. A graphical summary is presented of the initial-gamma and prompt-neutron radiation for various relative air densities from 0.5 to 1.0 for slant ranges out to 1,200 yards and of the induced soil activation (both doses and dose rates) for various slant ranges (10 to 400 yards), times, and soil compositions. A graphical summary is also presented of the close-in fallout (both doses and dose rates) versus downwind range (approximately 10 to 3,000 yards) for various nuclear yields from 2 pounds to 20 tons, high-explosive weights from 25 to 500 pounds, and no-shear wind speeds from 5 to 30 knots. (u)

ADNO: 362282  
AUTH: DAVIS L.W. ; SUMMERS D.L.  
CLSS: SRD 1  
CONN: AF 29 (601) 4573  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM) ; DIKEWOOD CORPORATION (ALBUQUERQUE-NM)  
DATE: 6204  
DESC: Nuclear Weapon Environment Initial Gamma source strength total intensity  
DESC: Nuclear Warfare Theater operations scenarios battlefield environment L1  
DESC: SUMMARY TABULAR  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum  
DESC: Nuclear Weapon Phenomenology cloud development rise  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total fluence  
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width  
DESC: Nuclear weapon safety radiological  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Environment fallout arrival time  
DESC: Nuclear Weapon Environment fallout down fraction  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
REPN: AFSWC TDR 62 034 ; SWC TDR 62 34  
SHOT: HAMILTON ; HUMBOLDT ; FIG  
SUJO: 1-110-000 ; 1-120-000 ; 1-710-000 ; 1-740-000 ; 2-223-200 ;  
2-224-100 ; 2-225-100 ; 2-225-200 ; 2-225-300 ; 3-411-200 ;  
4-838-100  
TEMP: 59092  
TITL: INITIAL AND RESIDUAL RADIATION FROM VERY-LOW-YIELD NUCLEAR BURSTS  
(U), 114 P (SRD)  
TNFF: 4850 ; 4860 ; 8859  
TREE: 910 ; 920

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created: 12/27/1991 type: REPORT permanent

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INUM: 07047  
AUTH: HENDERSON B.J.  
CLSS: U  
CORP: GENERAL ELECTRIC COMPANY (EVANDALE-OH)  
DATE: 5908  
DESC: Nuclear Weapon Effects on animals ionizing radiation  
DESC: THEORY  
DESC: Cross Sections gamma  
DESC: Cross Sections neutron  
REPN: XDC 59 8 179  
SUJO: 3-312-000 ; 9-820-000 ; 9-830-000  
TITL: CONVERSION OF NEUTRON OR GAMMA RAY FLUX TO ABSORBED DOSE RATE,  
ABSTRACT OF REPORT NO. XDC 59-8-179 (U), 27 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 07054  
AUTH: WHITE C.S.  
CLSS: U  
CONN: AT (29 1) 1242  
CORP: LOVELACE FOUNDATION (ALBUQUERQUE-NEW MEXICO)  
DATE: 5909  
DESC: SURVEY  
DESC: Nuclear Weapon Effects on animals blast shock pressure  
DESC: Nuclear Weapon Effects on animals blast shock missiles  
REPN: TID 5564

SUJO: 3-311-100 ; 3-311-300  
TITL: BIOLOGICAL BLAST EFFECTS, PRESENTED BEFORE THE SPECIAL SUBCOMMITTEE  
ON RADIATION OF THE JOINT COMMITTEE ON ATOMIC ENERGY DURING HEARINGS  
ON THE BIOLOGICAL AND ENVIRONMENTAL EFFECTS OF NUCLEAR WAR,  
WASHINGTON D.C., 24 JUNE 1959

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copy: 1 id: 41794-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 07276  
ADNO: 277900  
AUTH: WAINWRIGHT A. ; BALDWIN J.A.  
CLSS: U  
CORP: DEFENSE DOCUMENTATION CENTER (ALEXANDRIA-VA)  
DATE: 6207  
DESC: BIBLIOGRAPHY  
TITL: RADIOLOGICAL WARFARE, A REPORT BIBLIOGRAPHY (U) 125 P (U)

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07276  
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copy: 1 id: 41902-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 07322  
AUTH: ALLEN L. JR. ; BEAVERS J.L. II ; WHITAKER W.A. ; WELCH J.A. JR. ;  
WALTON R.B.  
CLSS: U  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)  
DATE: 5904  
DESC: EXPERIMENTAL  
DESC: test instruments nuclear radiation beta electron beams  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
DESC: Nuclear Test Simulation Field Programs experiment design  
high-altitude debris  
SHOT: ARGUS-1 ; ARGUS-2  
TSHO: HI-ALT  
SUJO: 2-217-000 ; 4-344-000 ; 4-822-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 64, NUMBER 8 (U), P 893,  
AUGUST, 1959  
TITL: PROJECT JASON MEASUREMENT OF TRAPPED ELECTRONS FROM A NUCLEAR DEVICE  
BY SOUNDING ROCKETS (U), 15 P (U)

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07322  
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copy: 1 id: 41927-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 07475  
ADNO: 387140  
AUTH: DEGGES T.C. ; CARPENTER R. O'B.  
CLSS: SRD  
CONN: AF 19 628 219  
CORP: GEOPHYSICS CORPORATION OF AMERICA (BEDFORD-MA)  
DATE: 6212  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1 NOT STARFISH  
DESC: EXTRA STRATOSPHERIC OBSERVATION ; THEORY SUMMARY  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry  
general descriptions L1 NOT STARFISH  
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow  
fluorescence L1  
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1  
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray  
L1 NOT STARFISH  
REPN: AFCRL 63 210 ; GCA TR 62 30 A  
SHOT: STARFISH  
TSHO: HI-ALT  
SUJO: 2-160-000 ; 2-211-000 ; 2-214-000 ; 2-311-000 ; 2-312-400  
TEMP: A0298  
TITL: COMPUTATION OF ATMOSPHERIC COMPOSITION CHANGES, INFRARED RADIATION,  
AND EVALUATION OF BACKGROUND FLUCTUATIONS ON SYSTEMS (U), FINAL  
REPORT, 266 P, (SRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 07736  
AUTH: BITTNER B.J. ; JESSEN P.L. ; CONNORS R.J. ; MALONE C.P. ; HOFFMAN  
J.R. ; PRICE H.J. ; SHURKE R.V.  
CLSS: U  
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-COLORADO)  
DATE: 6011  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses  
EFFT: EMP  
EMPF: 385  
REPN: KN 60 54 (R)  
SUJO: 3-162-000  
TITL: HAZARD CREATED BY ELECTROMAGNETIC RADIATION TO SYSTEMS UTILIZING  
ELECTRO-EXPLOSIVE DEVICES (U), 138 P (U)

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07736

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created: 12/27/1991 type: REPORT permanent

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INUM: 08174  
AUTH: REED J.W.  
CLSS: U  
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)  
DATE: 6006  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

external

DESC: Nuclear Weapon Environment fallout accumulation rate  
DESC: Nuclear Weapon Test safety  
DESC: THEORY EXPERIMENTAL  
REPN: SC 4414 (RR)  
TSHO: LOW-ALT  
SUJO: 2-223-420 ; 2-225-400 ; 3-312-210 ; 4-856-000  
TITL: COMPARISON OF FALLOUT DOSES FROM NEVADA TESTS, REVISED (U), 46 P (U)

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08174

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copy: 1 id: 42352-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 08207  
ADNO: 460852  
AUTH: LONG E.R.  
CLSS: U  
CONN: AF 29 (601) 1166  
CORP: SANDBERG-SERRELL CORPORATION (PASADENA-CA) ; AIR FORCE  
DATE: 5905  
DESC: TABULAR  
DESC: Nuclear Weapon Effects structures hard launch sites materials  
DESC: Nuclear Weapon Effects materials plastics resins  
EFFT: AIRBLAST ; THERMAL ; NUCLEAR RADIATION ; GROUND SHOCK  
REPN: AFSWC TR 59 49  
SUJO: 3-116-200 ; 3-244-000  
TITL: ANALYTICAL STUDIES, INVESTIGATION, AND PRELIMINARY DESIGNS OF DOOR  
AND FOUNDATION SEALS FOR PROTECTIVE STRUCTURES, TECHNICAL REPORT  
(U), 106 P (U)

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08207

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copy: 1 id: 42386-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 08240  
ADNO: 272546  
AUTH: ANTHONY A.E. JR. ; OMODA E.  
CLSS: U  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6202  
DESC: TABULAR  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum  
DESC: Radiation Transport neutron  
REPN: AFSWC TDR 62 17  
TSHO: HI-ALT  
SUJO: 1-110-000 ; 1-120-000 ; 9-650-000  
TITL: TRANSPORT OF NEUTRONS THROUGH THE ATMOSPHERE FOR A BURST HEIGHT OF  
500,000 FEET (U), 35 P (U)  
TREE: 980

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08240

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copy: 1 id: 42415-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 08268  
AUTH: CALLER J.M.  
CLSS: U  
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)  
DATE: 6104  
DESC: Nuclear Weapon Effects electronic subsystems  
DESC: EXPERIMENTAL  
EFFT: TREE ; NUCLEAR RADIATION  
REPN: SCTM 62 61 (14)  
SUJO: 3-210-000  
TITL: STUDY OF PULSE VOLTAGES DEVELOPED BY COAXIAL CABLES DURING PULSED  
NEUTRON IRRADIATION (U), 27 P (U)  
TREE: 390

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08268

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copy: 1 id: 42438-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 08300  
ADNO: 622301  
AUTH: MAROTTA C. ; BUGER W.  
CLSS: U



CCDE: ZZ  
CONN: DA 49 186 ORD 1012  
CORP: UNITED NUCLEAR CORPORATION (WHITE PLAINS-NY)  
DATE: 6204  
DESC: THEORY  
DESC: Radiation Transport neutron  
REPN: UNC 5006  
SUJO: 9-650-000  
TITL: DESCRIPTION OF AN IBM-7090 MONTE CARLO PROGRAM (UNC-90-6) FOR THE  
SOLUTION OF THE TIME DEPENDENT NEUTRON TRANSPORT PROBLEM IN AN  
ATMOSPHERE WITH DENSITY DEPENDENT ON HEIGHT (U), 55 P (U)

TREE: 980

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copy: 1 id: 42455-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 08389

ADNO: 265363

AUTH: BABCOCK R.V. ; REICHERT J.D. ; RUBY S.L.

CLSS: U

CONN: AF 29 (601) 2770

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM) ;  
WESTINGHOUSE MATERIALS LABORATORIES (PITTSBURGH-PA)

DATE: 6108

DESC: test instruments nuclear radiation neutron

DESC: SUMMARY

DESC: Cross Sections neutron

REPN: AFSWC TR 61 57

SUJO: 4-342-000 ; 9-820-000

TITL: SOLID STATE JUNCTION FAST NEUTRON SPECTROMETERS, APPENDIX II (U), 95  
P (U)

TREE: 652

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copy: 1 id: 42528-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 08471

ABS: Navy gray paint surfaces were contaminated at shot Wahoo and shot  
umbrella during operation Hardtack. Samples of these surfaces were  
decontaminated in laboratory tests by methods simulating fire  
hosing, steam cleaning, and mechanical scrubbing, both with and  
without chemical additives. The results are compared with those from  
similar decontamination studies conducted at Operation Wigwam and in  
the laboratory using synthetic fallout.

ADNO: 315492  
AUTH: LANE W.B. ; MILLER C.F.  
CLSS: C  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5909  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: EXPERIMENTAL  
REPN: USNRDL TR 0384  
SHOT: WAHOO ; UMBRELLA  
TSHO: UW  
SUJO: 2-223-420 ; 3-312-210  
TEMP: A5360  
TITL: DECONTAMINATION STUDIES WITH NAVY GRAY PAINT SURFACES CONTAMINATED  
AT OPERATION HARDTACK (U), 64 P (C)

TNFF: 6290

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created: 12/27/1991 type: REPORT permanent

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INUM: 08493

ABS: A fallout-prediction method should be based on all the dynamics of the fall-out process, but current prediction models do not provide more than generalized answers because they do not account for early-time dynamics. A theory for close-in fallout has been derived in a recent attempt to account for the entire process. In this study, the new theory is checked by developing a mathematical fallout-prediction model. This model is used to predict fallout patterns from 3 low-yield (about 1 KT) nuclear weapons. These patterns are then compared with the measured test patterns and also with patterns calculated with 2 other prediction models. Based on these comparisons, it is concluded that the theory is valid, at least for low-yield land-surface and shallowunderground bursts.

ABS: For underground bursts having a significant base surge, it is indicated that the model will have to be modified to take this effect into account before successful prediction can be expected. Since the basic fall-out phenomena associated with a land-surface burst of low yield are essentially the same as those for a high yield, it is now considered feasible to proceed with checking the theory for higher-yield land-surface bursts. Preliminary results indicate that the theory can be used to give successful predictions for shots in the moderate and high yield ranges. Accordingly, the model has been programed for an electronic computer for land-surface bursts through the 1-KT to 100-KT range of weapon yields. (auth)  
COMPUTERS; DISTRIBUTION; EQUATIONS; FALLOUT; NUCLEAR EXPLOSIONS

ADNO: 234359  
AUTH: ANDERSON A.D.  
CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5901  
DESC: Nuclear Weapon Environment Fallout Formation mechanics  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
DESC: Nuclear Weapon Environment Fallout Particles size distribution  
DESC: THEORY  
REPN: USNRDL TR 289  
SHOT: SUGAR ; ESS ; UNCLE  
SUJO: 2-221-000 ; 2-222-300 ; 2-225-100  
TITL: APPLICATION OF THEORY FOR CLOSE-IN FALLOUT TO LOW-YIELD LAND SURFACE  
AND UNDERGROUND NUCLEAR DETONATIONS (U), 53 P (U)

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copy: 1 id: 42614-1001 library: DOCUMENT price: \$.00  
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created: 12/27/1991 type: REPORT permanent

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INUM: 08494  
ADNO: 233607  
AUTH: CHAN H.K.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5902  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Nuclear Weapon Environment Fallout Particles size distribution  
DESC: Nuclear Weapon Environment Fallout Particles physical  
characteristics  
DESC: LOCAL FALLOUT ; EXPERIMENTAL  
REPN: NRDL TR 314  
SUJO: 2-222-200 ; 2-222-300 ; 2-223-200  
TITL: ACTIVITY-SIZE RELATIONSHIP OF FALLOUT PARTICLES FROM TWO SHOTS,  
OPERATION REDWING (U), 68 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08495  
ADNO: 239961  
AUTH: MATHER R.L.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5901  
DESC: LOCAL FALLOUT 18 MIN TO 200 MIN ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment fallout transport  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
REPN: NRDL TR 344

SHOT: WILSON ; OWENS  
SUJO: 2-223-200 ; 2-224-200  
TITL: CHANCE OBSERVATIONS OF FALLOUT CLOUD TRANSIT RADIATION AT OPERATION  
PLUMBBOB (REVISED) (U), 16 P (U)

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copy: 1 id: 42616-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 08496  
ADNO: 233344  
AUTH: HENRY G. ; ANDERSON A.D.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5912  
DESC: THEORY TABULAR  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt  
DESC: Nuclear Weapon Environment fallout arrival time  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
REPN: USNRDL TR 390  
TSHO: LOW-ALT ; SURFACE  
SUJO: 2-225-100 ; 2-225-300 ; 3-312-100  
TITL: DOSE-TIME-DISTANCE CURVES FOR CLOSE-IN FALLOUT FOR LOW YIELD  
LAND-SURFACE NUCLEAR DETONATIONS (U), 14 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08500  
ADNO: 233076  
AUTH: CHAN H.K.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5909  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: test instruments nuclear radiation fallout debris sampling  
collectors  
DESC: EXPERIMENTAL  
REPN: USNRDL TR 363  
SUJO: 2-223-420 ; 4-345-000 ; 4-821-000  
TITL: ANALYSIS OF STANDARD-PLATFORM WIND BIAS IN FALLOUT COLLECTION AT  
OPERATION REDWING (U), 46 P (U)

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copy: 1 id: 42620-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 08502

ADNO: 606326

AUTH: MITCHELL H.H.

CLSS: U

CONN: AF 49 (638) 700

CORP: RAND CORPORATION (SANTA MONICA-CA)

DATE: 6108

DESC: Nuclear Warfare Postattack Recovery civilians population L1

DESC: SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

DESC: Nuclear Weapon Effects ecological

REPN: RM 2801 PR

SUJO: 3-312-100 ; 3-341-000 ; 3-442-000

TITL: ECOLOGICAL PROBLEMS AND POSTWAR RECUPERATION, A PRELIMINARY SURVEY  
FROM THE CIVIL DEFENSE VIEWPOINT (U), 38 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08505

ADNO: 232898

AUTH: MACKIN J.L. ; ZIGMAN P.E. ; STROM P.O. ; NUCKOLLS M.J.

CLSS: U

CORP: NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 5908

DESC: SUMMARY TABULAR EXPERIMENTAL

DESC: Nuclear Weapon Environment radiation decay L2 1 SEC TO 4 MIN

DESC: Orbital Mechanics L1

REPN: USNRDL TR 359 ; NS 081 001 ; AW 7

SUJO: 2-223-400 ; 9-100-000

TITL: EARLY TIME DECAY OF FISSION PRODUCT MIXTURES. I. SCINTILLATION  
COUNTER MEASUREMENTS FOLLOWING THERMAL NEUTRON FISSION OF U 235 (U)  
TECHNICAL REPORT, 16 P, (U)

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08505

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created: 12/27/1991 type: REPORT permanent

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INUM: 08507  
ADNO: 232085  
AUTH: FREILING E.C.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5910  
DESC: Nuclear Weapon Environment radiation decay isotopic half lives  
DESC: Nuclear Weapon Environment fallout fractionation  
DESC: EXPERIMENTAL SUMMARY  
REPN: USNRDL TR 385  
TSHO: SURFACE ; WATER-SURFACE  
SUJO: 2-223-410 ; 2-223-500  
TTTL: FRACTIONATION I. HIGH-YIELD SURFACE BURST CORRELATION (U), 33 P (U)

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08507

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 08538  
ADNO: 926094  
AUTH: DAY R.P. ; ALVARES N.J. ; LAUGHRIDGE F.I. ; ULBERG J.C. ; HAMMOND  
R.R.

CLSS: SRD  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5901  
DESC: Nuclear Weapon Environment Airblast static overpressure ARRIVAL TIME  
DESC: Nuclear weapon test yield  
DESC: Nuclear Weapon Environment Thermal Output rate  
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy  
Coupling L9 P 56 ENERGY PARTITION

DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity

REPN: USNRDL TR 309

SHOT: SMOKY ; FRANKLIN PRIME ; DOPPLER ; SHASTA ; STOKES ; OWENS ; KEPLER  
; JOHN ; DIABLO ; HOOD ; PRISCILLA ; WILSON ; FRANKLIN ; BOLTZMANN

TSHO: LOW-ALT

SUJO: 1-210-000 ; 1-240-000 ; 2-150-000 ; 2-611-000 ; 4-835-000

TEMP: A8114

TTTL: AIRBORNE THERMAL RADIATION MEASUREMENTS AT OPERATION PLUMBBOB (U),  
74 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08542  
ADNO: 231332  
AUTH: ANDERSON A.D.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5910  
DESC: Nuclear Weapon Environment fallout accumulation rate  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity  
DESC: Nuclear Warfare Theater operations scenarios battlefield environment  
L1  
DESC: SUMMARY  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
REPN: USNRDL TR 0369  
SUJO: 2-225-100 ; 2-225-400 ; 3-411-200 ; 4-821-000  
TITL: WIND-MEASURING SYSTEM FOR THE TACTICAL PREDICTION OF FALLOUT (U), 32  
P (U)  
TNFF: 4860

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08542  
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copy: 1 id: 42655-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 08543  
ADNO: 227444  
AUTH: GIBBONS M.G. ; RUDKIN R.L. ; NICHOLS J.R. ; LAUGHRIDGE F.I. ;  
STURGIS R.L. ; KRENIK R.J.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5907  
DESC: EXPERIMENTAL  
DESC: Simulation Facilities Techniques thermal optical  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air  
REPN: USNRDL TR 357  
SUJO: 4-280-000 ; 5-200-000  
TITL: GROUND-TO-AIR TRANSMISSION OF VISIBLE AND NEAR INFRARED RADIATION  
FROM A 4-PI SOURCE (U), 32 P (U)

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08543  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 08548  
ADNO: 226250  
AUTH: FARLOW N.H.  
CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5904  
DESC: Nuclear Weapon Environment fallout arrival time  
DESC: Nuclear Weapon Environment Fallout Particles size distribution  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Environment fallout transfer  
REPN: USNRDL TR 347  
TSHO: WATER-SURFACE  
SUJO: 2-222-300 ; 2-224-300 ; 2-225-300  
TITL: ATMOSPHERIC REACTIONS OF SLURRY DROPLET FALLOUT (U), 31 P (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 08549  
ADNO: 229199  
AUTH: COOK C.S.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5910  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: EXPERIMENTAL  
REPN: USNRDL TR 318  
SUJO: 2-223-200 ; 2-223-420  
TITL: ENERGY SPECTRUM OF GAMMA RADIATION FROM FALLOUT (U), 24 P (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 08550  
ADNO: 229280  
AUTH: SCHELL W.R.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5909  
DESC: Nuclear Weapon Environment Fallout Particles chemical composition  
solubility  
DESC: EXPERIMENTAL  
REPN: NRDL TR 364  
SHOT: FLATHEAD ; NAVAJO  
TSHO: WATER-SURFACE  
SUJO: 2-222-100  
TITL: IDENTIFICATION OF MICRON-SIZED, INSOLUBLE-SOLIDS FALLOUT PARTICLES



COLLECTED DURING OPERATION REDWING (U), 23 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08564

ADNO: 60660

AUTH: LAITIN H.

CLSS: U

CORP: RAND CORPORATION (SANTA MONICA-CA)

DATE: 6111

DESC: SURVEY

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

REPN: P 2523

SUJO: 3-312-100

TITL: SOME EFFECTS OF RADIATION ON MAN (U), 18 P (U)

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08564

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copy: 1 id: 42673-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 08576

ADNO: 241240

AUTH: MILLER C.F.

CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 6005

DESC: Nuclear Weapon Environment radiation decay

DESC: THEORY TABULAR

DESC: Nuclear Weapon Environment Fallout Formation mechanics

DESC: Nuclear Weapon Environment Fallout Particles

REPN: USNRDL TR 425

SUJO: 2-221-000 ; 2-222-000 ; 2-223-400

TITL: THEORY OF FORMATION OF FALLOUT FROM LAND-SURFACE NUCLEAR DETONATIONS  
AND DECAY OF THE FISSION PRODUCTS (U), 120 P (U)

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copy: 1 id: 42683-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08577

ABS: A fall-out computation method should be based on all the dynamics of the fall-out process, but current computation models do not provide more than generalized answers because they do not account for early time dynamics. In the attempt to account for the entire process, a theory for close-in fall-out was originated. This theory was checked by developing from it a mathematical fall-out model for land-surface bursts and then using this model to compute fall-out dose-rate patterns for two low-yield nuclear tests in Nevada. From a comparison of these patterns with the measured test patterns, it is concluded that the theory, as embodied in the D model, is sound, at least for low-yield land-surface bursts. Also, preliminary results indicate that the theory can be used to give accurate computations for bursts in the moderate and high-yield ranges. (auth) COMPUTERS; EARTH; EFFICIENCY; FALLOUT;

ABS: MATHEMATICS; MEASURED VALUES; NUCLEAR EXPLOSIONS; PROGRAMMING; RADIATION DOSES; STANDARDS; SURFACES

ADNO: 236207  
AUTH: ANDERSON A.D.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6004  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
DESC: THEORY EXPERIMENTAL  
REPN: USNRDL TR 410  
SHOT: SUGAR ; UNCLE  
TSHO: UG-VENTED ; SURFACE  
SUJO: 2-225-100  
TITL: NRDL DYNAMIC MODEL FOR FALLOUT FROM LAND-SURFACE NUCLEAR BURSTS (U),  
48 P (U)

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copy: 1 id: 42684-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08578  
ADNO: 260391  
AUTH: KALTWASSER M.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6106  
DESC: THEORY  
DESC: Nuclear Weapon Environment Water Shock bubbles  
DESC: Nuclear Weapon Environment Water Shock velocity arrival time  
spectrum duration  
REPN: USNRDL TR 513  
TSHO: UW  
SUJO: 2-632-000 ; 2-636-000  
TITL: HYDRA PROGRAM UNDERWATER EXPLOSION BUBBLES TIME HISTORY (U), 16 P  
(U)

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08578

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created: 12/27/1991 type: REPORT permanent

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INUM: 08589

ADNO: 256807

AUTH: SHAPIRO E.S. ; HUEBSCH I.O.

CLASS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 6105

DESC: THEORY

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

REPN: USNRDL TR 507

SUJO: 2-223-200

TITL: CALCULATION OF RADIATION DOSE RATE FROM CYLINDRICAL AIRBORNE  
FISSION-PRODUCT SOURCES (U), 31 P (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 08595

ADNO: 655426

AUTH: TOMOEDA S. ; HASTINGS M.B. ; MILLER W.G.

CLASS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 6004

DESC: EXPERIMENTAL

DESC: Cross Sections gamma L1 STEEL

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

external

REPN: USNRDL TR 412

SUJO: 3-312-210 ; 9-830-000

TITL: EXPERIMENTAL DATA OF GAMMA-RAY PENETRATION INTO THE COMPARTMENTS OF  
A LIGHT AIRCRAFT CARRIER (U), 160 P (U)

TREE: 411

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08595

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copy: 1 id: 42701-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08640

ADNO: 287649  
AUTH: ZAGORITES H.A. ; CARR E.A. ; LEE D.Y.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6208  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers  
EFFT: NUCLEAR RADIATION  
REPN: USNRDL TR 577  
SUJO: 3-221-000  
TITL: EFFECTS OF NUCLEAR RADIATION ON SHIPBOARD ELECTRONIC EQUIPMENT, 1.  
SOME EFFECTS OF SIMULATED TRANSIT RADIATION ON PARTS, A. TRANSISTORS  
(U), 234 P (U)  
TREE: 310  
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08640  
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copy: 1 id: 42761-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 08697  
ADNO: 242509  
AUTH: WELLS M.B.  
CLSS: U  
CORP: GD/FORT WORTH DIVISION (FORT WORTH-TX)  
DATE: 6008  
DESC: TABULAR  
DESC: Radiation Transport neutron  
REPN: NARF 60 8 T ; FZK 9 147 VOL 2  
SUJO: 9-650-000  
TITL: MONTE CARLO CALCULATIONS OF FAST-NEUTRON SCATTERING IN AIR (U), 277  
P (U)  
TREE: 970  
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08697  
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copy: 1 id: 42797-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 08700  
ADNO: 242934  
AUTH: MARCUM J.I.  
CLSS: U  
CCDE: ZZ  
CONN: AF 49 (638) 700  
CORP: RAND CORPORATION (SANTA MONICA-CA)  
DATE: 6007

DESC: AIR ; THEORY TABULAR CODE  
DESC: Cross Sections neutron  
DESC: Radiation Transport neutron  
REPN: RM 2556  
SUJO: 9-650-000 ; 9-820-000  
TITL: NEUTRON FLUXES IN AIR, A COMPARISON OF MONTE CARLO CODE COMPUTATIONS  
BY RAND, LOS ALAMOS, AND SANDIA (U), 57 P (U)

TREE: 970

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 08701  
ADNO: 270624  
AUTH: WELLS M.B.  
CLSS: U  
CCDE: C-18  
CONN: DA 23 072 ORD 1407  
CORP: GD/FORT WORTH DIVISION (FORT WORTH-TX)

DATE: 6112  
DESC: THEORY CODE  
DESC: Cross Sections gamma  
DESC: Cross Sections neutron  
DESC: Radiation Transport gamma  
DESC: Radiation Transport neutron

REPN: FZK 134 3  
SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000  
TITL: RADIATION RESISTANT COMBAT VEHICLE INVESTIGATION, FINAL REPORT,  
VOLUME III-MONTE CARLO MULTILAYER SLAB GEOMETRY SHIELDING CODE C-18  
(U), 161 P (U)

TREE: 411 ; 412

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 08764  
AUTH: KINNEY W.E.  
CLSS: U  
CONN: W 7405 ENG 26  
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)  
DATE: 6207  
DESC: Radiation Transport neutron  
DESC: TABULAR THEORY  
REPN: ORNL 3287

SUJO: 9-650-000  
TITL: MONTE CARLO CALCULATION OF SCATTERED NEUTRON FLUXES AT AN AIR-GROUND  
INTERFACEDUE TO POINT ISOTROPIC SOURCES ON THE INTERFACE (U), 34 P  
(U)

TREE: 970

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08764

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copy: 1 id: 42867-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 08965

ADNO: 228281

AUTH: GASKE M.C. ; SPORE R.R. JR.

CLSS: U

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 5907

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: Nuclear Weapon Effects flight systems airplanes L5

EFFT: FALLOUT

REPN: AFSWC TN 59 5 ; SWC TN 59 5

SUJO: 3-111-000 ; 3-312-100

TITL: AIRCRAFT CONTAMINATION FROM RESIDUAL STRATOSPHERIC NUCLEAR WEAPON  
DEBRIS (U), 33 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 08973

ADNO: 232439

AUTH: SCHLEMM C.L. ; ANTHONY A.E. JR. ; BURSON Z.G.

CLSS: U

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 5901

DESC: Cross Sections gamma

DESC: Radiation Transport gamma

DESC: EXPERIMENTAL

REPN: AFSWC TN 59 6 ; SWC TN 59 6

SUJO: 9-620-000 ; 9-830-000

TITL: SCATTERED GAMMA RADIATION MEASUREMENTS FROM A CO 60 CONTAMINATED  
FIELD, TECHNICAL NOTE (U), 117 P (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 08975  
ADNO: 235320  
AUTH: SCHLEMM C.L. ; ANTHONY A.E. JR.  
CLSS: U  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 5906  
DESC: Radiation Transport gamma  
DESC: EXPERIMENTAL  
DESC: Cross Sections gamma  
REPN: AFSWC TN 59 18 ; SWC TN 59 18  
SUJO: 9-620-000 ; 9-830-000  
TITL: SCATTERED GAMMA RADIATION MEASUREMENTS FROM A LANTHANUM-140  
CONTAMINATED FIELD(U), 57 P (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 08976  
ADNO: 235304  
AUTH: BLAYLOCK J.A. ; OMODA E. ; HIPPELI E.M.  
CLSS: U  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6001  
DESC: test instruments nuclear radiation neutron  
DESC: SULFUR ; EXPERIMENTAL  
REPN: AFSWC TN 59 36  
SUJO: 4-342-000  
TITL: SULFUR AS A SENSITIVE TOTAL NEUTRON DOSIMETER, TECHNICAL NOTE (U),  
26 P (U)  
TREE: 652

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09128  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: TEXAS A AND M COLLEGE (COLLEGE STATION-TX) ; LAWRENCE RADIATION  
LABORATORY (LIVERMORE-CA)

DATE: 6207  
DESC: Nuclear Warfare Postattack Recovery resources water L1  
REPN: UCRL 13048  
SUJO: 3-448-200  
TITL: RESEARCH ON RADIOACTIVE CONTAMINATION OF GROUND-WATER AQUIFERS,  
STUDIES OF THEMIGRATION OF RADIOISOTOPES IN HOMOGENEOUS VERTICAL  
COLUMNS, INTERIM REPORT (U), 50 P (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 09149  
AUTH: SMITH A.E.  
CLSS: U  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6104  
DESC: test instruments nuclear radiation gamma  
REPN: AFSWC TN 61 5 ; SWC TN 61 5  
SUJO: 4-341-000  
TITL: TEST RESULTS, NUCLEAR RADIATION MEASURING AND RECORDING SET, A/E 33  
D-1 (XV-1)(U), 13 P (U)

TREE: 651  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 09154  
AUTH: SWIFT L.M.  
CLSS: U  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6101  
DESC: Nuclear Energy Peaceful Applications excavation L1  
DESC: Nuclear Weapon Environment Ground Shock craters excavations  
REPN: UCRL 13029  
SUJO: 2-625-000 ; 3-481-000  
TITL: STUDY OF SOME CRATERING CRITERIA FOR PROJECT CHARIOT (U), 39 P (U)

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copy: 1 id: 43208-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09155  
AUTH: GRINE D.R.  
CLSS: U  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6105  
DESC: EXPERIMENTAL  
DESC: Soil Rock Properties Equation of State Conductivity L1 EOS GRANITE  
SALT

REPN: UCRL 13004  
SUJO: 6-300-000  
TITL: EQUATIONS OF STATE OF GRANITE AND SALT (U), 21 P (U)

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copy: 1 id: 43209-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 09183  
AUTH: MCLAUGHLIN A.G. ; SOLTIS F.S. ; WALKER B.R.  
CLSS: U  
CORP: ZIMNEY CORPORATION (MONROVIA-CA) ; LAWRENCE RADIATION LABORATORY  
(LIVERMORE-CA)

DATE: 6209  
DESC: test instruments nuclear radiation fallout debris sampling  
collectors

DESC: SUMMARY

REPN: UCRL 13054 ; TR 62 0165 2

SUJO: 4-345-000

TITL: FEASIBILITY STUDY OF ROCKET AND LAUNCHING SYSTEMS FOR PARTICULATE  
SAMPLING OF CLOUDS (U), 51 P (U)

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copy: 1 id: 43234-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 09198  
AUTH: LANGHAM W.H. ; BELL P. ; GODFREY L. STEARNS H.  
CLSS: U  
CONN: W 7405 ENG 36  
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)  
DATE: 6003

DESC: BIBLIOGRAPHY

DESC: Nuclear Weapon Effects on animals ionizing radiation

REPN: LAMS 2343

SUJO: 3-312-000

TITL: LITERATURE SEARCH ON THE RELATIVE BIOLOGICAL EFFECTIVENESS (RBE) OF  
IONIZING RADIATIONS (U), 251 P (U)

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09198  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09201  
AUTH: LANGHAM W.H.  
CLSS: U  
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)  
DATE: 6208  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal  
REPN: LADC 5310  
SUJO: 3-312-220  
TITL: RADIATION EXPOSURE TO PEOPLE FROM NUCLEAR WEAPON TESTS THROUGH 1961  
(U), 20 P (U)

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09201  
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copy: 1 id: 43251-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09222  
ABS: Reclamation data from Operation Plumbbob are used to illustrate a method of treating and analyzing such data obtained in field-test experiments. The method utilizes available radiation-scattering computations to estimate the contribution OF radiation sources outside reclaimed areas to the radiation field inside the areas. These contributions are then subtracted to determine a more accurate value of the true effectiveness of the reclamation procedure or procedures.  
ADNO: 219720  
AUTH: MILLER C.F.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5904  
DESC: Experimental  
DESC: Nuclear Warfare recovery decontamination  
DESC: Nuclear Weapon Effects on animals ionizing radiation  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
SHOT: Coulomb C  
REPN: USNRDL TR 321  
SUJO: 2-225-100 ; 3-312-000 ; 3-448-900  
TITL: ANALYSIS OF RADIOLOGICAL DECONTAMINATION DATA OBTAINED FROM FIELD TESTS (U), 79 P (U)

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09222  
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copy: 1 id: 43258-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09236  
AUTH: KNOX J.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6102  
DESC: Nuclear Energy Peaceful Applications resource production water L1  
REPN: UCRL 6326  
SUJO: 3-483-300  
TITL: NUCLEAR EXPLOSIVES POTENTIAL APPLICATIONS TO WATER RESOURCES  
DEVELOPMENT (U), 18 P (U)

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09236  
.endblock

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copy: 1 id: 43269-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 09241  
AUTH: HIGGINS G.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6108  
DESC: Nuclear Energy Peaceful Applications resource production water L1  
REPN: UCRL 6588  
SUJO: 3-483-300  
TITL: WATER CONSERVATION WITH NUCLEAR EXPLOSIVES (U), 9 P (U)

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09241  
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copy: 1 id: 43274-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09253  
AUTH: GRUSH S.G. ; WENSRICH C.J.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6108  
DESC: Solid Mechanics

DESC: equation of state heat of vaporization thermal conductivity opacity  
DESC: BIBLIOGRAPHY  
DESC: Plasma Physics MHD fusion  
REPN: UCRL 6473  
SUJO: 9-200-000 ; 9-500-000 ; 9-710-000  
TITL: ANNOTATED BIBLIOGRAPHY OF THEORIES OF THE EQUATION OF STATE OF  
IONIZED GASES AND STRONG ELECTROLYTE SOLUTIONS (U), 69 P (U)

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09253  
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copy: 1 id: 43286-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09266  
AUTH: YOUNG D.D. JR.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6206  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse  
REPN: UCRL 6889  
SHOT: MINNOW ; COWBOY  
TSHO: UG-CONTAINED  
SUJO: 2-627-000  
TITL: FRACTURE SYSTEMS INDUCED IN A DECOUPLED SHOT CAVITY (U), 78 P (U)

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09266  
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copy: 1 id: 43295-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09270  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: TEXAS AGRICULTURAL AND MECHANICAL COLLEGE (COLLEGE STATION-TX) ;  
LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6106  
DESC: Nuclear Weapon Environment fallout transfer  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects ecological  
REPN: UCRL 13010  
SUJO: 2-224-300 ; 3-341-000  
TITL: MIGRATION OF STRONTIUM THROUGH QUARTZ SAND (U), 50 P (U)

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09270  
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copy: 1 id: 43299-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09383  
ADNO: 373550  
AUTH: HIPPELI E.M. ; SUMMERS D.L.  
CLSS: SRD 1  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 5908  
DESC: Radiation Transport neutron  
DESC: THEORY TABULAR  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum  
REPN: AFSWC TN 59 25 ; SWC TN 59 25  
TSHO: HI-ALT  
SUJO: 1-110-000 ; 1-120-000 ; 9-650-000  
TEMP: 77793  
TITL: RESULTS OF MONTE CARLO NEUTRON PROGRAM FOR A BURST HEIGHT OF 250,000  
FEET (U),39 P (SRD)  
TREE: 920

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copy: 1 id: 43406-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09575  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6110  
DESC: Civil Defense shelters L1  
DESC: Civil Defense economic considerations cost analysis L1  
REPN: UCRL 6654  
SUJO: 3-474-000 ; 3-478-000  
TITL: STUDY OF DESIGN AND COST DATA FOR FAMILY AND SMALL-GROUP FALLOUT  
SHELTERS(U), 37 P (U)

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09575  
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copy: 1 id: 43579-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 09660  
AUTH: FREILING E.C.

CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6106  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment radiation decay isotopic half lives  
DESC: Nuclear Weapon Environment fallout fractionation  
DESC: Nuclear Weapon Environment Fallout isotope concentrations  
SUJO: 2-223-100 ; 2-223-410 ; 2-223-500  
SYMJ: SCIENCE, VOL. 133 (U), 1991 1998 P (U)  
TITL: RADIONUCLIDE FRACTIONATION IN BOMB DEBRIS (U), 7 P (U)

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09660

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copy: 1 id: 43637-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 10924  
ADNO: 705335  
AUTH: TAFEL P.W.  
CLSS: U  
CONN: NBY 37641  
CORP: STAMFORD ENGINEERING LABORATORY (STAMFORD-CT)  
DATE: 6200  
DESC: Nuclear Weapon Effects electrical mechanical pipes valves fittings  
L1 BLAST VALUES BLAST  
DESC: nuclear test detection bomb alarm display systems L1 THERMAL  
DETECTOR  
DESC: Nuclear Weapon Effects structures hard launch sites materials L1  
BLAST PROTECTION  
REPN: NAVDOCKS P 148  
SUJO: 3-116-200 ; 3-236-000 ; 4-920-000  
TITL: INSTALLATION, OPERATION AND MAINTENANCE MANUAL FOR BLAST VALVES,  
THERMAL RADIATION SENSOR AND THERMAL RADIATION TEST EMITTER (U), 92  
P, (U)

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10924

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copy: 1 id: 44762-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 11127  
ADNO: 341165  
AUTH: DAY R.P. ; ALVARES N.J. ; LAUGHRIDGE F.I.  
CLSS: SRD 1  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5901  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1

DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear weapon test yield L1 THERMAL YIELD  
REPN: USNRDL TR 309  
SHOT: SMOKY ; FRANKLIN ; PRAIRIE ; DOPPLER ; SHASTA ; STOKES ; OWENS ;  
KEPLER ; JOHN ; DIABLO ; HOOD ; PRISCILLA ; WILSON ; FRANKLIN ;  
BOLTZMANN  
TSHO: LOW ALT  
SUJO: 1-210-000 ; 1-240-000 ; 4-835-000  
TEMP: 73529  
TITL: AIRBORNE THERMAL RADIATION MEASUREMENTS AT OPERATION PLUMBBOB (U),  
74 P, (SRD)

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11127

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copy: 1 id: 44922-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11942  
ADNO: 512052L  
AUTH: MATHER R.L.  
CLSS: SRD 1  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO CA)  
DATE: 6009  
DESC: Cross Sections neutron L1  
DESC: test instruments nuclear radiation neutron L1  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1 SUBSURFACE MEASUREMENTS  
REPN: USNRDL TR 465  
SHOT: OWENS ; LAPLACE ; WILSON  
TSHO: LOW-ALT  
SUJO: 1-110-000 ; 1-120-000 ; 4-342-000 ; 9-820-000  
TEMP: A8118  
TITL: NEUTRON ENERGY EFFECTS AND INDUCED ACTIVATION (PLUMBBOB  
OBSERVATIONS) (U), 45 P., (SRD)  
TREE: 920

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11942

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copy: 1 id: 45609-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 12123  
ADNO: 514324  
AUTH: BURRELL M.O. ; DOUGLASSS C.C. ; RITCHIE W.B. ; WHITON J.C.  
CLSS: SRD  
CCDE: ZZ (GAMMA TRANSPORT)

CONN: DA 01 009 509 RRD 752  
CORP: LOCKHEED AIRCRAFT CORP / GEORGIA DIV  
DATE: 6105  
DESC: Radiation Transport gamma L1  
DESC: CLOSE IN OBSERVATION ; THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1 WILSON HOOD  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1 WILSON HOOD  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
WITHIN TANK  
REPN: LAC NR 121  
SHOT: WILSON ; HOOD  
TSHO: LOW ALT  
SUJO: 1-110-000 ; 1-710-000 ; 3-312-100 ; 9-620-000  
TEMP: 79089  
TITL: NUCLEAR RADIATION DOSES IN RADIOLOGICALLY SHIELDED VEHICLES (U), 239  
P., (SRD)

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12123  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 12752  
CLSS: U  
CCDE: TECH OPS ; DUSTY III ; PUGH-GALIANO ; ARMY SYSTEM ; SIGNAL CORPS  
SYSTEM ; RADFO ; CIVIL DEFENSE FO  
CORP: DEFENSE ATOMIC SUPPORT AGENCY ; NAVAL RADIOLOGICAL DEFENSE LAB.  
DATE: 6209  
DESC: SUMMARY CODE  
DESC: Nuclear Weapon Environment fallout Deposition L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation L5  
DESC: Nuclear Weapon Phenomenology cloud Motion L1  
SUJO: 2-224-000 ; 2-225-000 ; 3-312-000  
TITL: COMPILATION OF RADIOACTIVE FALLOUT PREDICTION SYSTEMS, VOL. 1 (U),  
139 P., (U)

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copy: 1 id: 46301-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 12753  
CLSS: C 3  
CCDE: AFIC FO MODEL ; SANDIA FO ; DROPSY ; FORD INST.  
CORP: DEFENSE ATOMIC SUPPORT AGENCY ; NAVAL RADIOLOGICAL DEFENSE LAB.  
DATE: 6209



DESC: Nuclear Weapon Environment fallout Deposition L1  
DESC: SUMMARY CODE  
DESC: Nuclear Weapon Phenomenology cloud Motion L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation L1  
SUJO: 2-224-000 ; 2-225-000 ; 3-312-000  
TEMP: A0149  
TITL: COMPILATION OF RADIOACTIVE FALLOUT PREDICTION SYSTEMS, VOL. 2 (U),  
64 P., (C)

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copy: 1 id: 46302-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 12754  
CLSS: U  
CCDE: RAND SIMPLIFIED ; LRL FO ; USWB FO ; USNRDL D ; MILLER-ANDERSON  
CORP: DEFENSE ATOMIC SUPPORT AGENCY ; NAVAL RADIOLOGICAL DEFENSE LAB.  
DATE: 6209  
DESC: SUMMARY CODE  
DESC: Nuclear Weapon Phenomenology cloud Motion L1  
DESC: Nuclear Weapon Environment fallout Deposition L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation L1  
SUJO: 2-224-000 ; 2-225-000 ; 3-312-000  
TITL: COMPILATION OF RADIOACTIVE FALLOUT PREDICTION SYSTEMS, VOL. 3 (U),  
40 P., (U)

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copy: 1 id: 46303-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 13312  
ADNO: 386543  
CLSS: U  
CCDE: PRESS  
CONN: AF 33 (616) 8158  
CORP: AIR FORCE SYSTEMS COMMAND, AERONAUTICAL SYSTEMS DIV.  
(WRIGHT-PATTERSON AFB, OHIO)  
DATE: 6111  
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1  
TRANSFORMERS  
DESC: EMP TREE SIMULATION ; THEORY  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS  
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1  
GAM-77 M-H96 B-58 CONTROL SYSTEM  
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTORS DIODES  
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1  
BAND PASS AMPLIFIER NETWORK AMPLIFIER  
REPN: ASD TDR 62 232  
SUJO: 3-211-000 ; 3-213-000 ; 3-221-000 ; 3-222-000 ; 3-225-000 ;  
3-229-000  
SYST: X-15 ; B-58  
TEMP: A0790  
TITL: STUDY OF SOME RADIATION EFFECTS PROBLEMS WITH RESPECT TO FLIGHT  
CONTROL INSTRUMENTATION (U), CA. 50 P., (U)  
TREE: 398 ; 342

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.endblock  
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copy: 1 id: 46795-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 13500  
AUTH: MCNEILLY J.H. ; KINCH J.W. ; RIGOTTI D.L.  
CLSS: SRD 1  
CORP: ARMY, CHEMICAL CORPS RESEARCH AND DEVELOPMENT COMMAND (ARMY CHEMICAL  
CENTER, MD.)  
DATE: 6007  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
BIOLOGICAL NEUTRON DOSE  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
REPN: D68 10827 ; 12716 ; CRDLR 3008  
SHOT: YUMA ; KICKAPOO ; OSAGE ; BLACKFOOT ; ERIE ; FRANKLIN ; WILSON ;  
PRISCILLA ; OWENS ; SMOKY ; FIG ; HAMILTON ; HUMBOLDT  
TSHO: SURFACE ; LOW-ALT  
SUJO: 1-110-000 ; 3-312-100  
TEMP: A1313  
TITL: MULTIPLE COLLISION THEORY NEUTRON DOSE VERSUS SINGLE COLLISION  
THEORY NEUTRON DOSE (U), 15 P., (SRD)

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copy: 1 id: 46993-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 13505  
AUTH: MAERKER R.E. ; KELLER F.L. ; PENNY S.K. ; ETHRIDGE N.H. ; ZOBEL W. ;  
MUCKENTHALER F.J.  
CLSS: SRD 1  
CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)  
DATE: 6012  
DESC: Cross Sections neutron L1 LEAD IRON POLYETHYLENE INSIDE AND BEHIND  
ARMOR PLATES  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
INSIDE ARMORED TANKS  
DESC: Cross Sections gamma L1  
REPN: D69 01315 ; 16243 ; ORNL 3034  
SHOT: MORA ; LEA ; SOCORRO  
TSHO: SURFACE  
SUJO: 3-312-100 ; 9-820-000 ; 9-830-000  
TEMP: A6097  
TITL: SHIELDING OF TANKS FROM RADIATION DUE TO DETONATION OF NUCLEAR  
DEVICES (U), 115 P., (SRD)

TREE: 411 ; 412

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13505

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copy: 1 id: 46998-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13510  
AUTH: FINK W.L. ; GORDON J.W. ; WHEELER G.A.  
CLSS: SRD 1  
CONN: NAS8 1609  
CORP: GENERAL DYNAMICS, NUCLEAR AEROSPACE RESEARCH FACILITY (FORT WORTH,  
TEX.)  
DATE: 6206  
REPN: D69 01326 ; 17678 ; FZK 146  
TEMP: A1329  
TITL: INVESTIGATION OF RADIATION EFFECTS PROBLEMS IN NUCLEAR HEAT  
EXCHANGER ROCKETS; ANNUAL SUMMARY REPORT (U), 91 P., (SRD)

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13510

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13514  
AUTH: HINKLE N.E. ; WOODS J.W. ; ZUKAS J.C.  
CLSS: SRD 1  
CONN: W 7405 ENG 26  
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)  
DATE: 6112  
REPN: D69 01329 ; 17057 ; ORNL 3226  
TEMP: A1332  
TITL: RADIATION EFFECTS ON STRUCTURAL METALS (U), 65 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 13515  
CLSS: SRD 1  
CORP: WESTINGHOUSE ELECTRIC CORP., ASTRONUCLEAR LAB. (PITTSBURGH, PA.)  
DATE: 6106  
REPN: D69 01330 ; 16586 ; AFFTC TR 61 45 (5)  
TEMP: A1333  
TITL: NUCLEAR ROCKET STUDY, VOL. 5-RADIATION EFFECTS MATERIALS (U), 150  
P., (SRD)

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copy: 1 id: 47010-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 13527  
ADNO: 335237  
CLSS: U  
CONN: AF 33 (616) 7513  
CORP: IBM CORP. (OWEGO, NY)  
DATE: 6102  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
DESC: SIMULATION (REACTOR) ; THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1  
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1  
TREE  
DESC: Nuclear Weapon Effects missile systems tactical L1 ELECTRONICS  
REPN: D69 01382 ; 24285 ; IBM CD 3 260 4449  
SUJO: 3-112-300 ; 3-211-000 ; 3-212-000 ; 3-221-000  
TEMP: A1346  
TITL: RADIATION-RESISTANT COMPUTER FEASIBILITY STUDY; FINAL REPORT FOR  
PHASES I AND II (U), CA. 400 P., (C)  
TREE: 341

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copy: 1 id: 47022-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 13528  
ADNO: 335239  
CLSS: C  
CONN: AF 33 (657) 7475  
CORP: IBM, FSD SPACE GUIDANCE CENTER (OWEGO, NY)  
DATE: 6205  
DESC: Nuclear Weapon Effects materials plastics resins L5  
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 VACUUM TUBES CAPACITORS  
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1  
DESC: TREE NEUTRONS GAMMA RAYS SIMULATION ; THEORY EXPERIMENTAL SURVEY  
DESC: Nuclear Weapon Effects flight systems airplanes L1 ELECTRONICS  
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 DIODES  
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1  
DESC: Nuclear Weapon Effects materials composites L5  
EFFT: TREE  
REPN: D69 01383 ; 24294 ; IBM CD 3 260 4712  
SUJO: 3-111-000 ; 3-211-000 ; 3-212-000 ; 3-221-000 ; 3-222-000 ;  
3-225-000 ; 3-229-000 ; 3-244-000 ; 3-249-000  
TEMP: A1347  
TITL: NUCLEAR RADIATION-RESISTANT COMPUTER TECHNIQUES, STATUS REPORT FOR  
PHASE 4 (U), CA. 350 P., (S)  
TREE: 341

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13528

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copy: 1 id: 47023-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 13529  
ADNO: 335238  
CLSS: C 4  
CONN: AF 33 (616) 7513  
CORP: IBM, FSD SPACE GUIDANCE CENTER (OWEGO, NY)  
DATE: 6111  
DESC: Nuclear Weapon Effects materials metals alloys L1  
DESC: test instruments hardened instruments L1 COMPUTER  
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1  
FLIGHT CONTROL PROPULSION SYSTEM CONTROL  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TUNNEL DIODES GA AS TUNNEL DIODES  
TEMPERATURE TRANSISTORS DIODES  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
DESC: SIMULATION (NUCLEAR REACTOR) TREE ; THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS  
INDUCTORS TUBES TRANSFORMERS MULTI APERTURE RELUCTANCE SWITCH GO TO

SHIFT REGISTER BIASED CORE LOGIC INVERTER CLOCK GENERATOR SQUARE  
WAVE GENERATOR PULSE TRANSFORMER COINCIDENT CURRENT MEMORY INHIBIT  
DRIVER CONTROL LOOPS DIGITAL TO ANALOG CONVERTER MAGNETIC DRUM UNIT  
LOGIC DEVICE

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

REPN: D69 01384 ; 24295 ; IBM CD 3 260 4631

SUJO: 3-211-000 ; 3-212-000 ; 3-221-000 ; 3-222-000 ; 3-229-000 ;  
3-231-000 ; 3-243-000 ; 4-360-000

TEMP: A1348

TITL: RADIATION-RESISTANT COMPUTER FEASIBILITY STUDY, FINAL REPORT FOR  
PHASE 3 (U), CA. 400 P., (C)

TREE: 300 ; 341

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13529

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copy: 1 id: 47024-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13530

ADNO: 341665

AUTH: BUCHTA J.C.

CLSS: SRD 1

CORP: GENERAL ELECTRIC, ELECTRONICS LAB. (SYRACUSE, NM.)

DATE: 6008

DESC: Nuclear Weapon Environment Initial Gamma L1

DESC: SURVEY

DESC: Nuclear Weapon Environment Prompt Neutrons L1

DESC: Nuclear Weapon Effects electronic subsystems computers memory L1

REPN: DF 60 ELS 85

SUJO: 1-100-000 ; 1-700-000 ; 3-212-000

TEMP: A1349

TITL: WEAPON RADIATION EFFECTS AND DIGITAL COMPUTERS (U), 28 P., (SRD)

TREE: 341

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13530

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copy: 1 id: 47025-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13563

ADNO: 345607

CLSS: SRD 1

CONN: AF 33 (616) 8341

CORP: IBM, FSD SPACE GUIDANCE CENTER (OWEGO, NY)

DATE: 6206

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1

SENSE AMPLIFIER

DESC: Nuclear Weapon Effects electronic subsystems computers memory L1

DIGITAL COMPUTER CIRCUITS R-C CIRCUITS DIFFERENTIATOR CIRCUITS  
LINEAR CIRCUITS COMMON COLLECTOR CONFIGURATIONS SWITCHING CIRCUITS  
VOLTAGE REGULATOR

DESC: SIMULATION (SANDIA PULSED REACTOR FACILITY TREE ; THEORY  
EXPERIMENTAL

REPN: D69 01659 ; 31012 ; IBM CD 3 260 4769 A

SUJO: 3-212-000 ; 3-213-000

TEMP: A1384

TITL: RADIATION EFFECTS STUDY OF DIGITAL COMPUTER CIRCUITS AND COMPONENTS,  
VOL. 2 (U), 83 P., (SRD)

TREE: 341

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13563

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copy: 1 id: 47057-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13751

ADNO: 385539

AUTH: MAGEE R.M. ; BROWN G.M. ; ROSEN S.I. ; TAULBEE C.D.

CLSS: SRD 1

CORP: AIR FORCE SYSTEMS COMMAND (WRIGHT-PATTERSON AFB, OHIO)

DATE: 6208

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources L5

DESC: SUMMARY

REPN: ASD TDR 62 242 VOL. 2

SUJO: 4-241-000

SYST: PLUTO ; ROVER ; SLAM

TEMP: A1802

TITL: DESIGN TECHNIQUES FOR FLIGHT CONTROL SYSTEMS IN NUCLEAR RADIATION  
ENVIRONMENTS, VOL. 2 (U), CA. 25 P., (SRD)

TREE: 398 ; 420

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13751

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copy: 1 id: 47205-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13793

ADNO: 324925

AUTH: ABBOTT H.M.

CLSS: C

CONN: AF 04 (647) 564

CORP: LOCKHEED MISSILES AND SPACE CO. (SUNNYVALE, CA.)

DATE: 6107

DESC: Nuclear Weapon Effects ordnance propellants solid L1

DESC: Nuclear Weapon Effects ordnance explosives L1

DESC: X-RAYS GAMMA RAYS ELECTRONS NEUTRONS PROTONS ALPHA AND BETA  
PARTICLES ; BIBLIOGRAPHY

REPN: SB 61 26

SUJO: 3-163-000 ; 3-164-000

TEMP: A0795

TITL: RADIATION EFFECTS ON PROPELLANTS AND EXPLOSIVES; AN ANNOTATED  
BIBLIOGRAPHY (U), 43 P., (C)

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13793

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copy: 1 id: 47244-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13894

ADNO: 342563

AUTH: OESTMANN M.

CLSS: SRD 1

CONN: AF 33 (616) 6564 ; AF 33 (616) 5171

CORP: BATTELLE MEMORIAL INSTITUTE, RADIATION EFFECTS INFORMATION CENTER  
(COLUMBUS, OHIO)

DATE: 5906

DESC: Nuclear Weapon Effects ordnance propellants solid L1

DESC: Nuclear Weapon Effects ordnance explosives L1

DESC: NUCLEAR RADIATION ; BIBLIOGRAPHY SUMMARY

SUJO: 3-163-000 ; 3-164-000

TEMP: A0757

TITL: EFFECT OF NUCLEAR RADIATION ON EXPLOSIVES AND SOLID PROPELLANTS (U),  
20 P., (SRD)

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13894

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copy: 1 id: 47314-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13899

ADNO: 244600

AUTH: ROOTS Y.K. ; PHILLIPS T.D.

CLSS: U

CORP: NAVAL PROPELLANT PLANT (INDIAN HEAD, MD.)

DATE: 6006

DESC: Nuclear Weapon Effects ordnance propellants solid L1 GAMMA ALL  
(DOUBLE-BASE) CDT (HYBRID)

DESC: STEADY STATE IRRADIATION CO-60 ; EXPERIMENTAL

REPN: TM 179

SUJO: 3-164-000

TITL: EFFECT OF GAMMA RADIATION FROM COBALT 60 ON THE MECHANICAL  
PROPERTIES OF SOLID PROPELLANTS ALL AND CDT (U), 8 P., (U)

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13899

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copy: 1 id: 47318-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 13921

CLSS: U

CONN: N 178 7705

CORP: NAVAL WEAPONS LAB. (DAHLGREN, VA.)

DATE: 6105

DESC: THEORY EXPERIMENTAL

REPN: D72 02366 ; 18306 ; F A2424

TEMP: A1458

TITL: PROCEEDINGS OF HERO CONGRESS, 1961, ON HAZARDS OF ELECTROMAGNETIC  
RADIATION TO ORDNANCE (U), CA. 200 P., (U)

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13921

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copy: 1 id: 47335-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 13923

ADNO: 328767

AUTH: RITCHIE R.

CLSS: C 1

CORP: ROYAL AIRCRAFT ESTABLISHMENT

DATE: 6106

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 GE TRANSISTORS

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit  
network L1 TRANSISTOR POWER INVERTOR

DESC: SIMULATION (NUCLEAR REACTOR LIGHT FLASH) TREE PERMANENT RADIATION  
EFFECTS FLASH TEMPERATURE EFFECTS ; THEORY EXPERIMENTAL

LA: UK

REPN: ARM TN 661

SUJO: 3-219-000 ; 3-221-000

TEMP: A1460

TITL: DEVELOPMENT OF A TRANSISTOR POWER INVERTOR FOR ARMAMENT  
APPLICATIONS, WITH SPECIAL REFERENCE TO RELIABILITY AND  
SUSCEPTIBILITY TO NUCLEAR RADIATION (U), CA. 40 P., (C)

TREE: 310

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13923

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copy: 1 id: 47337-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 13928  
ADNO: 327221  
CLSS: U  
CONN: DA 23 072 ORD 1534  
CORP: GENERAL DYNAMICS/FORT WORTH, NUCLEAR RESEARCH AND DEVELOPMENT LAB.  
(FORT WORTH, TEX.)  
DATE: 6112  
DESC: Cross Sections neutron L1 COMBAT VEHICLE SHIELDING  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5  
INSIDE COMBAT VEHICLE  
REPN: D72 02396 ; FZK 133 1  
SUJO: 3-312-100 ; 9-820-000  
TEMP: A1465  
TITL: RADIOLOGICALLY PROTECTED POD STUDY, VOL. 1-DESIGN AND FABRICATION  
(U), 125 P., (U)

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13928

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copy: 1 id: 47342-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14010  
ADNO: 273824  
AUTH: GARDNER R.E.  
CLSS: U  
CONN: NAS 7 100  
CORP: NASA  
DATE: 6112  
DESC: STEADY STATE IRRADIATION (CO-60)/GAMMA ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects ordnance propellants solid L1 PBAA DOUBLE  
BASE POLYURETHANE  
REPN: TR 32 234  
SUJO: 3-164-000  
TITL: EFFECTS OF IONIZING RADIATION ON SOLID ROCKET MOTOR COMPONENTS (U),  
16 P., (U)

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14010

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copy: 1 id: 47418-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 14079  
CLSS: C 3  
CONN: AF 33 (600) 38946  
CORP: CONVAIR (FORT WORTH, TEX.)

DATE: 6007  
REPN: D72 02372 ; 12660 ; NARF 60 28P  
TEMP: A1531  
TITL: NARF PROGRESS REPORT, RADIATION EFFECTS (1 FEBRUARY 1960 THROUGH 31  
JULY 1960) (U), 247 P., (C)

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14079  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 14080  
CLSS: U  
CONN: AF 33 (600) 38946  
CORP: CONVAIR (FORT WORTH, TEX.)  
DATE: 6101  
REPN: D72 02375 ; 14093 ; NARF 61 3P  
TEMP: A1532  
TITL: NARF PROGRESS REPORT, RADIATION EFFECTS (1 AUGUST 1960 THROUGH 31  
JANUARY 1961) 194 P., (U)

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14080  
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copy: 1 id: 47479-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 14081  
CLSS: U  
CONN: AF 33 (600) 38946  
CORP: GENERAL DYNAMICS (FORT WORTH, TEX.)  
DATE: 6107  
REPN: D72 02376 ; 15230 ; NARF 61 28P  
TEMP: A1533  
TITL: NARF PROGRESS REPORT, RADIATION EFFECTS (1 FEBRUARY 1961 THROUGH 31  
JULY 1961) (U), 124 P., (U)

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14081  
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copy: 1 id: 47480-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 14083  
CLSS: U  
CONN: NOW 62 0666 C  
CORP: QUANTATRON, INC. (SANTA MONICA, CA.)

DATE: 6209  
REPN: D72 02392 ; 19234 ; QI 134  
TEMP: A1535  
TITL: HIGH INTENSITY RADIATION DEVICE (U), 48 P., (U)

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14083  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 14085  
ADNO: 337191  
AUTH: HANSEN H.H. ; WINTHER K.T. ; RASMUSSEN F.B. ; VESTERGAARD J.  
CLSS: C 1  
CORP: DANISH DEFENCE RESEARCH BOARD  
DATE: 6212  
REPN: D72 02399 ; 22794 ; D 04 MWP AF 62  
TEMP: A1537  
TITL: DEVELOPMENT OF A LOW COST EXPENDABLE PERSONNEL RADIATION DOSIMETER  
(U), 9 P., (C)

TREE: 655  
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14085

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copy: 1 id: 47484-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 14086  
ADNO: 336525  
AUTH: HANSEN H.H. ; LARSEN C. ; WINTHER K.T.  
CLSS: C 1  
CORP: DANISH DEFENCE RESEARCH BOARD  
DATE: 6212  
REPN: D72 02400 ; 22795 ; D 03 MWP AF 61  
TEMP: A1538  
TITL: DEVELOPMENT AND EVALUATION OF A LOW COST GAMMA RADIATION ANALYSER  
(U), CA. 15 P., (C)

TREE: 651  
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14086

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 14087

ADNO: 335806  
CLSS: C 1  
CONN: DRB 900102  
CORP: RCA VICTOR CO., LTD. (MONTREAL, CANADA)  
DATE: 6212  
LA: CANADA  
REPN: D72 02402 ; 22803  
TEMP: A1539  
TITL: SILICON JUNCTION RADIATION DETECTOR (U), CA. 50 P., (C)  
TREE: 651

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14087

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copy: 1 id: 47486-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 14111  
AUTH: FINK W.L. ; GORDON J.W. ; THOMPSON C.A.  
CLSS: CRD 1  
CONN: NAS 8 1609  
CORP: GENERAL DYNAMICS, NUCLEAR AEROSPACE RESEARCH FACILITY (FORT WORTH,  
TEX.)  
DATE: 6110  
REPN: D72 02361 ; 16244 ; FZK 137  
TEMP: A1563  
TITL: INVESTIGATION OF RADIATION EFFECTS PROBLEMS IN NUCLEAR HEAT  
EXCHANGER ROCKETS, PHASE 1 SUMMARY REPORT (U), 83 P., (CRD)

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14111

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copy: 1 id: 47510-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 14123  
ADNO: 312368  
AUTH: MARCINIAK W.J. ; PHILLIPS T.D.  
CLSS: C 3  
CORP: NAVAL PROPELLANT PLANT (INDIAN HEAD, MD.)  
DATE: 5907  
REPN: D72 02368 ; 10479 ; TMR 159  
TEMP: A1576  
TITL: EFFECT OF GAMMA RADIATION FROM COBALT 60 ON THE MECHANICAL  
PROPERTIES OF AHH AND ARP DOUBLE-BASE SOLID PROPELLANTS (U), 13 P.,  
(C)

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14123

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copy: 1 id: 47522-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 14126  
ADNO: 373708  
AUTH: WALKER R.C. ; SCARBOROUGH J.R.  
CLSS: U  
CORP: CHANCE VOUGHT CORP., AERONAUTICS AND MISSILES DIV. (DALLAS, TEX.)  
DATE: 6207  
REPN: D72 02478 ; 33890  
TEMP: A1579  
TITL: NUCLEAR RADIATION EFFECTS TEST ON THERMAL AND SILVER-ZINC BATTERIES  
(U), CA. 50 P., (U)

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14126  
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copy: 1 id: 47525-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 14206  
CLSS: C 3  
CORP: NAVY, DAVID TAYLOR MODEL BASIN (WASH., D.C.)  
DATE: 6212  
DESC: Nuclear Weapon Effects ship systems surface ships L5 STANDOFF  
DISTANCE SHOCK  
DESC: Nuclear Weapon Effects ship systems submarines L5 SHOCK  
DESC: Nuclear Test Simulation Field Programs concepts capability  
philosophy L5  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L5 SHIPBOARD HAZARD  
DESC: Nuclear Weapon Environment Water Shock special studies temperature  
gradients L5 BOTTOM REFLECTION  
DESC: Target Analysis system studies submarines L5  
REPN: SML 740 21 ; DASA 70178  
TSHO: UW  
SUJO: 2-639-000 ; 3-121-000 ; 3-122-000 ; 3-312-210 ; 3-431-310 ;  
4-810-000  
TEMP: B2422  
TITL: CLASSIFIED TITLE, 34 P., (C)

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14206  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 14448

ADNO: 269871  
AUTH: PECKHAM H.L. JR.  
CLSS: U  
CORP: AIR FORCE INSTITUTE OF TECHNOLOGY (WRIGHT-PATTERSON AFB, OHIO)  
DATE: 6108  
DESC: Nuclear Weapon Effects materials wood paper cellulose films L1  
PHOTOGRAPHIC FILMS SIMULATION (COBALT-60)  
DESC: PARTS ARE ILLEGIBLE ; EXPERIMENTAL  
EFFT: GAMMA  
SUJO: 3-246-000  
TITL: EFFECTS OF GAMMA-RAY RADIATION ON SIX SELECTED  
SATELLITE-RECONNAISSANCE FILMS (U), 60 P., (U)

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14448

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copy: 1 id: 47840-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14516  
AUTH: BONHAM K.  
CLSS: U  
CONN: AT (45 1) 540  
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,  
WASH.)  
DATE: 5912  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake  
L1  
DESC: Nuclear Weapon Environment Fallout beta intensities L1  
DESC: Nuclear Weapon Environment radiation decay beta decay L1  
DESC: ENIWETOK A  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
REPN: UWFL 63  
SUJO: 2-223-300 ; 2-223-430 ; 3-312-220 ; 3-332-220  
TITL: FURTHER CONTRIBUTIONS ON GROSS BETA RADIOACTIVITY OF BIOLOGICAL AND  
RELATED SAMPLES AT THE ENIWETOK PROVING GROUND, 1952-1958 (U), 41  
P., (U)

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14516

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copy: 1 id: 47898-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14517  
AUTH: PALUMBO R.F.  
CLSS: U  
CONN: AT (45 1) 540  
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,

WASH.)

DATE: 5908  
DESC: Nuclear Weapon Environment Fallout beta intensities L5 SEAWATER  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake

L1

DESC: ENIWETOK A BOGOMBOGO I ; EXPERIMENTAL  
REPN: UWFL 61 (DEL.)  
SHOT: NECTAR  
SUJO: 2-223-300 ; 3-332-220  
TITL: GROSS BETA RADIOACTIVITY OF THE ALGAE AT ENIWETOK ATOLL, 1954-1956  
(U), 32 P., (U)

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14517

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copy: 1 id: 47899-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 14520  
ADNO: 269385  
AUTH: SUSSKIND C.  
CLSS: U  
CONN: AF 41 (657) 114  
CORP: UNIVERSITY OF CALIFORNIA, ELECTRONICS RESEARCH LAB. (BERKELEY, CA.)  
DATE: 6106  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals RF microwave L1 MICROWAVES  
SUJO: 3-314-000  
TITL: LONGEVITY STUDY OF THE EFFECTS OF 3-CM MICROWAVE RADIATION ON MICE  
(U), CA. 30 P., (U)

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14520

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copy: 1 id: 47902-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14521  
AUTH: LOWMAN F.G. ; PALUMBO R.F. ; SOUTH D.J. ; WEEKS D.R.  
CLSS: U  
CONN: AT (45 1) 540  
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,  
WASH.)  
DATE: 5901  
DESC: ENIWETOK A ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
REPN: UWFL 57  
SUJO: 2-223-100 ; 3-312-220



TITL: BIOLOGICAL AND GEOGRAPHICAL DISTRIBUTION OF W 185 IN THE VICINITY OF  
THE ENIWETOK TEST SITE, APRIL SEPTEMBER 1958 (U), 37 P., (U)

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14521

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copy: 1 id: 47903-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14527

AUTH: PALUMBO R.F.

CLSS: U

CONN: AT (45 1) 1385

CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY, (SEATTLE,  
WASH.)

DATE: 6202

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake

L1

DESC: BIKINI A ENIWETOK A ; SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1

REPN: UWFL 79

SUJO: 3-312-220 ; 3-332-220

TITL: RADIOACTIVITY IN THE BIOTA AT ISLANDS OF THE CENTRAL PACIFIC 1954  
1958 (U), 63 P., (U)

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14527

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copy: 1 id: 47909-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14528

AUTH: CHAKRAVARTI D. ; HELD E.E.

CLSS: U

CONN: AT (45 1) 540

CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,  
WASH.)

DATE: 6001

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

internal L1

DESC: RONGELAP A ; EXPERIMENTAL

REPN: UWFL 64

SUJO: 3-312-220

TITL: POTASSIUM AND CESIUM 137 IN BURGUS LATRO (COCONUT CRAB) MUSCLE  
COLLECTED AT RONGELAP ATOLL (U), 12 P., (U)

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copy: 1 id: 47910-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 14529  
AUTH: CHAKRAVARTI D. ; EISLER R.  
CLSS: U  
CONN: AT (45 1) 540  
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,  
WASH.)  
DATE: 5903  
DESC: RONGELAP A ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
REPN: UWFL 59  
SUJO: 3-312-220  
TITL: STRONTIUM-90 AND GROSS BETA ACTIVITY IN THE FAT AND NON-FAT  
FRACTIONS OF COCONUT CRAB (BIRGUS LATRO) LIVER COLLECTED AT RONGELAP  
ATOLL DURING MARCH 1958 (U), 10 P., (U)

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14529  
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copy: 1 id: 47911-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 14530  
AUTH: PALUMBO R.F. ; LOWMAN F.G. ; WELANDER A.D. ; WEEKS D.R.  
CLSS: U  
CONN: AT (45 1) 540  
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,  
WASH.)  
DATE: 5902  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic L1  
DESC: ENIWETOK A ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
REPN: UWFL 58  
SHOT: WAHOO  
TSHO: UW  
SUJO: 2-223-100 ; 3-312-200 ; 3-332-200  
TITL: DISTRIBUTION OF RADIOACTIVITY IN SEA WATER AND MARINE ORGANISMS  
FOLLOWING AN UNDERWATER NUCLEAR DETONATION AT THE ENIWETOK TEST SITE  
IN 1958 (U), 47 P., (U)

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14530  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 14966  
AUTH: OLESEN H. ; BENEDICT R.  
CLSS: SRD  
CONN: 04 (694) 202  
CORP: GENERAL ELECTRIC CO., REENTRY SYSTEMS DEPT. (PHILADELPHIA, PA.)  
DATE: 6211  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects reentry systems RV electronics L1 A&F thermal  
batteries silver zinc batteries timers baroswithes magnetic inertial  
switches frangible circuits TIMM LRL station Sandia station ; test  
operations residual radiation contamination L5  
EFFT: TREE ; neutrons ; gamma ; IEMP  
REPN: 62 SD 885  
SHOT: SMALL BOY  
TSHO: SURFACE  
SUJO: 3-113-300 ; 4-856-000  
SYST: MK 3 ; MK 6  
TEMP: 29989  
TITL: NUCLEAR EFFECTS FROM PULSED RADIATION TO ARMING AND FUZING AND  
ELECTRONIC COMPONENTS (U), 142 P., (SRD)  
TREE: 397

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14966

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copy: 1 id: 48252-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 15021  
AUTH: RAYMOND J.P. ; WILLIS J.  
CLSS: U  
CONN: DA 28 043 AMC 00423 (E)  
CORP: NORTHROP CORP. VENTURA DIV. (NEWBURY PARK, CA.) ; UNIVERSITY OF  
CALIF. (LOS ANGELES, CA.)  
DATE: 6000  
DESC: THEORY  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1  
EFFT: TREE  
SUJO: 3-221-000 ; 3-222-000  
TITL: GENERALIZED MODEL ANALYSIS OF IONIZING RADIATION EFFECTS IN  
SEMICONDUCTOR DEVICES (U), 25 P., (U)  
TREE: 250

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15021

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copy: 1 id: 48290-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent  
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INUM: 15072  
AUTH: HOPKINS G.R. ; WEIMAN A.L.A. ; WILLIS D.E.  
CLSS: U  
CONN: DA 36 039 SC 89196  
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)  
DATE: 6212  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLE  
DESC: SIMULATION (LINAC REACTOR) ; EXPERIMENTAL  
EFFT: TREE  
REPN: GA 3616  
SUJO: 3-231-000  
TITL: TRANSIENT RADIATION EFFECTS ON COAXIAL CABLES (U), 43 P., (U)  
TREE: 390

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15072

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copy: 1 id: 48334-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 15075  
AUTH: BOTH E. ; BRUEMMER H.P. ; SCHLOSSER W.  
CLSS: U  
CORP: ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, NJ)  
DATE: 6209  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
DESC: EXPERIMENTAL  
EFFT: TREE  
REPN: AELRDL TR 2313  
SUJO: 3-231-000  
TITL: TRANSIENTS INDUCED IN ELECTRICAL CABLES BY NUCLEAR RADIATION PULSES  
(U), 29 P., (U)  
TREE: 390

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copy: 1 id: 48337-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 15277  
AUTH: PERKINS C.W.  
CLSS: U  
CONN: DA 36 039 SC 89112  
CORP: HUGHES AIRCRAFT CO., GROUND SYSTEMS GROUP (FULLERTON, CA.)  
DATE: 6200  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLE

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 CAPACITORS  
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL  
REPN: FR 63 17 36  
SUJO: 3-229-000 ; 3-231-000  
TITL: TRANSIENT RADIATION EFFECTS ON PASSIVE PARTS; REPORT NO. 1, FIRST  
QUARTERLY PROGRESS REPORT, 1 JUNE 1962 TO 31 AUGUST 1962 (U), 25 P.,  
(U)

TREE: 390 ; 370

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15277

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copy: 1 id: 48510-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15278

AUTH: PERKINS C.W.

CLSS: U

CONN: DA 36 039 SC 89112

CORP: HUGHES AIRCRAFT CO., GROUND SYSTEMS GROUP (FULLERTON, CA.)

DATE: 6200

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 CAPACITORS RESISTORS

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLES

EFFT: TREE

REPN: FR 63 17 37

SUJO: 3-229-000 ; 3-231-000

TITL: TRANSIENT RADIATION EFFECTS ON PASSIVE PARTS; REPORT NO. 2, SECOND  
QUARTERLY PROGRESS REPORT, 1 SEPTEMBER 1962 TO 30 NOVEMBER 1962 (U),  
20 P., (U)

TREE: 390 ; 370

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15278

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copy: 1 id: 48511-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15477

AUTH: HONNOLD V.R. ; EMMERT R.R. ; PEFFLEY W.M.

CLSS: U

CONN: NONR 3653 (00)

CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)

DATE: 6212

DESC: SIMULATION (LINAC) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts materials basic

mechanisms L1 GE CRYSTAL NA CE KCE KB CRYSTALS

EFFT: TREE

REPN: FR62 17 144  
SUJO: 3-220-200  
TITL: INVESTIGATION OF BASIC MECHANISMS OF TRANSIENT HIGH ENERGY RADIATION  
EFFECTS IN INSULATORS AND SEMICONDUCTORS (U), 50 P., (U)

TREE: 200

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15477

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copy: 1 id: 48669-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15710

CLSS: U

CONN: AF 33 (600) 40462

CORP: IBM CORP., FEDERAL SYSTEMS DIV. (OWEGO, N.Y.)

DATE: 6110

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTORS DIODES

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit  
network L1 CATHODE FOLLOWER

DESC: SIMULATION (PULSED REACTOR LINAC) ; EXPERIMENTAL

DESC: Simulation Facilities Techniques TREE L1 LINAC

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources L1

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 TANTALUM CAPACITORS  
CARBON COMPOSITION RESISTORS THYRATRONS

EFFT: TREE

REPN: IBM 61 521 13

SUJO: 3-219-000 ; 3-221-000 ; 3-229-000 ; 3-231-000 ; 4-241-000 ;  
4-272-000

TITL: PULSED RADIATION EFFECTS ON ELECTRONIC COMPONENTS; FOURTH TRIANNUAL  
REPORT (U), 178 P., (U)

TREE: 310 ; 370 ; 380

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15710

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copy: 1 id: 48858-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15736

AUTH: HUNTER E.T. ; WANNEMACHER H.E.

CLSS: U

CORP: ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, NJ)

DATE: 6210

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 GE TRANSISTORS

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL  
EFFT: TREE  
REPN: AELRDL TR 2310  
SUJO: 3-221-000  
TITL: TRANSIENT AND STEADY-STATE NUCLEAR RADIATION EFFECTS ON GERMANIUM  
PNP ALLOY TRANSISTORS (U), 15 P., (U) ALLOY TRANSISTORS (U), 15 P.,  
(U)

TREE: 310

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copy: 1 id: 48883-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15738

AUTH: CALDWELL R.S.

CLSS: U

CONN: AF 33 (616) 7804

CORP: BOEING AIRPLANE CO. (SEATTLE, WASH.)

DATE: 6100

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

EFFT: TREE

REPN: D2 90040

SUJO: 3-221-000

TITL: SOME RECENT RESULTS CONCERNING TRANSIENT RADIATION EFFECTS IN  
TRANSISTORS (U), 25 P., (U)

TREE: 310

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15738

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copy: 1 id: 48885-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15747

CLSS: U

CONN: DA 36 039 SC 85395

CORP: IBM CORP. (OWEGO, NY)

DATE: 6200

DESC: SIMULATION (PULSED REACTOR FLASH X-RAY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 GLASS DIELECTRIC  
CAPACITORS

EFFT: TREE

REPN: IBM 63 521 1

SUJO: 3-229-000

TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON

ELECTRONIC PARTS AND MATERIALS; REPORT NO. 9 (U), 50 P., (U)

TREE: 370

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15747

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copy: 1 id: 48894-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15751

AUTH: MAROTTA C. ; GRUBER C.

CLSS: U

CCDE: EDIT

CONN: DA 49 186 ORD 1012

CORP: UNITED NUCLEAR CORP. (WHITE PLAINS, NY)

DATE: 6208

DESC: THEORY

DESC: Radiation Transport neutron L1

DESC: Radiation Transport gamma L1

REPN: UNC 5031

SUJO: 9-620-000 ; 9-650-000

TITL: DESCRIPTION OF AN IBM-7090 MONTE CARLO PROGRAM FOR THE SOLUTION OF  
THE TIME DEPENDENT NEUTRON AND GAMMA TRANSPORT PROBLEMS IN AN  
ATMOSPHERE WITH DENSITY DEPENDENT ON HEIGHT (U), 73 P., (U)

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copy: 1 id: 48898-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15752

AUTH: KALOS M.H.

CLSS: U

CONN: DA 18 108 405 CML 1007

CORP: UNITED NUCLEAR CORP.

DATE: 6205

DESC: Radiation Transport neutron L1

DESC: Radiation Transport gamma L1

DESC: THEORY

REPN: NDL TR 36 ; UNC 5014

SUJO: 9-620-000 ; 9-650-000

TITL: METHODS IN MONTE CARLO SOLUTION OF THE RADIATION TRANSPORT EQUATION  
(U), 44 P., (U)

TREE: 960 ; 970

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15752

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copy: 1 id: 48899-1001 library: DOCUMENT price: \$.00



cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 15753  
AUTH: COOPER M.J. ; PAYNE M.G.  
CLSS: U  
CORP: DIAMOND ORDNANCE FUZE LABS. (WASH., DC)  
DATE: 6206  
DESC: THEORY  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTORS  
REPN: DOFL TR 975 SUP. 1  
SUJO: 3-221-000  
TITL: NUCLEAR RADIATION DAMAGE TO TRANSISTORS; VOL. 2, PERMANENT DAMAGE;  
PT. 1, THEORETICAL ASPECTS (U), 35 P., (U)  
TREE: 310

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15753

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copy: 1 id: 48900-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 15974  
ADNO: 440293  
AUTH: WIKNER E.G. ; HORIYE H. ; HARRITY J.W. ; VAN LINT V.A.J.  
CLSS: U  
CONN: DA 49 186 3RD 822  
CORP: GENERAL ATOMIC  
DATE: 6204  
DESC: SIMULATION (LINAC PULSED REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts materials basic  
mechanisms L1 GE SI TE  
EFFT: TREE  
REPN: GA 3087  
SUJO: 3-220-200  
TITL: DISPLACEMENT RADIATION EFFECTS (U), 74 P., (U)  
TREE: 200

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15974

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copy: 1 id: 49094-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 15999  
ADNO: 261278  
AUTH: COSGROVE S.L. ; DUELDTGEN R.L.  
CLSS: U

CORP: BATTELLE MEMORIAL INSTITUTE, RADIATION EFFECTS INFORMATION CENTER  
(COLUMBUS, OH.)

DATE: 6105

DESC: SUMMARY

DESC: Nuclear Weapon Effects materials fuels lubricants L1

EFFT: NEUTRON ; GAMMA

REPN: REIC 19

SUJO: 3-238-000

TITL: EFFECT OF NUCLEAR RADIATION ON LUBRICANTS AND HYDRAULIC FLUIDS (U),  
75 P., (U)

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copy: 1 id: 49115-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16026

ADNO: 525484L

AUTH: DAY R.P. ; HOPTON R.L. ; ALVARES N.J. ; ULBERG J.C. ; HAMMOND R.R.

CLSS: SFRD

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 5908

DESC: Nuclear Weapon Environment Thermal Output source strength total

intensity L1 AIRBORNE OBSERVATION

DESC: Nuclear Weapon Environment Thermal Output rate L5

REPN: NRDL TR 330

SHOT: CHEROKEE ; ZUNI ; FLATHEAD ; DAKOTA ; APACHE ; NAVAJO ; TEWA ; HURON

; LACROSSE ; MOHAWK ; INCA ; KICKAPOO

SUJO: 1-210-000 ; 1-240-000

SYST: B-47E ; B-52B ; B-66 ; B-57B ; F-84F ; F-101A

TEMP: A4106

TITL: MEASUREMENT OF THERMAL RADIATION INCIDENT ON USAF AIRCRAFT IN  
FLIGHT, OPERATION REDWING (U), CA. 250 P., (SFRD)

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copy: 1 id: 49133-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16036

ADNO: 331524

CLSS: U

CONN: AF 04 (611) 8188

CORP: THIOKOL CHEMICAL CORP. (ELKTON, MD.)

DATE: 6209

DESC: Solar Phenomena L1 RADIATION ENVIRONMENT OF SPACE

DESC: Nuclear Weapon Effects ordnance propellants solid L1

EFFT: X-RAY

REPN: E139 62  
SUJO: 3-164-000 ; 5-900-000  
TITL: DEVELOPMENT OF SOLID ROCKET PROPELLANT SYSTEM CAPABLE OF  
WITHSTANDING EXTENDED STORAGE IN SPACE ENVIRONMENT (U), 35 P., (U)

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16036  
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copy: 1 id: 49139-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16221  
AUTH: DONALDSON L.R.  
CLSS: U  
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,  
WASH.)  
DATE: 5900  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L5  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L5  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake  
L5  
DESC: SUMMARY  
EFFT: RADIONUCLIDES  
REPN: PACE 21  
SUJO: 2-223-100 ; 3-312-220 ; 3-332-220  
TITL: RADIOBIOLOGICAL STUDIES AT THE ENIWETOK TEST SITE AND ADJACENT AREAS  
OF THE WESTERN PACIFIC (U), 7 P., (U)

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16221  
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copy: 1 id: 49277-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16296  
AUTH: CHAKRAVARTI D. ; HELD E.E.  
CLSS: U  
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,  
WASH.)  
DATE: 6200  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake  
L1  
REPN: PACE 23 ; UFWL 77  
SUJO: 3-312-220 ; 3-332-220  
SYMJ: JOURNAL OF FOOD SCIENCE 1963 V.28 NO. 2 P. 221-228  
TITL: CHEMICAL AND RADIOCHEMICAL COMPOSITION OF THE RONGELAPESE DIET (U),

8 P., (U)

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16296

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copy: 1 id: 49336-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16297

AUTH: DONALDSON L.R.

CLSS: U

CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE, WASH.)

DATE: 6000

DESC: SUMMARY OF SURVEYS

REPN: PACE 24 ; UFWL 64

TITL: EVALUATION OF RADIOACTIVITY IN THE MARINE ENVIRONMENT OF THE PACIFIC PROVING GROUND (U), 11 P., (U)

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16297

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copy: 1 id: 49337-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16299

AUTH: HELD E.E.

CLSS: U

CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY

DATE: 6000

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1

DESC: EXPERIMENTAL SUMMARY

REPN: PACE 15

SUJO: 3-312-220

TITL: LAND CRABS AND FISSION PRODUCTS AT ENIWETOK ATOLL (U), 10 P., (U)

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16299

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copy: 1 id: 49339-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16301

AUTH: WALKER R.B. ; HELD E.E. ; GESSEL S.P.

CLSS: U

CORP: UNIVERSITY OF WASHINGTON

DATE: 6100

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake  
L1 FIELD SURVEY REDUCTION BY FERTILIZING  
DESC: EXPERIMENTAL SUMMARY  
REPN: PACE 39  
SUJO: 3-332-220  
TITL: RADIOCESIUM IN PLANTS GROWN ON RONGELAP ATOLL SOILS (U), 5 P., (U)

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16301

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copy: 1 id: 49341-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16329  
AUTH: PALUMBO R.F.  
CLSS: U  
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,  
WASH.)

DATE: 6200

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on plants integrated effects L1 LONG-TERM  
INVESTIGATION

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic L5

DESC: Nuclear Weapon Environment radiation decay gamma decay L5 P 185

REPN: PACE 12

SHOT: NECTAR

TSHO: SURFACE

SUJO: 2-223-420 ; 3-332-200 ; 3-335-000

TITL: RECOVERY OF THE LAND PLANTS AT ENIWETOK ATOLL FOLLOWING A NUCLEAR  
DETONATION (U), 15 P., (U)

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16329

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copy: 1 id: 49365-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16330  
AUTH: LOWMAN F.G.  
CLSS: U  
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,  
WASH.)

DATE: 6000

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1

DESC: Nuclear Weapon Environment Fallout isotope concentrations L5

DESC: EXPERIMENTAL SUMMARY

REPN: PACE 84

SUJO: 2-223-100 ; 3-312-220

TITL: MARINEBIOLOGICAL INVESTIGATIONS AT THE ENIWETOK TEST SITE (U), 33

P., (U)

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16330

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copy: 1 id: 49366-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16337

AUTH: SEYMOUR A.H.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION, DIVISION OF BIOLOGY AND MEDICINE (WASH., D.C.)

DATE: 5900

DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1

SUJO: 3-312-220

TITL: DISTRIBUTION OF RADIOISOTOPES AMONG MARINE ORGANISMS IN THE WESTERN  
CENTRAL PACIFIC (U), 12 P., (U)

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16337

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copy: 1 id: 49380-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16342

AUTH: PALUMBO R.F.

CLSS: U

CORP: UNIVERSITY OF WASHINGTON

DATE: 6100

DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1

REPN: PACE 22

SUJO: 3-312-220

TITL: DIFFERENCE IN UPTAKE OF RADIOISOTOPES BY MARINE AND TERRESTRIAL  
ORGANISMS (U), 6 P., (U)

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16342

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copy: 1 id: 49385-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16345

AUTH: LOWMAN F.G. ; PALUMBO R.F.

CLSS: U  
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,  
WASH.)  
DATE: 6200  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: EXPERIMENTAL SUMMARY  
REPN: PACE 26  
SUJO: 2-223-100  
TITL: OCCURRENCE OF BISMUTH-207 AT ENIWETOK ATOLL (U), 4 P., (U)

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copy: 1 id: 49388-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16363  
AUTH: VAN LINT V.A.J. ; NICHOLS D.K. ; WEIMAN A.L.A. ; WILLIS D.E. ;  
HOPKINS G.R.

CLSS: U  
CONN: DA 36 039 SC 89196  
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)  
DATE: 6212  
DESC: SIMULATION (LINAC) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects materials metals alloys L1 CU  
DESC: Nuclear Weapon Effects electronic pieceparts materials basic  
mechanisms L1 MG O (-150 TO 700 DEGREES C) GE NITROGEN GAS  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
SIMULATED CABLES

EFFT: GAMMA  
REPN: GA 3609  
SUJO: 3-220-200 ; 3-231-000 ; 3-243-000  
TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONIC PARTS; REPORT NO. 2 (U),  
70 P., (U)  
TREE: 390 ; 200

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16363

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copy: 1 id: 49399-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16365  
AUTH: GERSTEIN B. ; SCHLUETER A. ; FUEYO A.  
CLSS: U  
CONN: DA 36 039 AMC 00002 (E)  
CORP: ADMIRAL CORP. (CHICAGO, IL.)  
DATE: 6212  
DESC: EXPERIMENTAL  
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

SUJO: 4-170-000

TITL: EFFECTS OF NUCLEAR RADIATION ON FREQUENCY CONTROL DEVICES (U), CA.  
50 P., (U)

TREE: 367

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16365

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copy: 1 id: 49400-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16518

ADNO: 306946

AUTH: CARLETON L.T. ; KISPERSKY J.P. ; KLOTZ M.A. ; MISBUCK E. ; VILTER

E.J.

CLSS: U

CONN: AF 33 (616) 5792

CORP: AEROJET-GENERAL CORP. (AZUSA, CA.)

DATE: 5904

DESC: Description No Vulnerability PEP Materials L1

REPN: 0185 01 3

SUJO: 3-950-000

TITL: EFFECT OF HIGH-AND LOW-INTENSITY RADIATION ON SOLID COMPOSITE ROCKET  
PROPELLANTS (U), 50 P., (U)

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16518

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copy: 1 id: 49453-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16520

ADNO: 309284

AUTH: CARLETON L.T. ; KISPERSKY J.P. ; KLOTZ M.A. ; VILTER E.J.

CLSS: U

CONN: AF 33 (616) 5792

CORP: AEROJET-GENERAL CORP. (AZUSA, CA.)

DATE: 5906

DESC: Description No Vulnerability PEP Materials L1

REPN: 0185 01 4

SUJO: 3-950-000

TITL: EFFECT OF HIGH-AND LOW-INTENSITY RADIATION ON SOLID COMPOSITE ROCKET  
PROPELLANTS (U), 40 P., (U)

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16520

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copy: 1 id: 49455-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS



created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 16521  
ADNO: 312787  
AUTH: CARLETON L.T. ; KISPERSKY J.P. ; KLOTZ M.A. ; VILTER E.J. ;  
SALTONSTALL C.W.  
CLSS: U  
CONN: AF 33 (616) 5792  
CORP: AEROJET-GENERAL CORP. (AZUSA, CA.)  
DATE: 5909  
DESC: Description No Vulnerability PEP Materials L1  
REPN: 0185 01 5  
SUJO: 3-950-000  
TITL: EFFECT OF HIGH-AND LOW-INTENSITY RADIATION ON SOLID COMPOSITE ROCKET  
PROPELLANTS (U), 40 P., (U)

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copy: 1 id: 49456-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16522  
ADNO: 314121  
AUTH: CARLETON L.T. ; KISPERSKY J.P. ; KLOTZ M.A. ; SALTONSTALL C.W. ;  
VILTER E.J.  
CLSS: U  
CONN: AF 33 (616) 5792  
CORP: AEROJET-GENERAL CORP. (AZUSA, CA.)  
DATE: 5912  
DESC: Description No Vulnerability PEP Materials L1  
REPN: 0185 01 6  
SUJO: 3-950-000  
TITL: EFFECT OF HIGH-AND LOW-INTENSITY RADIATION ON SOLID COMPOSITE ROCKET  
PROPELLANTS (U), 35 P., (U)

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copy: 1 id: 49457-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16675  
ADNO: 292487  
AUTH: LUCIC A.  
CLSS: U  
CORP: AUTONETICS (ANAHEIM, CA.)  
DATE: 6111  
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1

MAGNETIC CORES MAGNETIC MATERIALS

DESC: EXPERIMENTAL SURVEY

DESC: Nuclear Weapon Effects electronic pieceparts materials basic mechanisms L1 INSULATORS

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors vacuum tubes dielectrics relays switches L1 TA CAPACITORS VACUUM TUBES PHOTOTUBES GAS TUBE RESISTORS

DESC: Nuclear Weapon Effects missile systems strategic electronics L1 MINUTEMAN ELECTRONICS

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes silicon-controlled rectifiers L1

EFFT: TREE

SUJO: 3-112-130 ; 3-220-200 ; 3-221-000 ; 3-225-000 ; 3-229-000

TITL: RADIATION EFFECTS ON COMPUTER CIRCUITRY (U), 50 P., (U)

TREE: 392 ; 341

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16675

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copy: 1 id: 49576-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16702

AUTH: JOHNSON E.R. ; HENLEY E.J. ; STAFFIN R.

CLSS: U

CCDE: ZZ(RADIATION BURST EFFECTS)

CONN: DA 36 039 SC 89148

CORP: STEVENS INSTITUTE OF TECHNOLOGY (HOBOKEN, N.J.)

DATE: 6200

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes silicon-controlled rectifiers L1

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices sensors detectors L1 MAGNETIC MATERIALS

DESC: Nuclear Weapon Effects materials metals alloys L1 AL 2024-T3

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL SURVEY

DESC: Nuclear Weapon Effects electrical mechanical cables wires L5

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors vacuum tubes dielectrics relays switches L1 ELECTRON TUBE

EFFT: TREE

SUJO: 3-221-000 ; 3-224-000 ; 3-229-000 ; 3-231-000 ; 3-243-000

TITL: LITERATURE STUDY OF RADIATION EFFECTS ON ELECTRON DEVICES (U), CA. 100 P., (U)

TREE: 310 ; 343

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16702

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copy: 1 id: 49603-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16783  
ADNO: 264653L  
AUTH: DEGENHART H.J. ; SCHLOSSER W.  
CLSS: U  
CORP: ARMY SIGNAL RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, NJ)  
DATE: 6105  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
DESC: Simulation Facilities Techniques TREE L1 GODIVA  
DESC: EXPERIMENTAL  
REPN: ASRDL TR 2200  
SUJO: 3-229-000 ; 3-231-000 ; 4-272-000  
TITL: PULSED NUCLEAR RADIATION EFFECTS ON ELECTRONIC PARTS AND MATERIALS  
(U), 36 P., (U)  
TREE: 390 ; 642 ; 380 ; 370

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16783

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copy: 1 id: 49663-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16785  
AUTH: SCHLOSSER W. ; LASCARO C.P. ; KEY J.  
CLSS: U  
CORP: ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LAB (FT. MONMOUTH, NJ)  
DATE: 6209  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
EFFT: TREE  
REPN: AELRDL TR 2306  
SUJO: 3-231-000  
TITL: PULSED NUCLEAR RADIATION EFFECTS ON ELECTRONIC PARTS AND MATERIALS  
(U), 45 P., (U)  
TREE: 390 ; 380 ; 343

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copy: 1 id: 49665-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16786  
CLSS: U  
CONN: AF 33 (616) 8341  
CORP: IBM CORP., FEDERAL SYSTEMS DIV. (OWEGO, N.Y.)  
DATE: 6206  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLES  
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1

SMALL COILS

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTORS FET-S DIODES ZENER  
DIODES

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 CERAMIC MICA PAPER TA  
VITAMIN Q CAPACITORS THYRATRONS TRANSFORMERS

DESC: test instruments nuclear radiation dosimeters radiacs L1

DESC: SIMULATION (CO60 PULSED REACTOR FLASH X-RAY) ; EXPERIMENTAL

EFFT: TREE

REPN: IBM 62 521 16

SUJO: 3-221-000 ; 3-225-000 ; 3-229-000 ; 3-231-000 ; 4-346-000

TITL: RADIATION EFFECTS STUDY OF DIGITAL COMPUTER CIRCUITS AND COMPONENTS;  
VOL. 1, (U), CA. 200 P., (U)

TREE: 390 ; 341 ; 310

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16786

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copy: 1 id: 49666-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16795

AUTH: TRIMMER P.A.

CLSS: U

CORP: ARMY, DIAMOND ORDNANCE FUZE LABS. (WASH., D.C.)

DATE: 6208

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTOR

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit  
network L1 POWER CONVERTER

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: DOFL TR 1065

SUJO: 3-219-000 ; 3-221-000

TITL: RADIATION EFFECTS ON TRANSISTORIZED POWER CONVERTERS (U), 25 P., (U)

TREE: 389

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16795

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copy: 1 id: 49675-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16796

AUTH: BOUCHARD G.H.

CLSS: U

CORP: SANDIA CORP.

DATE: 6206

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

DESC: test instruments nuclear radiation gamma L1 X-RAY DOSE + SPECTRUM  
DESC: Nuclear Weapon Effects materials carbon L1  
DESC: Nuclear Weapon Effects electronic pieceparts materials basic  
mechanisms L1 GE  
DESC: Nuclear Weapon Effects materials metals alloys L1 CU AL PB SN W CD  
AS FILTERS ON FLASH X-RAY  
EFFT: X-RAY  
REPN: SCR 524  
SUJO: 3-220-200 ; 3-243-000 ; 3-248-000 ; 4-341-000  
TITL: MEASUREMENT OF BREMSSTRAHLUNG DOSE AND SPECTRUM FROM A 600KVP PULSED  
X-RAY GENERATOR USING PHOTOGRAPHIC FILM (U), 20 P., (U)  
TREE: 642

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copy: 1 id: 49676-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16797  
AUTH: GERSTEIN B. ; SCHLUETER A. ; FUEYO A.  
CLSS: U  
CONN: DA 36 039 SC 85322  
CORP: ADMIRAL CORP. (CHICAGO, IL.)  
DATE: 6206  
DESC: SIMULATION (LINAC CYCLOTRON PULSED REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 QUARTZ CRYSTAL UNIT  
DESC: Nuclear Weapon Effects electronic pieceparts materials basic  
mechanisms L1 QUARTZ CRYSTALS  
EFFT: NEUTRON ; GAMMA ; BETA  
SUJO: 3-220-200 ; 3-229-000  
TITL: EFFECTS OF NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS (PR+C  
61-3LP/D-4206); THIRD QUARTERLY PROGRESS REPORT 23 FEBRUARY THROUGH  
22 MAY 1962 (U), CA. 200 P., (U)

TREE: 367  
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16797  
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copy: 1 id: 49677-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 16799  
AUTH: VAN LINT V.A.J.  
CLSS: U  
CORP: GENERAL DYNAMICS CORP., GENERAL ATOMIC DIV. (SAN DIEGO, CA.)  
DATE: 6204  
DESC: SUMMARY SURVEY  
DESC: Nuclear Weapon Effects electronic pieceparts L5

EFFT: TREE  
REPN: CP 62 1078  
SUJO: 3-220-000  
TITL: MECHANISMS OF TRANSIENT RADIATION EFFECTS IN ELECTRONIC PARTS (U), 5  
P., (U)

TREE: 200

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16799

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copy: 1 id: 49678-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16815

AUTH: STERN H.A. ; FREE J.J. ; LILLER P.R. ; TURNBULL J.C.

CLSS: U

CONN: DA 36 039 SC 89121

CORP: RCA, ELECTRON TUBE DIV. (LANCASTER, PA.)

DATE: 6200

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 ELECTRON TUBES

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects materials ceramics optical L5 DEGASSING OF  
CERAMIC MATERIALS

EFFT: TREE

SUJO: 3-229-000 ; 3-241-000

TITL: RADIATION-INDUCED GAS EFFECTS ON ELECTRON TUBE MATERIALS; FINAL  
PROGRESS REPORT (U), 90 P., (U)

TREE: 305

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16815

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copy: 1 id: 49688-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16816

AUTH: CALME E.E. ; PATTERSON W.J.

CLSS: U

CONN: DA 36 039 SC 90735

CORP: ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, N.J.)

DATE: 6200

DESC: Cross Sections gamma L1 O2 AL SI TI NI MO W

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 ELECTRON TUBE

DESC: THEORY SURVEY

SUJO: 3-229-000 ; 9-830-000

TITL: BASIC RADIATION EFFECTS MECHANISM STUDY ON ELECTRON TUBES; REPORT  
NO. 1 (U), 50 P., (U)

TREE: 305

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16816  
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copy: 1 id: 49689-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16817  
AUTH: SAUR A.J. ; ZACK J.F. JR. ; ANDERMAN A.I.  
CLSS: U  
CONN: MIPR R 62 16 SC 00 93  
CORP: ATOMICS INTERNATIONAL (CANOGA PARK, CA.)  
DATE: 6112  
DESC: THEORY  
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability  
L1 ORGANIC INSULATORS  
EFFT: TREE  
REPN: AI 7506  
SUJO: 4-170-000  
TITL: TRANSIENT RADIATION EFFECTS IN ELECTRONIC MATERIALS (U), 30 P., (U)  
TREE: 385

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16817  
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copy: 1 id: 49690-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 16818  
AUTH: VIDRINE J.L.  
CLSS: U  
CONN: DA 36 039 SC 87306  
CORP: EG+G, INC. (BOSTON, MA.)  
DATE: 6207  
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL  
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources L1 GODIVA II DOSE RATE CURVES TRIGA + KEWB POWER CURVES  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTORS  
EFFT: TREE  
REPN: EGG B 2462  
SUJO: 3-221-000 ; 4-241-000  
TITL: ANALYSIS OF EXPERIMENTAL RADIATION EFFECTS DATA (U), 95 P., (U)  
TREE: 310 ; 642

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16818  
.endblock

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copy: 1 id: 49691-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 16819  
AUTH: HARRISON G.R. ; SCHEIWE J.P.  
CLSS: U  
CONN: DA 36 039 SC 89113  
CORP: SPERRY MICROWAVE ELECTRONICS CO. (CLEARWATER, FL.)  
DATE: 6208  
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio  
microwave systems L1 MICROWAVE FERRITE DUPLEXERS  
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability  
L1 DUPLEXERS CABLES  
DESC: SURVEY  
EFFT: TREE  
REPN: SJ 220 0041 1  
SUJO: 3-132-220 ; 4-170-000  
TITL: STUDY OF PULSED RADIATION EFFECTS ON MICROWAVE FERRITE DUPLEXERS;  
FIRST QUARTERLY REPORT (U), CA. 50 P., (U)  
TREE: 395

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16819  
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copy: 1 id: 49692-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16820  
CLSS: U  
CONN: DA 36 039 SC 85395  
CORP: INTERNATIONAL BUSINESS MACHINES CORP. (OWEGO, N.Y.)  
DATE: 6200  
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1  
FERRITE + TAPE WOUND CORES MAGNETIC TAPE  
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL  
EFFT: TREE  
REPN: IBM 62 521 14  
SUJO: 3-225-000  
TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON  
ELECTRONIC PARTS AND MATERIALS (SCORRE) (U), 35 P., (U)  
TREE: 343

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16820  
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copy: 1 id: 49693-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16878  
AUTH: BELL J.E. ; HELMS R.L. ; PIZAREK R.H. ; WALKER K.R.



CLSS: U  
CONN: AF 29 (601) 4743  
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)  
DATE: 6112  
DESC: THEORY  
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit  
network L1 MULTIVIBRATOR WEIN BRIDGE OSCILLATOR  
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1  
AMPLIFIERS  
EFFT: TREE  
SUJO: 3-213-000 ; 3-219-000  
TITL: THEORETICAL STUDY OF BURST-INDUCED TRANSIENT RADIATION EFFECTS IN  
BASIC ELECTRONIC CIRCUITS (U), 41 P., (U)

TREE: 369

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16878

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copy: 1 id: 49733-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16880

AUTH: SAUR A.J. ; ANDERMAN A.I. ; ZACK J.F. JR.

CLSS: U

CONN: MIPR R 62 16 SC 00 93

CORP: ATOMICS INTERNATIONAL (CANOGA PARK, CA.)

DATE: 6200

DESC: EXPERIMENTAL

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

EFFT: TREE

REPN: AI 7640

SUJO: 4-170-000

TITL: TRANSIENT RADIATION EFFECTS IN ELECTRONIC MATERIALS REPORT NO. 2,  
SECOND QUARTERLY REPORT (1 MAY 1962 TO 31 JULY 1962) (U), 15 P., (U)

TREE: 310 ; 642

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16880

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copy: 1 id: 49735-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16881

AUTH: STANLEY J.M.

CLSS: U

CORP: ARMY ELECTRONICS RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, N.J.)

DATE: 6211

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio

microwave systems L1 QUARTZ CRYSTAL UNITS CR-18/U CR-52/U CR-56/U

CR-27/U CR-54/U CR-19/U

DESC: SIMULATION (PULSED REACTOR LINAC) ; EXPERIMENTAL  
EFFT: TREE  
REPN: AELRDL TR 2320  
TSHO: UG-CONTAINED  
SUJO: 3-132-220  
TITL: EFFECTS OF PULSE NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS (U), 25  
P., (U)  
TREE: 367

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16881

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copy: 1 id: 49736-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16882  
AUTH: PERKINS C.W.  
CLSS: U  
CONN: DA 36 039 SC 90703  
CORP: HUGHES AIRCRAFT CO., NUCLEONICS DIV. (FULLERTON, CA.)  
DATE: 6200  
DESC: SIMULATION (LINAC PULSED REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTORS  
EFFT: TREE  
SUJO: 3-221-000  
TITL: DETERMINATION OF TRANSISTOR FIGURE-OF-MERIT FOR RADIATION EFFECTS  
(U), 40 P., (U)  
TREE: 310

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16882

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copy: 1 id: 49737-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 16883  
AUTH: BURNS G.B. ; COLWELL J.E. ; COMPTON D.M.J. ; DENSON R. ; GUERENA H.  
; KIRKBRIDE J. ; NICHOLS D.K. ; PEREUE J.H. ; VAN LINT V.A.J. ;  
WIKNER E.G.

CLSS: U

CONN: DA 49 186 502 3RD 939

CORP: GENERAL ATOMIC (SAN DIEGO, CA.)

DATE: 6205

DESC: Nuclear Weapon Effects materials metals alloys L1 CU AL TE

DESC: SIMULATION (LINAC) ; THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects materials plastics resins L1 POLYETHYLENE  
FILM

DESC: Nuclear Weapon Effects electronic pieceparts materials basic

mechanisms L1 GE SI MG O (80 DEGREES K AND 300 DEGREES K)

EFFT: TREE  
REPN: GACD 3178  
SUJO: 3-220-200 ; 3-243-000 ; 3-244-000  
TITL: TRANSIENT RADIATION EFFECTS, TECHNICAL SUMMARY REPORT, COVERING THE  
PERIOD APRIL 15, 1962 THROUGH APRIL 14, 1962 (U), CA. 150 P., (U)

TREE: 200

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copy: 1 id: 49738-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16884

AUTH: GERSTEIN B. ; SCHLUETER A. ; FUEYO A.

CLSS: U

CONN: DA 36 039 SC 85322

CORP: ADMIRAL CORP. (CHICAGO, IL.)

DATE: 6203

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio  
microwave systems L1 QUARTZ CRYSTAL UNITS CR-18/U CR(XM-17) CR-19/U  
CR-52/U CR-54/U CR-47/U

DESC: SIMULATION (LINAC CYCLOTRON) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-132-220

TITL: EFFECTS OF NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS (PR+C  
61-ELP/D-4206) (U), CA. 200 P., (U)

TREE: 367

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16885

AUTH: OROURKE R.C. ; STEFFY W.A. ; WYMAN J. ; VACCA S.

CLSS: U

CONN: DA 36 039 SC 87306

CORP: EG+G, INC. (BOSTON, MA.)

DATE: 6203

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources L1 GODIVA II DOSE RATE

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTORS

EFFT: TREE

SUJO: 3-221-000 ; 4-241-000

TITL: ANALYSIS OF EXPERIMENTAL RADIATION EFFECTS DATA (U), 65 P., (U)

TREE: 310

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copy: 1 id: 49740-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16886

AUTH: STERN H.A. ; FREE J.J.

CLSS: U

CONN: DA 36 039 SC 89121

CORP: RCA, ELECTRON TUBE DIV. (LANCASTER, PA.)

DATE: 6100

DESC: EXPERIMENTAL

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

EFFT: TREE

SUJO: 4-170-000

TITL: RADIATION-INDUCED GAS EFFECTS ON ELECTRON TUBE MATERIALS; SECOND  
QUARTERLY PROGRESS REPORT 1 OCTOBER 1961 TO 31 DECEMBER 1961 (U), 25  
P., (U)

TREE: 305

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copy: 1 id: 49741-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16916

AUTH: PLANKIS E.P.

CLSS: U

CONN: DA 36 039 SC 87253

CORP: GENERAL ELECTRIC CO., POWER TUBE DEPT. (SCHENECTADY, N.Y.)

DATE: 6100

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio  
microwave systems L1 VTM Z-5312 Z5428 Z5337 MAGNETRON A4J52A

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 VACUUM TUBE

DESC: SIMULATION (PULSED REACTOR ACCELERATOR) ; EXPERIMENTAL

SUJO: 3-132-220 ; 3-229-000

TITL: RADIATION EFFECTS ON MICROWAVE DEVICES; REPORT NO. 2, SECOND  
QUARTERLY PROGRESS REPORT (U), CA. 50 P., (U)

TREE: 305

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copy: 1 id: 49760-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16917  
AUTH: DONOVAN A. ; FUEYO A. ; SCHLUETER A.  
CLSS: U  
CONN: DA 36 039 SC 85322  
CORP: ADMIRAL CORP. (CHICAGO, IL.)  
DATE: 6109  
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio  
microwave systems L1 Q CRYSTAL UNITS CR-18/U CR-(XM-17)/U CR-19/U  
CR-52/U CR-54/U CR-50/U CR-47/U  
DESC: SIMULATION LINAC ; EXPERIMENTAL  
EFFT: NEUTRON  
SUJO: 3-132-220  
TITL: EFFECTS OF NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS; REPORT NO. 1,  
INTERIM FINAL REPORT (U), CA. 200 P., (U)  
TREE: 367

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16917  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16920  
CLSS: U  
CONN: DA 36 039 SC 85395  
CORP: IBM CORP. (OWEGO, N.Y.)  
DATE: 6109  
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability  
L1 GLASS-DIELECTRIC CAPACITORS  
EFFT: TREE  
SUJO: 4-170-000  
TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON  
ELECTRONIC PARTS AND MATERIALS; REPORT NO. 5 (U), 15 P., (U)  
TREE: 370

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 16921  
CLSS: U  
CONN: DA 36 039 SC 85395  
CORP: IBM CORP. (OWEGO, N.Y.)  
DATE: 6100

DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1  
FERRITE MEMORY CORES FERRITE + PERMALLOY SWITCH CORES TAPE WOUND  
CORES

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: IBM 61 928 26

SUJO: 3-225-000

TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON  
ELECTRONIC PARTS AND MATERIALS (SCORRE); REPORT NO. 4 (U), 45 P. (U)

TREE: 343

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copy: 1 id: 49764-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16922

AUTH: OROURKE R.C.

CLSS: U

CONN: DA 36 039 SC 87306

CORP: EG+G, INC. (BOSTON, MA.)

DATE: 6201

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L5

DESC: THEORY

EFFT: TREE

REPN: EGG B 2347

SUJO: 3-221-000

TITL: ANALYSIS OF EXPERIMENTAL RADIATION EFFECTS DATA; REPORT NO. 2 (U),  
10 P., (U)

TREE: 310

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copy: 1 id: 49765-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16923

AUTH: KEISTER G.L.

CLSS: U

CONN: AF 33 (616) 7804

CORP: BOEING CO. (SEATTLE, WASH.)

DATE: 6100

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit  
network L1 FLIP-FLOP CIRCUITS CATHODE FOLLOWER

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1  
AMPLIFIERS

DESC: SIMULATION (PULSED REACTOR FLASH X-RAY) ; EXPERIMENTAL

EFFT: TREE  
REPN: D2 90044  
SUJO: 3-213-000 ; 3-219-000  
TITL: ANALOG COMPUTER PREDICTION OF TRANSIENT NUCLEAR RADIATION EFFECTS  
(U), 35 P., (U)

TREE: 369

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copy: 1 id: 49766-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16925

AUTH: GERSTEIN B. ; SCHLEUTER A. ; FUEYO A.

CLSS: U

CONN: DA 36 039 SC 85322

CORP: ADMIRAL CORP. (CHICAGO, IL.)

DATE: 6112

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio

microwave systems L1 QUARTZ CRYSTALS

DESC: SIMULATION (LINAC CYCLOTRON) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-132-220

TITL: EFFECTS OF NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS (PR+C  
61-ELP/D-4206) (U), CA. 50 P., (U)

TREE: 367

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copy: 1 id: 49768-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16926

CLSS: U

CONN: DA 36 039 SC 85395

CORP: IBM CORP. (OWEGO, N.Y.)

DATE: 6100

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 GLASS CAPACITORS

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: IBM 62 521 3

SUJO: 3-229-000

TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON  
ELECTRONIC PARTS AND MATERIALS; REPORT NO. 6 (U), 40 P., (U)

TREE: 370

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copy: 1 id: 49769-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16927  
CLSS: U  
CONN: AF 33(616) 7804  
CORP: BOEING CO. (SEATTLE, WASH.)  
DATE: 6201  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTORS POWER DIODES  
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit  
network L1 MULTIVIBRATOR CATHODE FOLLOWER  
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1  
AMPLIFIERS  
DESC: Simulation Facilities Techniques TREE L1 KUKLA GODIVA  
DESC: SIMULATION (PULSED REACTOR FLASH X-RAY) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 RESISTORS TANTALUM  
VITAMIN Q SILVER MICA CAPACITORS  
EFFT: TREE  
REPN: D2 9878  
SUJO: 3-213-000 ; 3-219-000 ; 3-221-000 ; 3-229-000 ; 4-272-000  
TITL: PREDICTION OF TRANSIENT NUCLEAR RADIATION EFFECTS IN ELECTRONIC  
CIRCUITS (U), 90 P., (U)  
TREE: 310 ; 370

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copy: 1 id: 49770-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16928  
AUTH: PLANKIS E.P.  
CLSS: U  
CONN: DA 36 039 SC 87253  
CORP: GENERAL ELECTRIC CO., POWER TUBE DEPT. (SCHENECTADY, N.Y.)  
DATE: 6200  
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLE  
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio  
microwave systems L1 VOLTAGE TUNABLE MAGNETRON  
EFFT: TREE  
SUJO: 3-132-220 ; 3-231-000  
TITL: RADIATION EFFECTS ON MICROWAVE DEVICES; REPORT NO. 3 (U), 85 P., (U)  
TREE: 395

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16928



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copy: 1 id: 49771-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16929  
AUTH: KOSENKRANIUS L.  
CLSS: U  
CORP: BOEING CO. (SEATTLE, WASH.)  
DATE: 6200  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTORS  
DESC: COMPUTER SIMULATION ; THEORY  
EFFT: TREE  
REPN: AIEE CP 62 1082  
SUJO: 3-221-000 ; 3-229-000  
TITL: ANALOG COMPUTER TECHNIQUES FOR THE PREDICTION OF TRANSIENT NUCLEAR  
RADIATION EFFECTS ON TRANSISTOR CIRCUITS (U), 20 P., (U)  
TREE: 310 ; 370

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copy: 1 id: 49772-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16930  
AUTH: TRIMMER P.A.  
CLSS: U  
CORP: DIAMOND ORDNANCE FUZE LABS. (WASH., D.C.)  
DATE: 6200  
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit  
network L1 POWER CONVERTER  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 TRANSISTORS  
EFFT: TREE  
REPN: AIEE CP 62 1192  
SUJO: 3-219-000 ; 3-221-000  
TITL: RADIATION EFFECTS ON TRANSISTORIZED POWER CONVERTERS (U), 12 P., (U)  
TREE: 389

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copy: 1 id: 49773-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16931  
AUTH: CALDWELL R.S. ; GAGE D.S. ; HANSON G.H.  
CLSS: U  
CORP: BOEING CO. (SEATTLE, WASH.) ; NORTHWESTERN UNIV. (EVANSTON, IL.) ;  
UNIV. OF WASH. (SEATTLE, WASH.)  
DATE: 6200  
DESC: SIMULATION (FLASH X-RAY PULSED REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
EFFT: TREE  
REPN: AIEE 62 1081  
SUJO: 3-221-000  
TITL: TRANSIENT BEHAVIOR OF TRANSISTORS DUE TO IONIZING RADIATION PULSES  
(U), 20 P., (U)  
TREE: 310

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copy: 1 id: 49774-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16962  
AUTH: TURNBULL J.C. ; STERN H.A. ; LILLER P.R.  
CLSS: U  
CONN: DA 36 039 SC 89121  
CORP: RCA, ELECTRON TUBE DIV. (LANCASTER, PA.)  
DATE: 6100  
DESC: Nuclear Weapon Effects materials plastics resins L1  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 ELECTRON TUBES  
DESC: GAS EVOLUTION ; SURVEY  
EFFT: TREE  
SUJO: 3-229-000 ; 3-244-000  
TITL: RADIATION-INDUCED GAS EFFECTS ON ELECTRON TUBE MATERIALS; FIRST  
QUARTERLY PROGRESS REPORT 1 JULY 1961 TO 30 SEPTEMBER 1961 (U), 50  
P., (U)  
TREE: 305

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copy: 1 id: 49801-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 16964  
AUTH: VAN LINT V.A.J.  
CLSS: U

CONN: DA 49 186 ORD 939  
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)  
DATE: 6201  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L5  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L5  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L5  
DESC: SUMMARY  
EFFT: TREE  
REPN: GA 2886  
SUJO: 3-221-000 ; 3-229-000 ; 3-231-000  
TITL: MECHANISMS OF TRANSIENT RADIATION EFFECTS, STATE OF THE ART, (U), 12  
P., (U)

TREE: 200

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copy: 1 id: 49803-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16965

AUTH: PUTTCAMP R.

CLSS: U

CORP: ARMY, DIAMOND ORDNANCE FUZE LABS. (WASH., D.C.)

DATE: 6111

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 TRANSISTORS

EFFT: TREE

REPN: DOFL TR 975

SUJO: 3-221-000

TITL: NUCLEAR RADIATION DAMAGE TO TRANSISTORS; VOL. 1, PERMANENT DAMAGE,  
PART 1, DATA (U), 160 P., (U)

TREE: 310

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16965

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copy: 1 id: 49804-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16966

AUTH: PLANKIS E.P. ; MAGNUSON R.A.

CLSS: U

CORP: GENERAL ELECTRIC CO., POWER TUBE DEPT. (SCHENECTADY, N.Y.)

DATE: 6200

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

SUJO: 4-170-000  
TITL: RADIATION EFFECTS ON MICROWAVE DEVICES, REPORT NO. 5, FIFTH  
QUARTERLY PROGRESS REPORT 1 JULY 1962 THROUGH 30 SEPTEMBER 1962 (U),  
20 P., (U)

TREE: 642

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copy: 1 id: 49805-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16967

AUTH: PLANKIS E.P. ; MAGNUSON R.A.

CLSS: U

CONN: DA 36 039 SC 87253

CORP: GENERAL ELECTRIC CO., POWER TUBE DEPT. (SCHENECTADY, N.Y.)

DATE: 6200

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

DESC: SURVEY

EFFT: TREE

SUJO: 4-170-000

TITL: RADIATION EFFECTS ON MICROWAVE DEVICES, REPORT NO. 6, SIXTH  
QUARTERLY PROGRESS REPORT 1 OCTOBER 1962 THROUGH 31 DECEMBER 1962  
(U), 40 P., (U)

TREE: 305

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16967

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copy: 1 id: 49806-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16968

AUTH: WINSLOW J.W. ; HART R.R.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 6209

DESC: SIMULATION (VAN DE GRAAFF)

DESC: Nuclear Weapon Effects electronic pieceparts materials basic  
mechanisms L1 BI 2 TE 3

REPN: NRDL TR 581

SUJO: 3-220-200

TITL: RADIATION EFFECTS IN THERMOELECTRICS 1. TECHNIQUES FOR DETECTION OF  
TRANSIENT EFFECTS AND THEIR APPLICATION TO COMMERCIAL GRADE BISMUTH  
TELLURIDE (U), 80 P., (U)

TREE: 200

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copy: 1 id: 49807-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16999

AUTH: SCHMIDT F.J.

CLSS: U

CONN: AF 33 (616) 8096

CORP: GENERAL ELECTRIC (OWENSBORO, KY.)

DATE: 6212

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 DIODES TRIODES PEUTODES

DESC: SIMULATION (REACTOR) 580 DEGREES C ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

TIMM CIRCUITS

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 CAPACITORS RESISTORS

DESC: Nuclear Weapon Effects electronic pieceparts materials basic

mechanisms L1

EFFT: TREE ; GROUND-SHOCK

REPN: ASD TDR 62 1039

SUJO: 3-220-200 ; 3-221-000 ; 3-222-000 ; 3-229-000

TITL: RESEARCH AND INVESTIGATION ON RADIATION RESISTANT HIGH TEMPERATURE

THERMIONIC CIRCUITRY (U), 82 P., (U)

TREE: 310 ; 420

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copy: 1 id: 49828-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17001

AUTH: PLANKIS E.P.

CLSS: U

CONN: DA 36 039 SC 87253

CORP: GENERAL ELECTRIC CO., POWER TUBE DEPT. (SCHENECTADY, N.Y.)

DATE: 6200

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electrical mechanical cables wires L5 CABLES

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio

microwave systems L1 Z-5312 Z-5337 Z-5428 VOLTAGE TUNABLE MAGNETRONS

EFFT: TREE

SUJO: 3-132-220 ; 3-231-000

TITL: RADIATION EFFECTS ON MICROWAVE DEVICES; REPORT NO. 4, FOURTH

QUARTERLY PROGRESS REPORT (U), 62 P., (U)

TREE: 395

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copy: 1 id: 49830-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17009  
AUTH: HARRISON G.R. ; SCHEIWE J.P.  
CLSS: U  
CONN: DA 36 039 SC 89113  
CORP: SPERRY MICROWAVE ELECTRONICS CO. (CLEARWATER, FL.)  
DATE: 6211  
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio  
microwave systems L1  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLES  
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL  
EFFT: TREE  
REPN: SJ 222 0041 2  
SUJO: 3-132-220 ; 3-231-000  
TITL: STUDY OF PULSED RADIATION EFFECTS ON MICROWAVE FERRITE DUPLEXERS;  
REPORT NO. 2, SECOND QUARTERLY REPORT, 1 AUGUST 1962 TO 31 OCTOBER  
1962 (U), CA. 100 P., (U)  
TREE: 390 ; 395

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copy: 1 id: 49838-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17022  
ADNO: 255920  
AUTH: ANTHONY A.E. JR.  
CLSS: U  
CCDE: RAND  
CORP: AIR FORCE SPECIAL WEAPONS CENTER (KIRTLAND AFB, N.M.)  
DATE: 6101  
DESC: Radiation Transport neutron L1  
DESC: TABULAR  
REPN: AFSWC TN 61 2  
SUJO: 9-650-000  
TITL: TRANSPORT OF NEUTRONS THROUGH THE ATMOSPHERE FOR A BURST HEIGHT OF  
50,000 FEET (U), 35 P., (U)  
TREE: 970

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copy: 1 id: 49849-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17023  
ADNO: 299192L  
AUTH: GEORGE M.S. ; MALCOLM L. ; CHAMPION G.P.  
CLSS: U  
CCDE: SPARC ; ZZ (TRANSIENT CIRCUIT CHARACTERISTICS)  
CONN: DA 36 039 SC 90738  
CORP: NORTHROP CORP., VENTURA DIV. (VAN NUYS, CA)  
DATE: 6200  
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit  
network L1  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1  
DESC: Nuclear Warfare Theater C3I L1  
EFFT: NEUTRON ; TREE  
REPN: NVO 2640 2  
SUJO: 3-161-100 ; 3-219-000 ; 3-412-200  
TITL: EQUIPMENT DESIGN PRACTICES AND TECHNIQUES FOR THE NUCLEAR RADIATION  
ENVIRONMENT, REPORT NO. 2, (U), 75 P., (U)

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copy: 1 id: 49850-1001 library: DOCUMENT price: \$.00  
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created: 12/27/1991 type: REPORT permanent

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INUM: 17099-043  
AUTH: RAINEY S.C.  
CLSS: SRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6200  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
TSHO: WATER-SURFACE ; UW  
SUJO: 2-225-100  
SYMJ: WEAPONS AND WEAPONS EFFECTS; THE SIXTH NAVY SCIENCE SYMPOSIUM; VOL.  
3  
TITL: FALLOUT FROM NUCLEAR EXPLOSIONS ON THE WATER SURFACES (U), 31 P.,  
(SRD)

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17099-043

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17386  
AUTH: HANKINS D.E. ; KING W.C.  
CLSS: U  
CONN: AT (10 1) 205  
CORP: ATOMIC ENERGY COMMISSION

DATE: 6012  
DESC: THEORY  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
EFFT: BETA  
REPN: IDO 16632  
SUJO: 3-312-220  
TITL: METHOD OF CALCULATING LUNG DOSE RECEIVED FROM A CONFINED CLOUD OF  
RADIOACTIVE GAS (U), 27 P., (U)

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17386  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 17400  
AUTH: WATSON B.B.  
CLSS: U  
CORP: JOHNS HOPKINS UNIVERSITY, OPERATIONS RESEARCH OFFICE (BETHESDA, MD.)  
DATE: 6004  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1  
REPN: ORO SP 127  
SUJO: 3-312-200  
TITL: SYMPOSIUM ON THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER  
59 (U), 80 P., (U)

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17400  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 17400-03  
AUTH: SACHER G.A.  
CLSS: U  
CORP: ARGONNE NATIONAL LAB. (LEMONT, IL.)  
DATE: 6004  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1  
DESC: SUMMARY  
SUJO: 3-312-200  
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER  
59  
TITL: PROBLEMS IN THE EXTRAPOLATION OF LONG-TERM EFFECTS FROM ANIMALS TO  
MAN (U), 8 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 17400-11  
AUTH: BERLIN N.I.  
CLSS: U  
CORP: NATIONAL INSTITUTES OF HEALTH, NATIONAL CANCER INSTITUTE (BETHESDA,  
MD.)  
DATE: 6004  
DESC: THEORY  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1  
SUJO: 3-312-200  
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER  
59  
TITL: EFFECT OF CHRONIC IONIZING RADIATION ON THE LIFE SPAN OF MAN (U), 6  
P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 17400-19  
AUTH: BOONE I.U.  
CLSS: U  
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, N.M.)  
DATE: 6004  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1  
SUJO: 3-312-210  
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER  
59  
TITL: INCIDENCE OF TUMORS IN ANIMALS EXPOSED TO WHOLE-BODY RADIATION (U),  
19 P., (U)

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17400-19

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created: 12/27/1991 type: REPORT permanent  
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INUM: 17400-39  
AUTH: HEMPELMANN L.H.  
CLSS: U  
CORP: UNIVERSITY OF ROCHESTER, STRONG MEMORIAL HOSPITAL (ROCHESTER, N.Y.)  
DATE: 6004  
DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1  
SUJO: 3-312-210  
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER  
59  
TITL: MALIGNANT DISEASE IN POPULATION GROUPS EXPOSED TO IONIZING RADIATION  
(U), 11 P., (U)

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17400-39

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created: 12/27/1991 type: REPORT permanent

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INUM: 17400-51  
AUTH: BROWN D.V.L.  
CLSS: U  
CORP: UNIVERSITY OF ILLINOIS (CHICAGO, IL.)  
DATE: 6004  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1

DESC: EXPERIMENTAL  
SUJO: 3-312-210  
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER  
59

TITL: RADIATION CATARACTS IN ANIMALS (U), 8 P., (U)

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17400-51

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created: 12/27/1991 type: REPORT permanent

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INUM: 17400-59  
AUTH: COGAN D.G.  
CLSS: U  
CORP: HARVARD UNIVERSITY MEDICAL SCHOOL  
DATE: 6004  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1

SUJO: 3-312-210  
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER  
59

TITL: RADIATION CATARACTS IN MAN (U), 12 P., (U)

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17400-59

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cat1: cat2: home: STACKS current: STACKS  
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INUM: 17400-73  
AUTH: GRAHN D.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION  
DATE: 6004  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1  
DESC: EXPERIMENTAL  
SUJO: 3-312-210  
SYMJ: SYMPOSIUM OF THE DELAYED EFFECTS OF WHOLE-BODY RADIATION, 29 OCTOBER  
59  
TITL: GENETIC ALTERATIONS IN ANIMALS AND MAN (U), 7 P., (U)

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17400-73

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 17401  
ADNO: 232225  
AUTH: KSANDA C.F. ; LAUMETS E.  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 5909  
DESC: Radiation Transport gamma L5  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
REPN: NRDL TR 361  
SUJO: 2-223-200 ; 9-620-000  
TITL: COMPUTATION OF EARLY-TIME FISSION PRODUCT DOSE-RATE SPECTRA AND  
GAMMA-RAY AIR ATTENUATION (U), 34 P., (U)

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17401

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copy: 1 id: 50160-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 17588  
AUTH: NEALL W.G.  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6005  
DESC: Environmental Impact Assessments EIS Supporting Data L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L5

DESC: Nuclear Weapon Test safety L1  
DESC: SIMULATION (HE) ; EXPERIMENTAL  
REPN: NRDL TR 423  
SHOT: HYDRA 1  
TSHO: UW  
SUJO: 3-312-210 ; 4-856-000 ; 4-870-200  
TITL: RADIOLOGICAL SAFETY REPORT, HYDRA I AT DAVID TAYLOR MODEL BASIN,  
WASHINGTON, D.C. (U), 32 P., (U)

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17588  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 17650

ABS: Aircraft flying in the stratosphere encounter some buildup of radioactive contamination on their surfaces because of the reservoir of nuclear debris placed in the stratosphere by the detonation of atomic and thermonuclear weapons. Guidelines, based on the recommendations of the national committee on radiation protection, are presented for use in evaluating the radiation exposure to personnel resulting from this buildup. Experimental studies show that the hazard to persons who work on aircraft contaminated with mixed fission products can be adequately defined by a simple beta-gamma survey of the immediate area where work is being performed. The contribution to the total radiation dose from inhalation of resuspended debris or ingestion from hand contamination is unimportant, ranging from factors of 100 or more below that contributed by the external dose.

ABS: The levels of radiation now present on aircraft are such that it is highly improbable that anyone would ever receive exposure in excess of permissible limits; control of personnel for radiological health reasons and decontamination of aircraft are, therefore, unnecessary.

AUTH: DICK J.L. ; GASKE M.C. ; KILEY L.A.JR.  
CLSS: U  
CORP: AIR FORCE SPECIAL WEAPONS CENTER (KIRTLAND AFB, N.M.)  
DATE: 5904  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1  
EFFT: GAMMA ; BETA  
REPN: AFSWC TN 59 29  
SUJO: 3-312-200  
TITL: EVALUATION OF PERSONNEL EXPOSURE FROM STRATOSPHERIC FISSION FRAGMENT  
CONTAMINATION ON AIRCRAFT (U), 30 P., (U)

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17650  
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created: 12/27/1991 type: REPORT permanent

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INUM: 17670  
ADNO: 373283  
AUTH: PETERSON R.H. ; WILLIAMS J.A.  
CLSS: SRD  
CORP: ARMY BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)  
DATE: 6102  
DESC: TABULAR  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
DESC: Nuclear Weapon Effects land transport armored vehicles L1  
DESC: Cross Sections gamma L1  
REPN: BRL MR 1319  
SUJO: 3-151-000 ; 3-312-100 ; 9-830-000  
TEMP: A5425  
TITL: DEPENDENCE OF TANK CREW SURVIVAL PROBABILITY UNDER NUCLEAR ATTACK ON  
VEHICLE DOSE ATTENUATION (U), 65 P., (SRD)  
TREE: 411

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17670

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17676  
AUTH: JOHNSON C.F. ; UZZELL B.R.  
CLSS: SRD  
CONN: DA 23 072 ORD 1534  
CORP: GENERAL DYNAMICS (FT. WORTH, TX.)  
DATE: 6203  
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L5 P  
46  
DESC: Cross Sections neutron L1 STEEL LEAD POLYETHYLENE SLABS  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
DESC: EXPERIMENTAL TABULAR  
DESC: Nuclear Weapon Effects land transport armored vehicles L1  
REPN: FZK 138  
SUJO: 1-130-000 ; 3-151-000 ; 3-312-100 ; 9-820-000  
TEMP: A5437  
TITL: SUMMARY OF RADIOLOGICALLY PROTECTED POD CONSTRUCTION AND TEST  
PREPARATION--FINAL REPORT (U), 70 P., (SRD)  
TREE: 412

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17676

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17678  
CLSS: SRD  
CONN: DA 23 072 ORD 1407  
CORP: GENERAL DYNAMICS (FT. WORTH, TX.)  
DATE: 6112  
DESC: Cross Sections neutron L1  
DESC: Cross Sections gamma L1  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
EARTH ACTIVATION  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Effects land transport armored vehicles L1  
REPN: FZK 134 1  
SHOT: OWENS  
TSHO: LOW-ALT  
SUJO: 1-110-000 ; 1-120-000 ; 1-710-000 ; 2-223-200 ; 3-151-000 ;  
9-820-000 ; 9-830-000  
TEMP: A5440  
TITL: RADIATION RESISTANT COMBAT VEHICLE INVESTIGATION-FINAL REPORT; VOL.  
1, NUCLEAR DESIGN STUDIES (U), 274 P., (SRD)  
TREE: 910 ; 920  
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17678  
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copy: 1 id: 50501-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 17682  
AUTH: WELLS M.B.  
CLSS: SRD  
CONN: DA 23 072 ORD 1407  
CORP: GENERAL DYNAMICS (FT. WORTH, TX.)  
DATE: 6112  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
WITHIN SECONDS AFTER DETONATION  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1  
DESC: THEORY EXPERIMENTAL TABULAR  
DESC: Nuclear Weapon Environment Initial Gamma angular distribution L1  
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
REPN: FZK 134 2  
SHOT: PRISCILLA ; HOOD ; WASP ; OWENS  
TSHO: SURFACE ; LOW-ALT

SOCE: [REDACTED]  
SUJO: 1-110-000 ; 1-120-000 ; 1-130-000 ; 1-710-000 ; 1-720-000 ;  
1-730-000 ; 2-223-200

TEMP: A5450  
TITL: RADIATION RESISTANT COMBAT VEHICLE INVESTIGATION-FINAL REPORT; VOL.  
2, TRANSPORT OF INITIAL RADIATION FROM NUCLEAR WEAPONS (U), 158 P.,  
(SRD)

TREE: 910 ; 920

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17682

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copy: 1 id: 50504-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17684

CLSS: C

CORP: GENERAL SERVICES ADMINISTRATION, FEDERAL SUPPLY SERVICE (WASH.,  
D.C.)

DATE: 6105

DESC: Description No Vulnerability Command Control Communications C3 L1

DESC: TABULAR

REPN: FED.STD. 222

SUJO: 3-910-000

TEMP: 59219

TITL: RADIATION STANDARD FOR COMMUNICATIONS AND OTHER  
INFORMATION-PROCESSING EQUIPMENT (U), 185 P., (C)

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17684

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copy: 1 id: 50506-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: 17692

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 6108

DESC: SIMULATION (HE) ; SUMMARY

DESC: Nuclear Weapon Test safety L1

DESC: Environmental Impact Assessments EIS Supporting Data L5

REPN: NRDL FO 31A

SHOT: HYDRA 2A

TSHO: UW

SUJO: 4-856-000 ; 4-870-200

TITL: RADIOLOGICAL SAFETY; ANNEX E (U), CA. 50 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 17752  
AUTH: SULIT R.A. ; COLE R. ; NEWCOMBE C.L.  
CLSS: C  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 5904  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5  
DESC: Nuclear Weapon Environment Airblast static overpressure  
OVERPRESSURE.L5  
DESC: Cross Sections gamma L5  
DESC: Nuclear Weapon Effects ship systems surface ships L1  
DESC: Nuclear Weapon Effects on animals thermal burns heating L5  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L5  
DESC: TABULAR  
EFFT: TREE ; THERMAL ; AIR-BLAST  
REPN: NRDL TR 316  
TSHO: SURFACE ; UW ; LOW-ALT  
SUJO: 1-210-000 ; 2-611-000 ; 3-122-000 ; 3-312-100 ; 3-313-100 ;  
9-830-000  
TEMP: A5357  
TITL: INTERIM PROCEDURES FOR UMPIRING SINGLE-WEAPON NUCLEAR ATTACK ON  
NAVAL SHIPS (U), 97 P., (C)  
TREE: 399

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created: 12/27/1991 type: REPORT permanent  
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INUM: 17753  
AUTH: SHNIDER R.W.  
CLSS: C  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 5901  
DESC: THEORY  
DESC: Nuclear Weapon Phenomenology UGT Debris in tunnels L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: Nuclear Weapon Effects structures underground tunnels L1 ADM  
REPN: NRDL TR 292  
TSHO: UG-CONTAINED  
SUJO: 2-223-200 ; 2-230-000 ; 3-261-000  
TEMP: A5358  
TITL: RADIOLOGICAL EFFECTS OF NUCLEAR TUNNEL DEMOLITIONS (U), 66 P., (C)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 17754  
AUTH: SCHULTZE D.P. ; JENKS A.L. ; DEMUNCK J.S. ; STILWELL E.P.  
CLSS: C  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 5912  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L5  
DESC: Nuclear Weapon Effects ship systems surface ships L5 CREW FALLOUT  
HAZARD  
DESC: TABULAR  
DESC: Nuclear Weapon Environment fallout arrival time L5  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5  
REPN: NRDL TR 387  
TSHO: SURFACE ; UW  
SUJO: 2-225-100 ; 2-225-300 ; 3-122-000 ; 3-312-210  
TEMP: A5361  
TITL: RADIOLOGICAL ASSESSMENT SYSTEM FOR DAMAGE CONTROL CENTRAL OF THE USS  
ENTERPRISE CVA (N) 65 (U), 105 P., (C)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 17755  
ADNO: 518830  
AUTH: SCHELL W.R. ; CAPUTI R.W.  
CLSS: CFRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6001  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1  
DESC: EXPERIMENTAL  
REPN: NRDL TR 395  
SHOT: UMBRELLA ; WAHOO  
TSHO: UW  
SUJO: 2-223-100 ; 2-223-410  
TEMP: A5362  
TITL: DETERMINATION OF C138 INDUCED IN SEAWATER BY UNDERWATER NUCLEAR  
DETONATION (U), 18 P., (CFRD)

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17755  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 17756  
AUTH: LAURINO R.K. ; SCHULTZE D.P. ; VANDENBERGHE G.  
CLSS: CRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6003  
DESC: Nuclear Weapon Environment fallout arrival time L1  
DESC: Nuclear Weapon Effects ship systems surface ships L5 CREW FALLOUT  
HAZARD  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1  
DESC: TABULAR  
REPN: NRDL TR 407  
TSHO: SURFACE  
SUJO: 2-223-420 ; 2-225-100 ; 2-225-300 ; 3-122-000 ; 3-312-210  
TEMP: A5363  
TITL: DECISION PROCEDURES FOR SHIPBOARD RADIOLOGICAL DEFENSE (U), 117 P.,  
(CRD)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 17758  
AUTH: RIEL G.K.  
CLSS: CFRD  
CORP: NAVAL ORDNANCE LAB. (WHITE OAK, MD.)  
DATE: 6207  
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
POOL CONTOURS  
DESC: DUNC ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
REPN: NOLTR 62 151  
SHOT: SWORDFISH  
TSHO: UW  
SUJO: 2-223-410 ; 2-223-420 ; 2-225-100  
TEMP: A5371  
TITL: OPERATION SWORDFISH PROJECT DUNC (U), 50 P., (CFRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent  
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INUM: 17764  
AUTH: MILLER C.F.  
CLSS: SRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6109  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Nuclear Weapon Environment fallout down fraction L1  
DESC: THEORY EXPERIMENTAL  
REPN: NRDL 466  
SHOT: ZUNI ; BRAVO ; TEWA ; FLATHEAD ; NAVAJO ; SUGAR ; UNCLE ; DIABLO ;  
SHASTA  
TSHO: SURFACE ; WATER-SURFACE ; UG-VENTED  
SUJO: 2-223-100 ; 2-225-200  
TEMP: A5390  
TITL: THEORY OF DECONTAMINATION OF FALLOUT FROM NUCLEAR DETONATIONS PART  
II. METHODS FOR ESTIMATING THE COMPOSITION OF CONTAMINATED SYSTEMS  
(U), 84 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 17767  
ADNO: 360453  
AUTH: FERGUSON J.M.  
CLSS: SRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6106  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: TABULAR  
REPN: NRDL TR 600  
SUJO: 1-710-000  
TEMP: A5395  
TITL: EARLY-TIME GAMMA RADIATION FROM NUCLEAR WEAPONS (U), 24 P., (SRD)  
TREE: 910

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17767

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copy: 1 id: 50555-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 17768  
AUTH: LANE W.B.

CLSS: SRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6210  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: EXPERIMENTAL  
REPN: NRDL TR 590  
SHOT: DANNY BOY  
TSHO: SURFACE  
SUJO: 2-223-100  
TEMP: A5394  
TITL: SOME RADIOCHEMICAL AND PHYSICAL PROPERTIES OF NUCLEAR DEBRIS FROM  
DANNY BOY (U), 22 P., (SRD)

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copy: 1 id: 50556-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17770  
ADNO: 525482L  
AUTH: FERGUSON J.M.  
CLSS: SFRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6102  
DESC: TABULAR  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1 N  
ACTIVATION  
REPN: NRDL TR 494  
TSHO: SURFACE  
SUJO: 2-223-200  
TEMP: A5405  
TITL: NEUTRON-INDUCED RADIOACTIVITY IN BEACHES (U), 18 P., (SFRD)

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17770

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copy: 1 id: 50558-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17771  
AUTH: TERESI J.D. ; SULIT R.A. ; LU W.  
CLSS: SRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6112  
DESC: Nuclear weapon safety radiological L1  
DESC: THEORY  
REPN: NRDL TR 538  
SUJO: 4-838-100  
TEMP: A5407

TITL: CLASSIFIED TITLE (U) 62 P., (SRD)

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copy: 1 id: 50559-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17772

AUTH: SPIELBERG D.

CLSS: SRD

CONN: DA 30 069 505 ORD 2460

CORP: NUCLEAR DEVELOPMENT CORPORATION OF AMERICA (WHITE PLAINS, N.Y.)

DATE: 6006

DESC: Cross Sections neutron L1

DESC: Nuclear Weapon Effects land transport armored vehicles L1 CREW

HAZARD

DESC: Cross Sections gamma L1

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

REPN: NDA 2106 9

SUJO: 3-151-000 ; 3-312-100 ; 9-820-000 ; 9-830-000

TEMP: A5408

TITL: STUDY OF STEEL-POLYETHYLENE SHIELDS FOR PROTECTION AGAINST NUCLEAR RADIATIONS (U), 28 P., (SRD)

TREE: 411 ; 412

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17772

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copy: 1 id: 50560-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17777

ABS: Plutonium, being an alpha emitter, is hazardous only if taken into the body. The two main methods of ingress into the body are ingestion and inhalation. Fortunately, the oxides of plutonium formed in a one-point detonation are nearly insoluble in the fluids of the gastrointestinal tract (0.003percent). Once in the stomach they are rapidly excreted as an inert material with virtually no body uptake. Inhalation, on the other hand, presents a considerable threat. Any particle which has reached the lower respiratory tract apparently has an excellent chance of clinging to alveolar surfaces and remaining to do local radiation damage, with a biological half life of about 1 year. Some of the finer particles so captured pass into the blood stream over a period of several days.

ABS: This material remains as a blood burden until its slight solubility allows eventual assimilation to the extent of 70 percent of the material carried. This 70 percent is distributed principally in bone, where it remains indefinitely. One cannot outlive its

influence, because the biological half life of plutonium is about 120 years. The increased handling of nuclear weapons by the armed forces has increased the probability of accidental or premature detonations in populated areas, where the problems associated with the inhalation of plutonium may face an unschooled and unsuspecting public. It is essential that provisions be made to handle any such emergency.

ADNO: 506296  
AUTH: SMITH R.J.  
CLSS: SRD  
CORP: ARMY CHEMICAL WARFARE LAB. (ARMY CHEMICAL CENTER, MD.)  
DATE: 6005  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment alpha activity L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: Nuclear weapon safety radiological L1  
REPN: CWLR 2385  
SHOT: HAMILTON ; QUINCE ; NTS 57  
TSHO: SURFACE ; LOW-ALT  
SUJO: 2-223-600 ; 2-225-100 ; 4-838-100  
TEMP: A5420 ; 71708 (MF)  
TITL: ALPHA Contamination Studies at Operations Plumbbob and Hardtack (U),  
33 P., (SRD)  
TNFF: 8859

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copy: 1 id: 50565-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17851  
ADNO: AD 305768  
AUTH: MOHBACH P.  
CLSS: C  
CORP: FRANKLIN INSTITUTE LABS.  
DATE: 5901  
DESC: Description No Vulnerability PEP Materials L1  
DESC: SUMMARY  
REPN: NAVORD R 6928  
SUJO: 3-950-000  
TEMP: A5298  
TITL: HAZARDS OF ELECTROMAGNETIC RADIATION TO ORDNANCE (U), 22 P., (C)

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copy: 1 id: 50619-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17861  
AUTH: SOULE R.R. ; PERKINS W.W. ; SCHUERT E.A.  
CLSS: C  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6208  
DESC: HYDRA SIMULATION (RADIOACTIVE TRACER) ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
POOL MEASUREMENTS  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Nuclear Weapon Phenomenology plumes spray domes L1  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity L1  
TSHO: UW  
SUJO: 2-223-100 ; 2-224-130 ; 2-225-100 ; 4-821-000  
TEMP: A5314  
TITL: INVESTIGATION OF THE RADIOLOGICAL EFFECTS FROM UNDERWATER NUCLEAR  
EXPLOSIONS USING 10,000-POUND HIGH-EXPLOSIVE CHARGES AS MODELS (U),  
266 P., (C)

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copy: 1 id: 50628-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17873  
AUTH: WHEELER D.  
CLSS: S  
CONN: DA 23 072 ORD 1441  
CORP: GENERAL DYNAMICS (FT. WORTH, TX.)  
DATE: 6203  
DESC: Cross Sections gamma L1  
DESC: Cross Sections neutron L1 STEEL POLYETHYLENE  
DESC: EXPERIMENTAL TABULAR  
REPN: FZK 139  
SUJO: 9-820-000 ; 9-830-000  
TEMP: A5410  
TITL: EXPERIMENTAL SHIELDING STUDIES FOR A RADIATION-RESISTANT COMBAT  
VEHICLE (U), 70 P., (S)

TREE: 411 ; 412

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17873

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copy: 1 id: 50639-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17900  
AUTH: KNAPP H.A.  
CLSS: U

CORP: ATOMIC ENERGY COMMISSION (WASH., D.C.)  
DATE: 6207  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1 10 YEAR  
DECAY ENIWETOK SAND  
DESC: THEORY  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1  
DESC: Radiation Transport gamma L1  
REPN: TID 16457  
SHOT: MIKE  
TSHO: SURFACE  
SUJO: 2-223-200 ; 2-223-420 ; 3-312-210 ; 9-620-000  
TITL: GAMMA RAY EXPOSURE DOSE TO NON-URBAN POPULATIONS FROM THE SURFACE  
DEPOSITION OF NUCLEAR TEST FALLOUT (U), 50 P., (U)

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copy: 1 id: 50662-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17905  
AUTH: FULCHER E.M. ; MCDOWELL E.C. ; SHAW T.R.  
CLSS: U  
CORP: JOHNS HOPKINS UNIVERSITY, OPERATIONS RESEARCH OFFICE (BETHESDA, MD.)  
DATE: 6106  
DESC: Nuclear Weapon Effects land transport armored vehicles L5 CREW  
HAZARD  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
DESC: THEORY  
EFFT: GAMMA  
REPN: ORO TP 36  
SUJO: 3-151-000 ; 3-312-100  
TITL: DIGITAL COMPUTER PROGRAM FOR NUCLEAR RADIATION ASSESSMENT (U), 24  
P., (U)

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17905

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copy: 1 id: 50667-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 17965  
AUTH: KINCH J.W. ; RIGOTTI D.L.  
CLSS: CFRD  
CORP: ARMY CHEMICAL WARFARE LABS. (ARMY CHEMICAL CENTER, MD.)  
DATE: 5907  
DESC: Cross Sections neutron L1 B-10 PU 239 U 235 P 32 OTHERS  
DESC: test instruments nuclear radiation neutron L1



DESC: TABULAR  
REPN: CWLR 2282  
SUJO: 4-342-000 ; 9-820-000  
TEMP: A5232  
TITL: ACTIVATION-TYPE NEUTRON DETECTION SYSTEM AND ITS CALIBRATION (U), 56  
P., (CFRD)

TREE: 652

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17965

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copy: 1 id: 50726-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17980

AUTH: MAHONEY J.J. ; MALONEY J.C. ; KILMINSTER D.T.

CLSS: C

CORP: ARMY CHEMICAL CORPS RESEARCH AND DEVELOPMENT COMMAND (ARMY CHEMICAL  
CENTER, MD.)

DATE: 6005

DESC: Nuclear Weapon Effects structures field fortifications L1 TROOPS IN  
FIELD

DESC: TABULAR

DESC: Nuclear Weapon Effects on animals thermal burns heating L1

REPN: CWLR 2394

SUJO: 3-140-000 ; 3-313-100

TEMP: A5249

TITL: SIGNIFICANCE OF THERMAL RADIATION AS A HAZARD TO TROOPS IN FOXHOLES  
(U), 45 P., (C)

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17980

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copy: 1 id: 50741-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17987

AUTH: BOYD D.M. ; HOWE E.E. ; NEEDELS T.S. ; TOMLINSON W.R.JR. ; WATSON  
B.B. ; WITHERS W.P.

CLSS: SRD

CORP: JOHNS HOPKINS UNIVERSITY, OPERATIONS RESEARCH OFFICE (BETHESDA, MD.)

DATE: 6105

DESC: Nuclear Energy Power Nuclear Materials propulsion L1

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L5

DESC: TABULAR

REPN: ORO T 399

SUJO: 3-312-210 ; 3-512-000

TEMP: A5481

TITL: OPERATIONAL FEASIBILITY OF NUCLEAR-POWERED COMBAT VEHICLES (U), 88

P., (SRD)

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17987

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copy: 1 id: 50748-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17991

ABS: This study undertook to estimate the radiation dose likely to be received by medium and heavy tank crews by utilizing a battle simulation in which nuclear weapons were used to a great extent and in which medium and heavy tanks were employed in typical combat missions. The effect of assuming various mixes of air and ground bursts was examined. The dose due to initial gamma and neutron radiation was taken into account as well as the contribution of fallout and of radiation induced in the soil in the vicinity of the Ground Zero (GZ) of an air burst. The effect of changing the initial gamma radiation transmission factor from 0.3 to 0.1 was also examined. A computer program was designed to facilitate the large number of calculations involved.

AUTH: DOERFER G.L. ; DONALDSON J.L. ; FULCHER E.M. ; MCDOWELL E.C.

CLSS: SRD

CORP: JOHNS HOPKINS UNIVERSITY, OPERATIONS RESEARCH OFFICE (BETHESDA, MD.)

DATE: 5912

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic external L1

DESC: Nuclear Weapon Effects land transport armored vehicles L1 CREW FALLOUT INDIGO I

DESC: Nuclear Warfare Theater operations scenarios battlefield environment L1

DESC: TABULAR

DESC: Nuclear Weapon Environment fallout intensity contours patterns L5

REPN: ORO SP 120

TSHO: LOW-ALT

SUJO: 2-225-100 ; 3-151-000 ; 3-312-210 ; 3-411-200

TEMP: A5485

TITL: EXPECTED RADIATION DOSES FOR TANK CREWS IN NUCLEAR COMBAT (U), 56

P., (SRD)

TNFF: 4860

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17991

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copy: 1 id: 50752-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18197

ABS: The NIKE Hercules/W31 system was tested for EMR susceptibility during July and August of 1961. The missile was tested in a normal

field configuration; while being irradiated with EMR, the missile system was put through a simulated launching procedure as well as the steps to be taken in case of a missile misfire.

AUTH: JULIUS E.R.  
CLSS: SRD  
CORP: SANDIA CORPORATION  
DATE: 6203  
DESC: EXPERIMENTAL  
DESC: Nuclear weapon safety EM pickup EMR RF hazards L1  
REPN: SCDR 3662 ; RS 3423/824  
SOCE: W-31  
SUJO: 4-838-400  
SYST: NIKE HERCULES  
TEMP: A5925  
TITL: ELECTROMAGNETIC RADIATION SUSCEPTIBILITY TEST ON THE NIKE HERCULES  
MISSILE/W31WARHEAD (U), 43 P., (SRD)

TNFF: 8850

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18197

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copy: 1 id: 50958-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18244  
CLSS: SRD  
CORP: SANDIA CORP. (ALBUQUERQUE, NM)  
DATE: 6212  
DESC: Nuclear Test Simulation Field Programs experiment design electrical  
electronic cable noise instrumentation links L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1  
EFFT: TREE  
REPN: SC 4748 (WD) ; RS 3423/1119  
SHOT: SMALL BOY  
TSHO: SURFACE  
SUJO: 3-161-100 ; 4-829-500  
TEMP: A5883  
TITL: NEUTRON AND GAMMA RAY RADIATION VULNERABILITY; OPERATION DOMINIC,  
NTS SANDIA TEST GROUP, PROJECT 45.7 (U), 32 P., (SRD)

TREE: 397

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18244

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copy: 1 id: 51001-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18252  
CLSS: SRD

CORP: SANDIA CORPORATION  
DATE: 6105  
DESC: Environmental Conditions at Nuclear Weapon Test Site site background  
radiation L1  
DESC: TABULAR  
DESC: Nuclear weapon safety operational in-field use reliability broken  
arrows L1  
REPN: SC 4552(WD) ; RS 3423/471  
SOCE: FUFO CLASS ; XW-50-X1 ; XW-59  
SUJO: 4-838-600 ; 4-846-000  
SYST: F-104 ; F-105 ; MINUTEMAN ; SKYBOLT  
TEMP: A5892  
TITL: CLASSIFIED TITLE (U) 45 P., (SRD)

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18252  
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copy: 1 id: 51009-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 18305  
AUTH: PUGH G.E.  
CLSS: U  
CCDE: WSEG-10  
CORP: INSTITUTE FOR DEFENSE ANALYSES, WEAPONS SYSTEMS EVALUATION DIV.  
(WASH., D.C.)

DATE: 6000  
DESC: Nuclear Weapon Environment fallout Deposition L1  
DESC: THEORY TABULAR  
DESC: Nuclear Weapon Effects on animals ionizing radiation L1  
EFFT: GAMMA  
REPN: WSEG RESEARCH MEMO. 10 SUPPL.  
SUJO: 2-225-000 ; 3-312-000  
TITL: REVISION OF FALLOUT PARAMETERS FOR LOW-YIELD DETONATIONS; SUPPLEMENT  
TO WSEG RESEARCH MEMO 10 (U), CA. 50 P., (U)

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18305  
.endblock  
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copy: 1 id: 51061-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 18306  
AUTH: PUGH G.E. ; GALIANO R.J.  
CLSS: U  
CCDE: WSEG-10  
CORP: INSTITUTE FOR DEFENSE ANALYSES, WEAPONS SYSTEMS EVALUATION DIV.  
(WASH., D.C.)

DATE: 5910  
DESC: Nuclear Weapon Environment fallout Deposition L1

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
DESC: Nuclear Weapon Phenomenology cloud Motion L1  
DESC: Nuclear Weapon Environment Fallout Radioproperties L1  
DESC: THEORY TABULAR  
EFFT: GAMMA  
REPN: WSED RESEARCH MEMO. 10  
SUJO: 2-223-000 ; 2-224-000 ; 2-225-000 ; 3-312-100  
TITL: ANALYTIC MODEL OF CLOSE-IN DEPOSITION OF FALLOUT FOR USE IN  
OPERATIONAL-TYPE STUDIES (U), 160 P., (U)

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copy: 1 id: 51062-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18448  
AUTH: GILBERT F.C. ; FREDEN S.C.  
CLSS: SRD  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)  
DATE: 5903  
DESC: Nuclear Test Simulation Field Programs experiment design neutron  
experiments L1  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1  
REPN: UCRL 5510  
SHOT: HICKORY ; MAPLE  
TSHO: WATER-SURFACE  
SOCE:   
SUJO: 1-120-000 ; 4-820-300  
TEMP: A6216  
TITL: EXTERNAL NEUTRON MEASUREMENTS, OPERATION HARDTACK-PHASE I (U), 39  
P., (SRD)

TREE: 920

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18448

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copy: 1 id: 51232-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18449  
AUTH: NANCE O. ; SMITH H.A.  
CLSS: SRD  
CCDE: SHARK (X-RAY LOADING) LLL  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)  
DATE: 5907  
DESC: Nuclear Weapon Effects materials not systems associated L1

DESC: THEORY CODE  
EFFT: X-RAY  
REPN: UCRL 5616 T  
SUJO: 3-240-000  
TEMP: A6217  
TITL: X-RAY EFFECTS CODE (U), 52 P., (SRD)

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copy: 1 id: 51233-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18450  
AUTH: SMITH H.A. ; NANCE O.  
CLSS: SRD  
CCDE: SHARK (X-RAY LOADING) LLL  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)  
DATE: 6005  
DESC: THEORY EXPERIMENTAL TABULAR  
DESC: Nuclear Weapon Effects materials metals alloys L1 PB AL C MICARTA FE  
DESC: equation of state heat of vaporization thermal conductivity opacity

L1 EOS

EFFT: X-RAY  
REPN: UCRL 5660  
SHOT: LOGAN  
TSHO: UG-CONTAINED  
SUJO: 3-243-000 ; 9-710-000  
TEMP: A6218  
TITL: X-RAY EFFECTS (U), 77 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18451  
AUTH: BONNER N.A.  
CLSS: SRD  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)  
DATE: 6006  
DESC: Nuclear Test Simulation Field Programs experiment design neutron  
experiments L1  
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1

REPN: UCRL 5995  
TSHO: WATER-SURFACE  
SOCE: WHISTLE ; CHERUB ; FLUTE  
SUJO: 1-110-000 ; 1-130-000 ; 4-820-300  
TEMP: A6219  
TITL: CLASSIFIED TITLE (U) 31 P., (SRD)  
TREE: 920

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18451

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copy: 1 id: 51235-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18452  
AUTH: VERGAMINI P.L.  
CLSS: U  
CONN: AF 33 (616) 7017  
CORP: UNIVERSITY OF DAYTON RESEARCH INSTITUTE  
DATE: 6105  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Radiation Transport thermal L1  
DESC: THEORY  
REPN: ASD TR 61 60  
SHOT: LACROSSE ; CHEROKEE ; ZUNI ; ERIE ; FLATHEAD ; KICKAPOO ; INCA ;  
DAKOTA ; MOHAWK ; APACHE ; NAVAJO ; TEWA ; HURON  
TSHO: SURFACE ; LOW-ALT  
SUJO: 1-210-000 ; 9-610-000  
TITL: SIMPLIFIED METHOD FOR PREDICTING THERMAL RADIATION IN THE VICINITY  
OF NUCLEAR DETONATIONS (U), 34 P., (U)

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18452

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copy: 1 id: 51236-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18452-SUP  
AUTH: VERGAMINI P.L.  
CLSS: SFRD  
CONN: AF 33 (616) 7017  
CORP: UNIVERSITY OF DAYTON RESEARCH INSTITUTE  
DATE: 6105  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: EXPERIMENTAL SUMMARY  
REPN: ASD TR 61 60 SUPL.1  
SHOT: ZUNI ; FLATHEAD ; DAKOTA ; APACHE ; NAVAJO ; TEWA ; HURON  
SUJO: 1-210-000

TEMP: A6220  
TITL: SIMPLIFIED METHOD FOR PREDICTING THERMAL RADIATION IN THE VICINITY  
OF NUCLEAR DETONATIONS SUPPLEMENT 1--SELECTED REDWING THERMAL ENERGY  
DATA (U), 4 P., (SFRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18455  
CLSS: SRD  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)  
DATE: 6206  
DESC: Nuclear weapon test placement including cab construction for actual  
detonation L1

DESC: Nuclear weapon security control L1

DESC: Nuclear weapon safety operational in-field use reliability broken  
arrows L1

DESC: TABULAR

REPN: UCRL 6971

SOCE: [REDACTED]

SUJO: 4-832-700 ; 4-833-000 ; 4-838-600

SYST: POLARIS ; MK 2RV ; MK 1RV

TEMP: A6223

TITL: REPORT OF POLARIS ARMING CONTROL SUBCOMMITTEE (U), 205 P., (SRD)

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18455

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copy: 1 id: 51240-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18456  
AUTH: BEANE F.O. ; CHAPMAN W.H.  
CLSS: SRD  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)  
DATE: 6209  
DESC: Nuclear weapon test device physical operation construction geometry  
materials components L1

REPN: UCRL 7026

SHOT: HUDSON

TSHO: UG-CONTAINED

SOCE: [REDACTED]

SUJO: 4-836-000

TEMP: A6224

TITL: CLASSIFIED TITLE (U) 16 P., (SRD)



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copy: 1 id: 51241-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18487

AUTH: TOMNOVEC F.

CLSS: SRD

CORP: NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO, CA.)

DATE: 6001

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

DESC: EXPERIMENTAL

REPN: NRDL TR 393

SHOT: OWENS

TSHO: LOW-ALT

SUJO: 2-223-100

TEMP: A5551

TITL: CONTRIBUTION OF SI28 (N,P) A1 28 REACTION TO INDUCED A1 27 (N,Y)  
A128 RADIATION FIELDS FROM ATOMIC WEAPONS (U), 12 P., (SRD)

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copy: 1 id: 51272-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18552

AUTH: CALME E.E. ; PATTERSON W.J.

CLSS: U

CONN: DA 36 039 SC 90735

CORP: GENERAL ELECTRIC CO., RECEIVING TUBE DEPT. (OWENSBORO, KY.)

DATE: 6200

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1 ELECTRON TUBES + TUBE PARTS

SUJO: 4-170-000

TITL: BASIC RADIATION EFFECTS MECHANISM STUDY ON ELECTRON TUBES; REPORT  
NO. 2 (U), 75 P., (U)

TREE: 305 ; 200

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18552

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copy: 1 id: 51333-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18581  
AUTH: LOEWE W.E. ; JERRI A.J. ; LYDAY R.O.JR. ; MCELROY W.N. ; SPERBER D.  
CLSS: SRD  
CORP: ARMY NUCLEAR DEFENSE LAB. (ARMY CHEMICAL CENTER, MD.)  
DATE: 6202  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1 DOSE  
DESC: test instruments nuclear radiation neutron L1  
REPN: NDL TR 27  
SHOT: KICKAPOO  
TSHO: SURFACE ; WATER-SURFACE ; LOW-ALT  
SUJO: 1-110-000 ; 4-342-000  
TEMP: A5506  
TITL: NEUTRON DATA EVALUATION (U), 180 P., (SRD)  
TREE: 920 ; 652

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18581

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copy: 1 id: 51356-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18716  
ABS: The results of experimental susceptibility tests performed on the  
MC-627/MC-628 pulse fuzes are reported. The fuzes and testing  
procedures are briefly described. Jamming signals included CW, swept  
CW, amplitude-modulated CW, noise, and various pulse signals.  
AUTH: AMENDE J.W.  
CLSS: S  
CONN: DA 36 039 SC 78281  
CORP: SYLVANIA ELECTRIC PRODUCTS INC. (MOUNTAIN VIEW, CA.)  
DATE: 6006  
DESC: Nuclear weapon safety EM pickup EMR RF hazards L1  
DESC: EXPERIMENTAL  
REPN: EDL M256  
SOCE: MK 28 BOMB  
SUJO: 4-838-400  
TEMP: A6536  
TITL: EXPERIMENTAL STUDY OF THE SUSCEPTIBILITY OF MC-627/MC-628 FUZES TO  
ELECTROMAGNETIC RADIATION (U) 64 P., (S)  
TNFF: 8850

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18716

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copy: 1 id: 51496-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18729

ADNO: 271339  
AUTH: LUBATTI H.J. ; WICKLEIN H.W.  
CLSS: U  
CONN: AF 04 (647) 289  
CORP: BOEING AIRPLANE CO. (SEATTLE, WASH.)  
DATE: 6000  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 TA + AL CAPACITORS  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLES  
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1  
AMPLIFIER  
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects missile systems strategic electronics L1  
MINUTEMAN SQUIB DRIVER CIRCUIT AMPLIFIER CIRCUIT  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 SCR-S  
EFFT: TREE  
REPN: T2 2128  
SUJO: 3-112-130 ; 3-213-000 ; 3-221-000 ; 3-229-000 ; 3-231-000  
TITL: OCTOBER, 1960, GODIVA III MINUTEMAN RADIATION EFFECTS TESTS (U), 105  
P., (U)  
TREE: 392

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18729

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copy: 1 id: 51509-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18730  
CLSS: U  
CCDE: ZZ (RADIATION EFFECTS DATA REDUCTION)  
CORP: BOEING AIRPLANE CO. (SEATTLE, WASH.)  
DATE: 6200  
DESC: Simulation Facilities Techniques TREE L1 FLASH X-RAY  
DESC: test instruments electronic vulnerability TREE L1 TRAILER CURRENT  
PROBE PREAMP  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
TRANSMISSION LINES  
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability  
L1  
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1  
TIMM-S (580 DEGREES C VACUUM)  
EFFT: TREE  
REPN: D2 9878 5  
SUJO: 3-222-000 ; 3-231-000 ; 4-170-000 ; 4-272-000 ; 4-372-000  
TITL: TRANSIENT RADIATION EFFECTS INSTRUMENTATION TECHNIQUES (U), 171 P.,  
(U)  
TREE: 642

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18730

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copy: 1 id: 51510-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18731  
AUTH: FIRTH W.G.  
CLSS: U  
CONN: AF 04 (647) 289  
CORP: BOEING AIRPLANE CO. (SEATTLE, WASH.)  
DATE: 5900  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 DIODES TRANSISTORS  
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1  
FLIP-FLOP  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS  
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects missile systems strategic electronics L1  
MINUTEMAN FLIP-FLOP  
EFFT: TREE  
REPN: D7 2641  
SUJO: 3-112-130 ; 3-211-000 ; 3-221-000 ; 3-229-000  
TITL: EFFECTS OF A NUCLEAR RADIATION BURST ON THE MINUTEMAN GUIDANCE AND  
CONTROL TRANSISTOR FLIP-FLOP (U), 25 P., (U)  
TREE: 342

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18731

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copy: 1 id: 51511-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18765  
AUTH: GERSTEIN B. ; SCHLUETER A. ; FUEYO A. ; TYLKA J.  
CLSS: U  
CONN: DA 36 039 SC 85322  
CORP: ADMIRAL CORP. (CHICAGO, IL.)  
DATE: 6211  
DESC: SIMULATION (LINAC CYCLOTRON PULSED REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio  
microwave systems L1 QUARTZ CRYSTAL UNITS CR18U CR19U CR52U CR54U  
CR47U CR(XM17)U CR18U  
EFFT: TREE  
SUJO: 3-132-220  
TITL: EFFECTS OF NUCLEAR RADIATION ON QUARTZ CRYSTAL UNITS; REPORT NO. 5  
(U), CA. 300 P., (U)  
TREE: 367

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18765

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copy: 1 id: 51541-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18769  
CLSS: U  
CCDE: ZZ (CIRCUIT ANALYSIS)  
CONN: AF 29 (601) 5399  
CORP: IBM CORP. (OWEGO, N.Y.)  
DATE: 6212  
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability  
L1 COMPUTERS FOR TITAN II + STINGS  
REPN: IBM 62 521 27  
SUJO: 4-170-000  
TITL: PULSE RADIATION EFFECTS ON AEROSPACE DIGITAL COMPUTER (U), 20 P.,  
(U)  
TREE: 341

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18769

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copy: 1 id: 51545-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 18837  
ABS: Tests were conducted at the naval weapons laboratory during January  
1961, to determine the susceptibility of the MK 101/S2F  
weapon/aircraft system to electromagnetic radiation from radio and  
radar transmitters.  
AUTH: CARTER A.G.JR.  
CLSS: SRD  
CORP: SANDIA CORPORATION  
DATE: 6203  
DESC: Nuclear weapon safety EM pickup EMR RF hazards L1  
DESC: EXPERIMENTAL  
REPN: SCDR 267 61 ; RS 3423/598  
SOCE: MK 101 BOMB  
SUJO: 4-838-400  
SYST: S-2F AIRCRAFT  
TEMP: A6451  
TITL: VULNERABILITY TESTS OF THE MK 101 WITH THE S2F AIRCRAFT (U) 121 P.,  
(SRD)  
TNFF: 8850

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18837

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copy: 1 id: 51613-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 18908  
AUTH: KRIEGER H.A. ; CARLSON C.R.  
CLSS: SRD  
CORP: SANDIA CORPORATION (ALBUQUERQUE, N.M.)  
DATE: 6006  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L5  
DESC: TABULAR  
DESC: Nuclear Warfare Strategic targeting fuzing salvage fuzing optimum  
burst L1  
DESC: Nuclear Weapon Effects flight systems airplanes structures L5  
EFFT: NEUTRON ; AIR-BLAST  
REPN: SCDR 166 60 ; RS 3423/177  
SUJO: 3-111-100 ; 3-161-100 ; 3-312-100 ; 3-425-100  
SYST: B-52A AIRCRAFT  
TEMP: A6354  
TITL: NUCLEAR BURSTS FROM KILLED DELIVERY SYSTEMS (DEAD MAN SALVAGE) (U),  
84 P., (SRD)

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18908

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copy: 1 id: 51683-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 18953  
AUTH: DUFF R.E. ; WATTENBURG W.H.  
CLSS: SRD  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)  
DATE: 6212  
DESC: test instruments test hardware shock wave display L5 CABLE  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time  
spectrum duration L1  
EFFT: TREE  
REPN: UCRL 7164  
SHOT: ANACOSTIA  
TSHO: UG-CONTAINED  
SUJO: 2-622-000 ; 3-231-000 ; 4-313-000  
TEMP: A6553  
TITL: PERFORMANCE OF COAXIAL CABLE IN THE VICINITY OF A NUCLEAR EXPLOSION  
20 P., (SRD)

TREE: 390

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18953

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copy: 1 id: 51728-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 19072  
AUTH: BANKOFIER A. ; NEWCOMBE C.L. ; TERESI J.D. ; MACKIN J.L.  
CLSS: SRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO, CA.)  
DATE: 6212  
DESC: TABULAR  
DESC: Nuclear Energy Power Nuclear Materials Facilities security safety  
handling transport safeguards L1  
REPN: NRDL TR 545 SUPPL  
SUJO: 3-520-000  
TEMP: A6964  
TITL: RADIATION HAZARDS ASSOCIATED WITH OPERATION OF SNAP, ROVER, AND  
PLUTO NUCLEAR-POWERED SPACE UNITS (U) 134 P., (SRD)

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19072

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copy: 1 id: 51846-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 19073

ABS: This bibliography presents abstracts of all research reports  
published prior to October 1961 by the U.S. Army Chemical Corps  
Nuclear Defense Laboratory and its predecessors, reports prepared by  
NDL personnel and published by other agencies, and reports resulting  
from research conducted under contract to this laboratory. It  
supersedes CRLR 413, bibliography, with abstracts, of reports of  
radiological division, chemical and radiological laboratories (u),  
and CWL SP 3-5, bibliography with abstracts of radiological division  
reports from may 1954 to may 1958. Included in this report are  
abstracts of Technical Command Reports (TCR) prior to 1951; Chemical  
and Radiological Laboratories Reports (CRLR) from 1951 to 1956;  
Chemical Warfare Laboratories Reports (CWLR) from 1956 to September  
1960; U.S. Army Chemical Corps Nuclear Defense Laboratory reports  
(NDL) from September 1960 to October 1961;

ABS: Technical Memoranda (TM) from November 1957 to October 1961, interim  
test reports (ITR) and weapons test reports (WT) to October 1961. A  
subject index and an author index are also included.

AUTH: CONWAY B.J.

CLSS: SRD

CORP: ARMY NUCLEAR DEFENSE LABORATORY (ARMY CHEMICAL CENTER, MD.)

DATE: 6201

DESC: Nuclear Warfare Postattack Recovery bibliographies L1

DESC: Nuclear Weapon Effects on animals ionizing radiation L1

DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1

DESC: Nuclear Weapon Environment Prompt Neutrons L1

DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: BIBLIOGRAPHY  
DESC: Cross Sections gamma L1  
DESC: Cross Sections neutron L1  
DESC: Nuclear Warfare Postattack Recovery decontamination L1  
REPN: NDL TR 25  
SUJO: 1-100-000 ; 1-210-000 ; 1-710-000 ; 3-312-000 ; 3-440-100 ;  
3-448-900 ; 9-820-000 ; 9-830-000  
TEMP: A6965  
TITL: BIBLIOGRAPHY, WITH ABSTRACTS, OF REPORTS OF NUCLEAR DEFENSE  
LABORATORY AND ITS PREDECESSORS (U) 156 P., (SRD)

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19073

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copy: 1 id: 51847-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19108  
AUTH: VORESS H.E.  
CLSS: SRD  
CORP: ATOMIC ENERGY COMMISSION  
DATE: 6105  
DESC: BIBLIOGRAPHY SUMMARY  
DESC: Nuclear Warfare Strategic radiological warfare L1  
REPN: TID 3632  
SUJO: 3-422-800  
TEMP: A6672  
TITL: RADIOLOGICAL WARFARE (U) 27 P., (SRD)

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19108

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copy: 1 id: 51882-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19122  
CLSS: SRD  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)  
DATE: 6206  
DESC: Nuclear Weapon Test safety L1  
DESC: TABULAR  
DESC: Nuclear Test Simulation Field Programs experiment design electrical  
electronic cable noise instrumentation links L1 NUCLEAR WARHEAD  
REPN: CN TGD 103, REV 1  
SHOT: SMALL BOY  
TSHO: SURFACE  
SUJO: 4-829-500 ; 4-856-000  
TEMP: A6712



TITL: SMALL BOY LRL SECTOR RECOVERY PROCEDURE (U) 53 P., (SRD)

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19122

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copy: 1 id: 51896-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19124

AUTH: WESTLUND E.F. ; STEELE W.J.

CLSS: SRD

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6003

DESC: Nuclear Weapon Effects materials metals alloys L1

DESC: TEST DATA L1 ; EXPERIMENTAL

EFFT: X-RAY

REPN: COC 1567

SHOT: LOGAN

TSHO: UG-CONTAINED

SUJO: 3-243-000

TEMP: A6714

TITL: METALLOGRAPHIC EXAMINATION OF METAL SAMPLES FROM LOGAN SHOT (U) 16

P., (SRD)

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19124

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copy: 1 id: 51898-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19191

AUTH: BROWER R.W.

CLSS: SRD

CORP: EG+G

DATE: 6109

DESC: TABULAR

DESC: Nuclear Test Simulation Field Programs experiment design x-ray  
experiments L1

DESC: test instruments visible L1

DESC: Nuclear Test Simulation Field Programs experiment design optical  
radiation experiments UV visible IR L1

REPN: EGG L 537

SHOT: MARSHMALLOW

TSHO: UG-CONTAINED

SUJO: 4-382-000 ; 4-820-500 ; 4-820-600

TEMP: A6903

TITL: DASA PROJECT 841-OPTICAL LINKS--OPTICAL DATA GATHERING SYSTEMS OF  
PROGRAM 800 (U) 78 P., (SRD)

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19191

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copy: 1 id: 51973-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19208

ABS: Because many weapon systems involve wide spread dispersal and a short reaction time, they present a serious safety and control problem. To be acceptable in terms of the risk of unauthorized nuclear expenditure in the time frame of its availability, advanced technology not here-to-fore applied must be considered. It seems clear that the prevention of unauthorized intentional acts (the control problem) rather than the prevention of unauthorized unintentional acts (the safety problem) are most likely to be of primary concern. It is with the problem of control that this report concerns itself.

AUTH: FRIED M.

CLSS: SRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6212

DESC: TABULAR

DESC: Nuclear weapon security control L1

REPN: UCID 4545

SUJO: 4-832-700

TEMP: A6986

TITL: INTEGRATED WEAPON AND INTEGRITY SENSING SYSTEM PRELIMINARY STUDY  
REPORT (U) 23P., (SRD)

TNFF: 7496

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copy: 1 id: 51990-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19209

AUTH: CANFIELD R.V. ; GUSTAVSON M.R. ; SALISBURY J.D. ; DARBY G.C.

CLSS: SFRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6212

DESC: THEORY

DESC: Nuclear weapon security control L1

REPN: UCID 4542

SUJO: 4-832-700

TEMP: A6987

TITL: SYSTEM FOR NUCLEAR WEAPONS CONTROL (U), 34 P., (SFRD)

TNFF: 7496

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copy: 1 id: 51991-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 19210  
AUTH: O'CONNELL L.G.  
CLSS: SFRD  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)  
DATE: 6211  
DESC: Nuclear weapon security control L1  
DESC: TABULAR  
REPN: UCID 4538  
SUJO: 4-832-700  
TEMP: A6988  
TTTL: WIRE MEMBRANES FOR INTEGRITY SENSING SYSTEMS (U) 53 P., (SFRD)  
TNFF: 7496

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19210  
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copy: 1 id: 51992-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 19211  
AUTH: GRASBERGER W.H.  
CLSS: SRD  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)  
DATE: 6210  
DESC: THEORY  
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1  
REPN: UCID 4533  
SHOT: MARSHMALLOW  
TSHO: UG-CONTAINED  
SOCE: XXXXXXXXXX  
SUJO: 1-620-000  
TEMP: A6989  
TTTL: CLASSIFIED TITLE (U) 14 P., (SRD)  
TREE: 930

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19211  
.endblock

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copy: 1 id: 51993-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 19212  
AUTH: WAINWRIGHT T.E.  
CLSS: SRD  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)  
DATE: 6006  
DESC: THEORY SUMMARY  
DESC: Nuclear weapon basic design L1  
REPN: UCID 4152  
SUJO: 4-831-000  
TEMP: A6990  
TITL: SCHEME FOR CONCENTRATING RADIANT ENERGY FROM A BOMB (U) 7 P., (SRD)

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copy: 1 id: 51994-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19213  
AUTH: SHEARER J.N.  
CLSS: S  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)  
DATE: 5904  
DESC: Nuclear Weapon Test safety L1  
DESC: TEST DATA L1 MATERIALS ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects materials metals alloys L1  
EFFT: X-RAY  
REPN: UCID 4502  
SHOT: LOGAN  
TSHO: UG-CONTAINED  
SUJO: 3-243-000 ; 4-856-000  
TEMP: A6991  
TITL: RECOVERY OPERATION FOR THE LOGAN SHOT (U) 39 P., (S)

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copy: 1 id: 51995-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19224  
AUTH: STERN H.A. ; FREE J.J. ; LILLER P.R. ; TURNBULL J.C.  
CLSS: U  
CONN: DA 36 039 SC 89121  
CORP: RCA, ELECTRON TUBE DIVISION (LANCASTER, PA.)  
DATE: 6200  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 ELECTRON TUBE MATERIALS  
ELECTRON TUBES POWER TETRODE TRIODE NUVISTOR  
DESC: Nuclear Weapon Effects materials carbon L1

DESC: Nuclear Weapon Effects materials ceramics optical L1  
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL  
EFFT: TREE  
SUJO: 3-229-000 ; 3-241-000 ; 3-248-000  
TITL: RADIATION-INDUCED GAS EFFECTS ON ELECTRON TUBE MATERIALS; THIRD  
QUARTERLY PROGRESS REPORT (U), 50 P., (U)

TREE: 305

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19224

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copy: 1 id: 52015-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19501

AUTH: SULIT R.A.

CLSS: C

CORP: NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO, CA.)

DATE: 6006

DESC: Nuclear Weapon Effects ship systems surface ships L1 CREW

DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L5

DESC: Nuclear Weapon Effects on animals thermal burns heating L1

DESC: Nuclear Weapon Environment Thermal Output rate L5

DESC: TABULAR

EFFT: THERMAL

REPN: NRDL TR 427

SUJO: 1-210-000 ; 1-240-000 ; 3-122-000 ; 3-313-100

TEMP: A7371

TITL: PREDICTION OF SHIPBOARD THERMAL COMBAT INEFFECTIVES (U), 83 P., (C)

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19501

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copy: 1 id: 52261-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19540

ABS: Instrumented and go-no-go tests were conducted by the U.S. Naval  
Weapons Laboratory aboard the USS GYATT (DDG-1) to determine the  
susceptibility of the BW-1 Terrier missile to electromagnetic  
radiation from radio and radar transmitters installed on board.

AUTH: GILBERTSON W.L.

CLSS: C

CORP: NAVAL WEAPONS LABORATORY (DAHLGREN, VA.)

DATE: 5910

DESC: EXPERIMENTAL

DESC: Nuclear weapon safety EM pickup EMR RF hazards L1

REPN: NWL R 1677

SUJO: 4-838-400

SYST: TERRIER  
TEMP: A7343  
TITL: INVESTIGATION OF ELECTROMAGNETIC HAZARDS TO THE BW-1 TERRIER MISSILE  
ABOARD THE USS GYATT (DDG-1) (U), CA. 20 P., (C)

TNFF: 8850 ; 8883

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19540

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copy: 1 id: 52298-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19541

ABS: Instrumented and go-no-go tests were conducted on board the USS  
HELENA (CA-75) to determine the susceptibility of the REGULUS I  
rocket booster igniter (MK 174), to activation as a result of  
exposure to the electromagnetic environment existing aboard.

AUTH: SHORT J.S. ; HINKLE C.J.

CLSS: C

CORP: NAVAL WEAPONS LABORATORY (DAHLGREN, VA.)

DATE: 5909

DESC: EXPERIMENTAL

DESC: Nuclear weapon safety EM pickup EMR RF hazards L1

REPN: NWL R 1676

SUJO: 4-838-400

SYST: REGULUS

TEMP: A7344

TITL: INVESTIGATION OF ELECTROMAGNETIC RADIATION HAZARDS TO REGULUS I  
MISSILE BOOSTER IGNITER ABOARD THE USS HELENA (CA-75) (U), CA. 20  
P., (C)

TNFF: 8850 ; 8883

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19541

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copy: 1 id: 52299-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19573

ABS: The external radiation emitted from MK-50, -54, and -59 weapons was  
measured. The gamma and neutron components were measured with film  
badges and an assortment of standard radiation survey instruments.  
The total dose rate from each device was measured for the skin and  
the whole body at various distances.

AUTH: HANKINS D.E. ; DUMMER J.E.

CLSS: SRD

CONN: W 7405 ENG 36

CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS, NM.)

DATE: 6208

DESC: monitoring identification of unexploded devices stockpile radiant

emissions intrinsic radiations L1

DESC: Nuclear weapon safety radiological L1  
REPN: LA 2699  
SOCE: MK 54 ; MK 50 ; MK 59  
SUJO: 4-838-100 ; 4-839-000  
TEMP: A7218  
TITL: RADIATION SURVEY OF TYPES 74 AND 81 NUCLEAR PITS AND MK-50, -54, AND  
-59 NUCLEAR WARHEADS (U) 18 P., (SRD)  
TNFF: 7450 ; 8860

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19573

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copy: 1 id: 52331-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19639-222  
AUTH: WAXLER D.  
CLSS: SRD  
CORP: PICATINNY ARSENAL (DOVER, N.J.)  
DATE: 6210  
DESC: EXPERIMENTAL  
DESC: Nuclear weapon safety EM pickup EMR RF hazards L5  
SUJO: 4-838-400  
SYMJ: ARMY FOURTH NUCLEAR WEAPONS SYMPOSIUM  
SYST: LACROSSE ; NIKE HERCULES  
TITL: VULNERABILITY OF NUCLEAR WEAPONS TO ELECTROMAGNETIC RADIATION (U), 8  
P., (SRD)  
TNFF: 8850

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19639-222

.endblock

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copy: 1 id: 52412-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19639-299  
AUTH: SQUIRES R.  
CLSS: SRD  
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)  
DATE: 6210  
DESC: SUMMARY  
DESC: Nuclear weapon program management documents L5  
SUJO: 4-830-500  
SYMJ: ARMY FOURTH NUCLEAR WEAPONS SYMPOSIUM  
TITL: WARHEAD DESIGN PROGRESS (U), 7 P., (SRD)

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19639-299

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copy: 1 id: 52417-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 19649  
AUTH: CHRISTOFILOS N.C.  
CLSS: U  
CONN: W 7405 ENG 48 (AEC)  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)  
DATE: 5906  
DESC: THEORY SURVEY  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
DESC: Nuclear Test Simulation Field Programs experiment design  
high-altitude debris  
TSHO: HI-ALT  
SUJO: 2-217-000 ; 4-822-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 64, NUMBER 8 (U), P 869,  
AUGUST, 1959  
TITL: ARGUS EXPERIMENT (U), 7 P (U)

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19649

.endblock

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copy: 1 id: 52432-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 19650  
AUTH: VAN ALLEN J.A. ; MCILWAIN C.E. ; LUDWIG G.H.  
CLSS: U  
CONN: DA 11 022 ORD 2788  
CORP: STATE UNIVERSITY OF IOWA (IOWA CITY-IOWA)  
DATE: 5904  
DESC: SATELLITE (EXPLORER 4) ; EXPERIMENTAL  
DESC: test instruments nuclear radiation proton alpha heavy particle  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum  
DESC: Nuclear Test Simulation Field Programs experiment design  
high-altitude debris  
DESC: test instruments nuclear radiation beta electron beams  
SHOT: ARGUS-1 ; ARGUS-2 ; ARGUS-3  
TSHO: HI-ALT  
SUJO: 2-212-000 ; 2-217-000 ; 4-343-000 ; 4-344-000 ; 4-822-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 64, NUMBER 3 (U), P 877,  
AUGUST, 1959  
TITL: SATELLITE OBSERVATIONS OF ELECTRONS ARTIFICIALLY INJECTED INTO THE  
GEOMAGNETICFIELD (U), 15 P (U)

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19650

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copy: 1 id: 52433-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 19670  
AUTH: CLADIS J.B. ; WALT M.  
CLSS: U  
CONN: AF 29 (601) 1764 (AFSWC) ; AF 29 (601) 2862 (AFSWC)  
CORP: LOCKHEED MISSILES AND SPACE COMPANY (PALO ALTO-CALIFORNIA)  
DATE: 6209  
DESC: EXPERIMENTAL THEORY  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
DESC: test instruments nuclear radiation beta electron beams  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum  
SHOT: ARGUS-2  
TSHO: HI-ALT  
SUJO: 2-212-000 ; 2-213-000 ; 2-217-000 ; 4-344-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 67, NUMBER 13 (U), P  
5035, DECEMBER 1962  
TITL: BEHAVIOR OF GEOMAGNETICALLY TRAPPED ELECTRONS INJECTED BY  
HIGH-ALTITUDE NUCLEAR DETONATIONS (U), 20 P (U)

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19670  
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copy: 1 id: 52453-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 19675  
AUTH: BROWN W.L. ; GABBE J.D.  
CLSS: U  
CORP: BELL TELEPHONE LABORATORIES (MURRAY HILL-NEW JERSEY)  
DATE: 6211  
DESC: test instruments nuclear radiation beta electron beams  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
DESC: SATELLITE (TELSTAR) ; EXPERIMENTAL  
SHOT: STARFISH  
TSHO: HI-ALT  
SUJO: 2-217-000 ; 4-344-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 607,  
FEBRUARY 1, 1963  
TITL: ELECTRON DISTRIBUTION IN THE EARTH'S RADIATION BELTS DURING JULY  
1962 AS MEASURED BY TELSTAR (U), 12 P (U)

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19675  
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copy: 1 id: 52458-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 19676  
AUTH: VAN ALLEN J.A. ; FRANK L.A. ; O BRIEN B.J.  
CLSS: U  
CORP: STATE UNIVERSITY OF IOWA (IOWA CITY-IOWA)  
DATE: 6211  
DESC: SATELLITE (INJUN 1) SATELLITE (EXPLORER 14) SATELLITE (TELSTAR) ;  
EXPERIMENTAL  
DESC: test instruments nuclear radiation proton alpha heavy particle  
DESC: test instruments nuclear radiation beta electron beams  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
SHOT: STARFISH  
TSHO: HI-ALT  
SUJO: 2-217-000 ; 4-343-000 ; 4-344-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 619,  
FEBRUARY 1, 1963  
TITL: SATELLITE OBSERVATIONS OF THE ARTIFICIAL RADIATION BELT OF JULY 1962  
(U), 9 P (U)

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19676

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copy: 1 id: 52459-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 19677  
AUTH: SMITH R.V. ; IMHOF W.L.  
CLSS: U  
CORP: LOCKHEED MISSILES AND SPACE COMPANY (PALO ALTO-CALIFORNIA)  
DATE: 6211  
DESC: SATELLITE (1962 ALPHA UPSILON) ; EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
DESC: test instruments nuclear radiation beta electron beams  
SHOT: STARFISH  
TSHO: HI-ALT  
SUJO: 2-217-000 ; 4-344-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 629,  
FEBRUARY 1963  
TITL: SATELLITE MEASUREMENTS OF THE ARTIFICIAL RADIATION BELT (U), 5 P (U)

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19677

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copy: 1 id: 52460-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 19678

AUTH: PIEPER G.F. ; WILLIAMS D.J. ; FRANK L.A.  
CLSS: U  
CONN: NOW 62 0604 C (BNW) ; N 9 ONR 93803 (ONR)  
CORP: APPLIED PHYSICS LABORATORY (SILVER SPRING-MARYLAND) , STATE  
UNIVERSITY OF IOWA(IOWA CITY-IOWA)  
DATE: 6211  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
DESC: SATELLITE (TRAAC) ; EXPERIMENTAL  
SHOT: STARFISH  
TSHO: HI-ALT  
SUJO: 2-217-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 635,  
FEBRUARY 1, 1963  
TTTL: TRAAC OBSERVATIONS OF THE ARTIFICIAL RADIATION BELT FROM THE JULY 9,  
1962, NUCLEAR DETONATION (U), 6 P (U)

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19678  
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copy: 1 id: 52461-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 19679  
AUTH: MOZER F.S. ; ELLIOTT D.D. ; MIHALOV J.D. ; PAULIKAS G.A. ; VAMPOLA  
A.L. ; FREIDEN S.C.  
CLSS: U  
CONN: AF 04 (695) 169  
CORP: AEROSPACE CORPORATION (EL SEGUNDO-CALIFORNIA)  
DATE: 6211  
DESC: test instruments nuclear radiation proton alpha heavy particle  
DESC: test instruments nuclear radiation beta electron beams  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum  
DESC: SATELLITE (1962 ALPHA UPSILON) ; EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
SHOT: STARFISH  
TSHO: HI-ALT  
SUJO: 2-213-000 ; 2-217-000 ; 4-343-000 ; 4-344-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 641,  
FEBRUARY 1, 1963  
TTTL: PRELIMINARY ANALYSIS OF THE FLUXES AND SPECTRUMS OF TRAPPED  
PARTICLES AFTER THE NUCLEAR TEST OF JULY 9, 1962 (U), 9 P (U)

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19679  
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copy: 1 id: 52462-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 19680

AUTH: PIEPER G.F.  
CLSS: U  
CONN: NOW 62 0604 C (BNW)  
CORP: APPLIED PHYSICS LABORATORY (SILVER SPRING-MARYLAND)  
DATE: 6211  
DESC: SATELLITE (TRAAC) ; EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
SHOT: STARFISH  
TSHO: HI-ALT  
SUJO: 2-217-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 651  
FEBRUARY 1, 1963  
TTTL: SECOND RADIATION BELT FROM THE JULY 9, 1962, NUCLEAR DETONATION (U),  
5 P (U)

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19680

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copy: 1 id: 52463-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19681  
AUTH: MOTZ H.T. ; CARTER R.E.  
CLSS: U  
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NEW MEXICO)  
DATE: 6211  
DESC: test instruments nuclear radiation beta electron beams  
SUJO: 4-344-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 657,  
FEBRUARY 1, 1963  
TTTL: ARTIFICIAL RADIATION BELT STUDIES WITH A FISSION BETA-RAY SOURCE  
(U), 5 P (U)

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19681

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copy: 1 id: 52464-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19682  
AUTH: HESS W.N.  
CLSS: U  
CORP: NASA/GODDARD SPACE FLIGHT CENTER (GREENBELT-MARYLAND)  
DATE: 6211  
DESC: SATELLITE (TRAAC) SATELLITE (TELSTAR) SATELLITE (INJUN 1) ;  
EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
REPN: NASA TN D 1687  
SHOT: STARFISH  
TSHO: HI-ALT

SUJO: 2-217-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 667,  
FEBRUARY 1, 1963  
TITL: ARTIFICIAL RADIATION BELT MADE ON JULY 9, 1962 (U), 17 P (U)

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19682

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copy: 1 id: 52465-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19685  
AUTH: DYCE R.B. ; HOROWITZ S.  
CLSS: U  
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CALIFORNIA) , AIR  
FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MASSACHUSETTS)  
DATE: 6211  
DESC: Nuclear Weapon Environment Induced Synchrotron Noise  
DESC: PALMYRA I HUANCAYO PERU WAKE I OAHU HAWAII CANTON I JOHNSTON I S1  
SHIP S2 SHIP S3 SHIP S4 SHIP ; EXPERIMENTAL  
SHOT: STARFISH  
TSHO: HI-ALT  
SUJO: 2-420-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 713,  
FEBRUARY 1, 1963  
TITL: MEASUREMENTS OF SYNCHROTRON RADIATION AT CENTRAL PACIFIC SITES (U),  
9 P (U)

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19685

.endblock

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copy: 1 id: 52468-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19686  
AUTH: PETERSON A.M. ; HOWER G.L.  
CLSS: U  
CORP: STANFORD UNIVERSITY (PALO ALTO-CALIFORNIA) , STANFORD RESEARCH  
INSTITUTE (MENLO PARK-CALIFORNIA)  
DATE: 6211  
DESC: Nuclear Weapon Environment Induced Synchrotron Noise  
DESC: THEORY  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
SHOT: STARFISH  
TSHO: HI-ALT  
SUJO: 2-217-000 ; 2-420-000  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 3 (U), P 723,  
FEBRUARY 1, 1962  
TITL: SYNCHROTRON RADIATION FROM HIGH-ENERGY ELECTRONS (U), 12 P (U)

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19686

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copy: 1 id: 52469-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19814

AUTH: JOHNSON M.H. ; LIPPMANN B.A.

CLSS: U

CORP: AERONUTRONIC DIVISION OF PHILCO CORPORATION (NEWPORT  
BEACH-CALIFORNIA) , LAWRENCE RADIATION LABORATORY  
(LIVERMORE-CALIFORNIA)

DATE: 6008

DESC: SURVEY THEORY

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP

EMPF: 221

TSHO: HI-ALT

SUJO: 2-510-000

SYMJ: PHYSICAL REVIEW (U) VOLUME 119, NUMBER 3 (U), P 827, AUGUST 1, 1960

TITL: ELECTROMAGNETIC SIGNALS FROM NUCLEAR EXPLOSIONS IN OUTER SPACE (U),  
2 P (U)

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19814

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copy: 1 id: 52596-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19819-018

AUTH: HILLEND AHL R.W.

CLSS: SRD

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 5912

DESC: Nuclear Weapon Environment Visible Output source strength total  
intensity L5

DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Environment Visible Output rate L5

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5

SUJO: 1-410-000 ; 1-440-000 ; 2-110-000

SYMJ: PROCEEDINGS OF THE RESEARCH AND DEVELOPMENT SYMPOSIUM ON EYE  
PROTECTION FROM NUCLEAR WEAPONS FLASH

TITL: NUCLEAR WEAPONS FLASH CHARACTERISTICS (U), 16 P., (SRD)

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19819-018

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copy: 1 id: 52613-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19819-101  
AUTH: MONAHAN T.I.  
CLSS: SRD  
DATE: 5912  
DESC: SUMMARY  
DESC: Simulation Facilities Techniques biomedical nuclear radiation L5  
RETINAL BURN  
SUJO: 4-251-000  
SYMJ: PROCEEDINGS OF THE RESEARCH AND DEVELOPMENT SYMPOSIUM ON EYE  
PROTECTION FROM NUCLEAR WEAPONS FLASH  
TITL: SUMMARY REPORT ON ACTIVITY AT THE NAVAL MATERIAL LABORATORY NEW YORK  
NAVAL SHIPYARD, BROOKLYN, N.Y. (U), 6 P., (SRD)

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19819-101

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copy: 1 id: 52619-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19819-168  
AUTH: JENKINS R.J.  
CLSS: SRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 5912  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals thermal ocular effects L1  
SUJO: 3-313-200  
SYMJ: PROCEEDINGS OF THE RESEARCH AND DEVELOPMENT SYMPOSIUM ON EYE  
PROTECTION FROM NUCLEAR WEAPONS FLASH  
TITL: LABORATORY PROGRAM TO STUDY METHODS OF PROTECTION OF THE EYES FROM  
FLASH BLINDNESS (U), 8 P., (SRD)

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19819-168

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copy: 1 id: 52626-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 19858  
CLSS: SRD  
CORP: CONTINENTAL ARMY COMMAND (FT. BLISS, TX.)  
DATE: 6112  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L5  
DESC: Nuclear Weapon Effects structures field fortifications L1  
DESC: EXPERIMENTAL  
DESC: Cross Sections gamma L5 SOIL  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5  
EFFT: NEUTRON ; GAMMA  
REPN: OSWD 60 2

SHOT: ABLE (R) ; BAKER 1 (R) ; BAKER 2 (R) ; EASY (R) ; FOX (R) ; BAKER  
(BJ) ; CHARLIE (BJ) ; DOG (BJ) ; ITEM ; SUGAR ; GRABLE ; TESLA ; ESS  
; POST ; MET ; APPLE II ; PRISCILLA ; HAMILTON ; HUMBOLDT  
TSHO: LOW-ALT  
SUJO: 1-710-000 ; 3-140-000 ; 3-312-100 ; 9-830-000  
TEMP: A7062  
TITL: PROTECTION OFFERED BY FOXHOLES TO NUCLEAR RADIATION (U), 67 P.,  
(SRD)

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19858  
.endblock

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copy: 1 id: 52670-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: 19861  
ABS: Analysis has been made of the hazard from airborne plutonium from  
weapon accidents.  
AUTH: MERRITT M.L. ; COWAN M. ; REED J.W. ; SHREVE J.D.  
CLSS: SRD  
CORP: SANDIA CORPORATION (ALBUQUERQUE, NM.)  
DATE: 5907  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1 DOGS  
DESC: Nuclear weapon safety radiological L1  
REPN: SC 4326 (TR)  
SHOT: PROJECT 57  
SOCE:   
SUJO: 3-312-220 ; 4-838-100  
TEMP: A7199  
TITL: AIRBORNE PLUTONIUM FROM WEAPON ACCIDENTS (U), 33 P., (SRD)  
TNFF: 8859

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20090  
ADNO: 284191  
AUTH: HALLMARK W.C.  
CLSS: U  
CONN: AF 33 (616) 7250  
CORP: CHANCE VOUGHT CORP. (DALLAS, TX.)  
DATE: 6205  
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1  
DESC: test instruments test hardware acceleration measurement L1  
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1  
MAGNETOSTRUCTIVE DELAY LINE MEMORY MAGNETIC DRUM



DESC: test instruments test hardware pressure stress L1 PRESSURE  
TRANSDUCER  
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1  
PULSE AMPLIFIER  
DESC: Nuclear Weapon Effects electrical mechanical non-aircraft engines  
non-missile motors L1 SYNCHRO  
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit  
network L1 BLOCKING OSCILLATOR IF STRIP FLIP FLOPS CATHODE FOLLOWERS  
ENCODER VOLTAGE DETECTOR POWER CONTRACTOR  
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio  
microwave systems L1 KLYSTRONS  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 MIXER DIODES GA AS DIODES SE  
RECTIFIER  
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 CERAMIC POTENTIOMETERS  
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1  
EFFT: TREE  
REPN: ASD TR 62 550  
SUJO: 3-132-220 ; 3-212-000 ; 3-213-000 ; 3-219-000 ; 3-221-000 ;  
3-222-000 ; 3-225-000 ; 3-229-000 ; 3-233-000 ; 4-311-000 ;  
4-314-000

TITL: RADIATION EFFECTS STUDY FOR TERCOM (U), CA. 300 P., (U)  
TREE: 300

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20134  
AUTH: KESTER J.E.  
CLSS: U  
CONN: AF 33(616) 7017  
CORP: UNIVERSITY OF DAYTON RESEARCH INSTITUTE  
DATE: 6107  
DESC: THEORY  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L5  
DESC: Radiation Transport thermal L1  
REPN: ASD TN 61 86  
SUJO: 1-210-000 ; 9-610-000  
TITL: ON THE UNATTENUATED THERMAL RADIATION FROM NEAR SEA LEVEL NUCLEAR  
EXPLOSIONS (U), 11 P., (U)

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INUM: 20196  
AUTH: PETERSON J.D. ; BENNETT W.P.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)  
DATE: 6101  
DESC: Nuclear Weapon Effects materials not systems associated L1 ROCK  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: EXPERIMENTAL  
EFFT: THERMAL  
REPN: UCRL 6251  
SHOT: NEPTUNE  
TSHO: UG-CONTAINED  
SUJO: 2-223-200 ; 3-240-000  
TITL: RADIATION AND TEMPERATURE MEASUREMENTS OF THE NEPTUNE EVENT (U), 50  
P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20247  
CLSS: SRD CNWDI  
CORP: ARMY COMMAND, CONTINENTAL (FT. BLISS, TX.)  
DATE: 6010  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1  
EFFT: NEUTRON  
REPN: OSWD 59 4  
SOCE: MK-5 ; MK-6 ; MK-7 ; MK-12 ; MK-40 ; MK-19 ; MK-33 ; MK-31 ; XW-45 ;  
XW-30  
SUJO: 3-161-100  
TEMP: A8155  
TITL: RADIATION EFFECTS OF ONE NUCLEAR EXPLOSION ON A SECOND NUCLEAR  
WEAPON; VOL. 1 (U), 53 P., (SRD CNWDI)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20256  
CLSS: U  
CORP: FEDERAL RADIATION COUNCIL

DATE: 6109  
DESC: Nuclear RDT&E Research Program Descriptions biomedical L1 I-131  
RU-226 SR-90 SR-89  
DESC: SUMMARY  
REPN: FRC 2  
SUJO: 4-150-000  
TITL: BACKGROUND MATERIAL FOR THE DEVELOPMENT OF RADIATION PROTECTION  
STANDARDS (U), 19 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20266

ABS: This study was conducted to determine the amount and size of simulated dry fallout particles retained by various Quartermaster Corps clothing and packaging materials, after field decontamination procedures are applied. An attempt also was made to correlate qualitatively the amount retained with surface properties of the materials. Dry spherical, glass beads in selected size-distribution groups (14-270 mu, 14-100 mu, and 14-75 mu) were used to simulate fallout particles from a nuclear detonation. The amount remaining was measured gravimetrically and visually by optical microscope after application of three mechanical removal operations. It was found that materials having entrapping fibers retained the largest amount of beads. The amount was directly proportional to the number of open spaces and the number of loose fibers that acted as entrappers.

ABS: Scrim-back packaging material retained 0.3 g/ft<sup>2</sup> of particles which had an average diameter of 50 mu. Cotton sateen clothing and cotton poplin clothing had lesser amounts. All other materials tested retained zero or insignificant amounts. Mechanical entrapment of particles by the loose fibers appeared to be the principal mechanism of retention.

AUTH: KAWAHARA F.K.  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6203  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1  
DESC: SIMULATION (GLASS BEADS) ; EXPERIMENTAL  
REPN: NRDL TR 557  
SUJO: 3-312-210  
TITL: RESIDUAL CONTAMINATION OF QUARTERMASTER CORPS CLOTHING AND PACKAGING  
MATERIALS; RETENTION OF SIMULATED DRY FALLOUT PARTICLES (U), 29 P.,  
(U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20272  
AUTH: JOHNSON E.R.  
CLSS: U  
CONN: DA 36 039 SC 89148  
CORP: STEVENS INSTITUTE OF TECHNOLOGY (HOBOKEN, N.J.)  
DATE: 6200  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 TUBES  
DESC: BIBLIOGRAPHY  
REPN: SIT 89148 FR  
SUJO: 3-229-000  
TITL: LITERATURE STUDY OF RADIATION EFFECTS ON ELECTRON DEVICES;  
SEMIANNUAL REPORT NO. 1, 1 DECEMBER 1961 THROUGH 1 JUNE 1962 (U), 22  
P., (U)  
TREE: 305

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20279  
AUTH: DUBININ N.P.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION  
DATE: 6100  
DESC: Nuclear Weapon Effects on plants ionizing radiation prompt L5  
SENSITIVITY OF CROPS TO GAMMA  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals ionizing radiation L1  
EFFT: GAMMA  
REPN: AEC TR 5376  
SUJO: 3-312-000 ; 3-332-100  
TITL: PROBLEMS OF RADIATION GENETICS (U), 511 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20303  
AUTH: SHVEDOV V.P.  
CLSS: U

CORP: ATOMIC ENERGY COMMISSION  
DATE: 5900  
DESC: Nuclear Weapon Effects supply food water L1  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: SUMMARY  
DESC: test instruments nuclear radiation fallout debris sampling  
collectors L5  
DESC: test instruments nuclear radiation gamma L5  
REPN: AEC TR 4599  
SUJO: 2-223-100 ; 2-225-100 ; 3-171-000 ; 4-341-000 ; 4-345-000  
TITL: EVALUATION OF THE CONTAMINATION OF THE BIOSPHERE BY PRODUCTS OF  
NUCLEAR TESTS (U), 154 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20304  
AUTH: NISHIWAKI Y.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION  
DATE: 5900  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L5  
DESC: THEORY  
EFFT: GAMMA  
REPN: AEC TR 4463  
SUJO: 2-225-100 ; 3-312-210 ; 3-540-000  
TITL: ON THE METHOD OF ESTIMATION OF THE POPULATION DOSE, POPULATION, AND  
SURFACE AREA COVERED BY THE DIFFUSION OF RADIOACTIVE CLOUDS (U), 23  
P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20305  
ABS: It is essential to know the degree of radioactivity of the external  
environment. The solution of this problem involves the determination  
of small concentrations of radioactive substances in various  
objects. Such determinations possess a number of specific features  
and require special methods of investigation. This monograph  
presents in detail the sampling methods, radio-chemical,

physicochemical, and physical methods of determination, identification, and measurement of the activity both of total fission products, and of individual isotopes. Then the problems of the composition of artificial radioactive substances found in the external environment, their distribution, global fallout, and migration are discussed.

ABS: Data are also cited on a dosimetric estimation of the radioactivity of the external environment, which depends on the fission products of heavy nuclei that fall out from the atmosphere.

AUTH: SHVEDOV V.P. ; SHIROKOV S.I.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION

DATE: 6200

DESC: test instruments nuclear radiation fallout debris sampling  
collectors L5

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L5

DESC: Nuclear Warfare Postattack Recovery USSR L1

DESC: SUMMARY

DESC: Nuclear Weapon Environment Fallout isotope concentrations L5

REPN: AEC TR 6049

SUJO: 2-223-100 ; 3-312-220 ; 3-449-200 ; 4-345-000

TITL: RADIOACTIVE CONTAMINATION OF THE EXTERNAL ENVIRONMENT (U), 297 P.,  
(U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20314

ADNO: 265925

AUTH: CURCIO J.A. ; KNESTRICK G.L. ; COSDEN T.H. ; DRUMMETER L.F.

CLSS: U

CORP: NAVAL RESEARCH LAB. (WASH., D.C.)

DATE: 6110

DESC: Radiation Transport visible L1

DESC: SUMMARY

REPN: NRL R 5676

SUJO: 9-630-000

TITL: TRANSMISSION OF LIGHT SIGNALS BEYOND THE HORIZON (U), 24 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20325

ABS: In the event of a nuclear attack, the presence of radioactive fallout could overshadow the more immediate weapon effects. Because of its far-reaching and long-lived characteristics, fallout from a single megaton-range detonation could make thousands of square miles inaccessible for extended periods of time. The resultant loss of the use of affected but unprotected installations together with their personnel will be, in many cases, militarily unacceptable. Thus, a means is needed for saving those important, manned facilities which escape the damaging effects of blast and heat but are caught within the fallout pattern. A modified form of protective construction is offered as a defense against fallout and its effects. To derive the greatest protective benefits, this concept must be included as an integral part of a radiological defense system.

ABS: By itself, radiologically protective construction is implemented by satisfying one or more of the following objectives: 1. Improving the inherent shelter effectiveness of structures, 2. Minimizing the deposition and retention of fallout, 3. Facilitating the removal of fallout. To this end, a number of protective principles are presented which can be either incorporated into the design of new buildings or applied to existing buildings.

AUTH: OWEN W.L.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 6201

DESC: Nuclear Warfare Postattack Recovery decontamination L1

DESC: Civil Defense shelters L1

DESC: Nuclear Warfare Postattack Recovery civilians population L1

DESC: SUMMARY

REPN: NRDL 467

SUJO: 3-442-000 ; 3-448-900 ; 3-474-000

TITL: RADIOLOGICAL PROTECTIVE CONSTRUCTION; PRINCIPLES FOR THE PROTECTION OF FACILITIES AND THEIR INHABITANTS AGAINST FALLOUT (U), 150 P., (U)

TNFF: 5602

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created: 12/27/1991 type: REPORT permanent

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INUM: 20345

ABS: Potential hazards to military personnel due to residual radiation from fall-out are considered. Several theories -the relation between genetic effects and the form of radia-amounts of radiation resulting from the atomic explosions This paper was previously abstracted from the original language and appears in NSA, Vol. 13, as abstract No. ACCIDENTS; BLAIR MODEL; CONTAMINATION; FALLOUT; IRRADIATION; MAN; PERSONNEL; RADIATION DOSES; RADIATION INJURIES; RADIOBIOLOGY; RECOVERY; SHELTERS; SHIELDING

AUTH: SHAPIRO E.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 6005  
DESC: THEORY  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1  
EFFT: GAMMA  
REPN: NRDL TR 421  
SUJO: 3-312-210  
TITL: OPERATIONAL SIGNIFICANCE OF BIOLOGICAL RECOVERY FROM CHRONIC  
IRRADIATION--A COMPARISON OF SEVERAL RECOVERY THEORIES (U), 46 P.,  
(U)

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INUM: 20351  
AUTH: PIONTKOVSKOGO I.A.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION  
DATE: 6100  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
EFFT: NEUTRON ; GAMMA  
REPN: AEC TR 5553  
SUJO: 3-312-100 ; 3-312-210  
TITL: EFFECTS OF IONIZING RADIATION ON THE FUNCTIONS OF THE HIGHER NERVOUS  
SYSTEM OF PROGENY (U), 222 P., (U)

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INUM: 20355  
AUTH: FUNSHTEIN L.V.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION  
DATE: 6100  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals ionizing radiation L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
EFFT: GAMMA  
REPN: AEC TR 5630  
SUJO: 3-312-000 ; 3-312-220



TITL: ATLAS ON THE PATHOLOGICAL ANATOMY OF ACUTE RADIATION SICKNESS IN  
EXPERIMENT (U), 220 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20356  
AUTH: IVANOV A.E.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION  
DATE: 6100  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1

DESC: SUMMARY  
REPN: AEC TR 5500  
SUJO: 3-312-220  
TITL: PATHOANATOMICAL RADIATION-INDUCED CHANGES IN LUNGS (U), 119 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20555  
AUTH: STROPE W.E. ; PORTEOUS L.G. ; GREIG A.L.  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 5910  
DESC: Civil Defense shelters L1  
DESC: Civil Defense economic considerations cost analysis L1  
DESC: SUMMARY  
REPN: NRDL TR 366  
SUJO: 3-474-000 ; 3-478-000  
TITL: SPECIFICATIONS AND COSTS OF A STANDARDIZED SERIES OF FALLOUT  
SHELTERS (U), CA. 150 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20560  
CLSS: U

CORP: ARMY CORPS OF ENGINEERS  
DATE: 6101  
DESC: Nuclear Weapon Effects structures aboveground components L1  
DESC: Civil Defense shelters L5  
EFFT: GAMMA ; BETA  
REPN: TM 5 855 2 ; EM 1110 345 461  
SUJO: 3-251-100 ; 3-474-000  
TITL: PROTECTION AGAINST CHEMICAL AND BIOLOGICAL AGENTS AND RADIOLOGICAL  
FALLOUT (U), 72 P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 20573  
ABS: Facilities escaping physical damage from a nuclear attack still may  
have to cope with hazardous amounts of fallout material. The  
survival of personnel and the resumption of vital missions could  
depend upon the timely removal of the fallout deposits. The safe  
performance of such a removal effort is possible only if a detailed  
radiological recovery plan exists before attack. Two closely similar  
experiments were conducted on the operational recovery of an  
artificially contaminated land target complex. In each case a  
suitable recovery plan was formulated and then executed. The results  
showed that, within prescribed dose limits, pre-attack planning of a  
radiological recovery operation is not only feasible but strongly  
recommended.

AUTH: OWEN W.L. ; SARTOR J.D.  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6205  
DESC: EXPERIMENTAL  
DESC: Nuclear Warfare Postattack Recovery decontamination L1  
DESC: Nuclear Warfare Postattack Recovery cities L1  
DESC: Nuclear Weapon Effects structures aboveground cities L5  
DESC: Simulation Facilities Techniques nuclear radiation fallout  
simulation L5  
EFFT: FALLOUT  
REPN: NRDL TR 570  
SUJO: 3-252-000 ; 3-443-000 ; 3-448-900 ; 4-242-000  
TITL: RADIOLOGICAL RECOVERY OF LAND TARGET COMPONENTS--COMPLEX I AND  
COMPLEX II (U), 220 P., (U)  
TNFF: 6220

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created: 12/27/1991 type: REPORT permanent

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INUM: 20581  
AUTH: FRY R.M.  
CLSS: U  
CORP: ATOMIC ENERGY RESEARCH ESTABLISHMENT (HARWELL, BERKSHIRE)  
DATE: 5900  
DESC: Nuclear Energy Power Nuclear Materials waste disposal L5  
DESC: THEORY  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
LA: UK  
REPN: AERE HP/R 2788  
SUJO: 3-312-220 ; 3-530-000  
TITL: BIOLOGICAL HAZARD OF TRITIUM WITH SPECIAL REFERENCE TO DIDO (U), 25  
P., (U)

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INUM: 20590  
AUTH: TOMNOVEC F.M. ; MATHER R.L.  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6004  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
IRRADIATED NTS SOIL  
DESC: SIMULATION (CYCLOTRON) ; EXPERIMENTAL  
DESC: Cross Sections neutron L1 SOIL  
REPN: NRDL TR 413  
SUJO: 2-223-200 ; 9-820-000  
TITL: INFLUENCE OF SOIL COMPOSITION ON THE THERMAL NEUTRON COMPONENT OF  
LARGE SCALE NEUTRON FIELDS (U), 39 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20662  
AUTH: TIUNOV L.A. ; VASIL'EV G.A. ; PARIBOK V.P.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION  
DATE: 6100  
DESC: Nuclear Weapon Effects on animals ionizing radiation L1  
CHEMOPROTECTION

DESC: SUMMARY  
REPN: AEC TR 5241  
SUJO: 3-312-000  
TITL: RADIATION PROTECTION HANDBOOK (U), 254 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20722  
AUTH: ZIGMAN P. ; MACKIN J.  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6002  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
REPN: NRDL TR 400  
SUJO: 2-223-100  
TITL: EARLY TIME DECAY OF FISSION PRODUCT MIXTURES. II, GAMMA ENERGY  
RELEASE AND IONIZATION RATES FOLLOWING THERMAL NEUTRON FISSION OF U  
235 (U), 13 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20731  
CLSS: U  
CORP: ARMY SIGNAL RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, N.J.)  
DATE: 5903  
DESC: DOSIMETERS DOSE-RATE METERS COUNTERS CALIBRATION TEST EQUIPMENT ;  
EXPERIMENTAL  
DESC: Nuclear RDT&E Research Program Descriptions biomedical L1  
DESC: test instruments biomedical L1  
DESC: test instruments nuclear radiation dosimeters radiacs L1  
SUJO: 4-150-000 ; 4-346-000 ; 4-351-000  
TITL: PRINCIPAL TECHNICAL CHARACTERISTICS OF ARMY RADIAC EQUIPMENT (U), 74  
P., (U)

TREE: 651

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created: 12/27/1991 type: REPORT permanent

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INUM: 20775  
AUTH: LESHCHINSKII N.I.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION  
DATE: 6200  
DESC: Nuclear Weapon Effects on animals ionizing radiation L5  
DESC: Nuclear Energy Power Nuclear Materials Facilities security safety  
handling transport safeguards L1 RUSSIAN RULES  
DESC: SUMMARY  
REPN: AEC TR 6315  
SUJO: 3-312-000 ; 3-520-000  
TITL: TRANSPORTATION OF RADIOACTIVE MATERIALS (U), 240 P., (U)

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copy: 1 id: 53719-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 20793  
AUTH: ALLEN F.J. ; FUTTERER A.T.  
CLSS: U  
CORP: ARMY BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)  
DATE: 6207  
DESC: Cross Sections neutron L1 POLYETHYLENE  
DESC: TABULAR  
REPN: BRL MR 1424  
SUJO: 9-820-000  
TITL: LIGHTWEIGHT, RADIOLOGICAL SHIELDING MATERIALS FOR ARMORED VEHICLES  
(U), 28 P., (U)  
TREE: 412

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INUM: 20958  
AUTH: MALIK J.  
CLSS: SRD CNWDI  
CONN: W 7405 ENG 36  
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, N.M.)  
DATE: 6208  
DESC: Nuclear Weapon Environment Initial Gamma L1  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear weapon test yield L1  
EMPF: 240

REPN: LA 1620  
TSHO: SURFACE ; LOW-ALT  
SUJO: 1-700-000 ; 4-835-000  
TEMP: A8481  
TITL: SUMMARY OF INFORMATION ON GAMMA RADIATION FROM ATOMIC WEAPONS (U),  
240 P., (SRD CNWDI)

TREE: 910

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 21187

AUTH: BOTH E.

CLSS: U

CORP: ARMY ELECTRONICS TECHNOLOGY AND DEVICES LAB. (FT. MONMOUTH, N.J.)

DATE: 6000

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 CAPACITOR

DESC: SIMULATION (CO 60) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-229-000

TITL: THERMAL AND RADIATION POLARIZATION IN ORGANIC DIELECTRIC FILMS (U),  
7 P., (U)

TREE: 370

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 21196

AUTH: IKRATH K.

CLSS: U

CORP: ARMY SIGNAL RESEARCH AND DEVELOPMENT LAB. (FT. MONMOUTH, N.J.)

DATE: 6200

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

EFFT: TREE

SUJO: 3-231-000

TITL: NUCLEAR PULSE EFFECTS IN CABLES; A THEORETICAL MODEL FOR TRANSIENT  
RADIATION EFFECTS IN WIRES AND CABLES (U), CA. 40 P., (U)

TREE: 390

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21196

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 21198  
CLSS: U  
CORP: BOEING CO. (SEATTLE, WA.)  
DATE: 6200  
DESC: Nuclear Weapon Effects materials metals alloys L1 CU U AL PB  
DESC: Radiation Transport x-ray L1  
DESC: SIMULATION (REACTOR FLASH X-RAY) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts materials basic  
mechanisms L1 SI GE  
DESC: Nuclear Weapon Effects materials carbon L1  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 CAPACITORS  
DESC: Nuclear Weapon Effects materials plastics resins L1 POLYETHYLENE  
LUCITE  
DESC: Radiation Transport neutron L1  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 DIODE SCR  
EFFT: TREE  
REPN: D2 9878 3  
SUJO: 3-220-200 ; 3-221-000 ; 3-229-000 ; 3-231-000 ; 3-243-000 ;  
3-244-000 ; 3-248-000 ; 9-640-000 ; 9-650-000  
TITL: CONTRIBUTIONS TO THE STATE-OF-THE-ART OF TRANSIENT RADIATION EFFECTS  
IN ELECTRONIC PARTS AND MATERIALS; VOL. 2 (U), 255 P., (U)  
TREE: 310 ; 370 ; 200

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21198  
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copy: 1 id: 54007-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 22164  
CLSS: U  
CONN: AF 33 616 5464  
CORP: ADMIRAL CORP., GOVERNMENT LABS. DIV. (CHICAGO, IL)  
DATE: 5902  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
DESC: Nuclear Weapon Effects electrical mechanical power generation L1  
TRANSFORMERS  
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1  
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects materials fuels lubricants L1 P 264  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS  
DIELECTRICS  
DESC: Nuclear Weapon Effects electrical mechanical non-aircraft engines

non-missile motors L1

EFFT: NETURON ; GAMMA ; TREE

REPN: SCI REPT. 4

SUJO: 3-225-000 ; 3-229-000 ; 3-231-000 ; 3-232-000 ; 3-233-000 ;  
3-238-000

TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS; PHASE 2,  
SCIENTIFIC REPORT NO. 4 (U), 270 P., (U)

TREE: 370 ; 380 ; 385 ; 390 ; 389

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copy: 1 id: 54662-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22165

CLSS: U

CONN: AF 33 616 5464

CORP: ADMIRAL CORP., GOVERNMENT LABS. DIV. (CHICAGO, IL)

DATE: 5905

DESC: Nuclear Weapon Effects electrical mechanical power generation L5

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

DESC: TABULAR

REPN: SCI REPT. 5

SUJO: 3-232-000 ; 4-170-000

TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS; PHASE 2,  
SCIENTIFIC REPORT NO. 5 (U), 37 P., (U)

TREE: 389 ; 642

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copy: 1 id: 54663-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22166

CLSS: U

CONN: AF 33 616 5464

CORP: ADMIRAL CORP., GOVERNMENT LABS. DIV. (CHICAGO, IL)

DATE: 5908

DESC: Nuclear Weapon Effects electrical mechanical non-aircraft engines

non-missile motors L1

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: SCI REPT. 6

SUJO: 3-229-000 ; 3-233-000

TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS; PHASE 2,



SCIENTIFIC REPORT NO. 6 (U), 75 P., (U)

TREE: 389 ; 380 ; 370

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created: 12/27/1991 type: REPORT permanent  
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INUM: 22167

CLSS: U

CONN: AF 33 616 5464

CORP: ADMIRAL CORP., GOVERNMENT LABS. DIV. (CHICAGO, IL)

DATE: 6002

DESC: Nuclear Weapon Effects electronic piecparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 RESISTORS CAPACITORS

DESC: SIMULATION (CO 60) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electrical mechanical power generation L1

DESC: Nuclear Weapon Effects electrical mechanical non-aircraft engines  
non-missile motors L1

EFFT: TREE

REPN: SCI REPT. 8

SUJO: 3-229-000 ; 3-232-000 ; 3-233-000

TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS; PHASE 2,  
SCIENTIFIC REPORT NO. 8 (U), 82 P., (U)

TREE: 389 ; 380 ; 370

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 22354

AUTH: LANDRY J.W.

CLSS: U

CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN)

DATE: 6007

DESC: test instruments nuclear radiation fallout debris sampling  
collectors L1

DESC: MICE PROGRAM ; EXPERIMENTAL

REPN: ORNL 2881

SHOT: TAMALPAIS

TSHO: UG-CONTAINED

SUJO: 4-345-000

TITL: OAK RIDGE NATIONAL LABORATORY SAMPLER FOR THE TAMALPAIS UNDERGROUND  
NUCLEAR DETONATION EXPERIMENT (U), 20 P., (U)

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22354

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copy: 1 id: 54835-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22407  
AUTH: SCHULERT A.R. ; KULP J.L. ; HIRSHMAN R.S. ; HODGES E.J. ; BARTELTSEN  
K. ; MCFADDEN H. ; SOLAZZI M. ; MARTIN E.  
CLSS: U  
CONN: AT (30 1) 1656  
CORP: COLUMBIA UNIVERSITY (PALISADES, NY)  
DATE: 6010  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake  
L1  
DESC: EXPERIMENTAL  
REPN: NYO 9466  
SUJO: 3-312-220 ; 3-332-220  
TITL: DISPOSITION OF NUCLEAR FALLOUT DEBRIS; ANNUAL REPORT (U), 78 P., (U)

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copy: 1 id: 54899-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22413  
AUTH: BATZEL R.E.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 5906  
DESC: THEORY  
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1  
DESC: Nuclear Weapon Environment fallout fractionation L5  
REPN: UCRL 5623  
TSHO: UG-VENTED ; UG-CONTAINED  
SUJO: 2-223-410 ; 2-223-500  
TITL: RADIOACTIVITY ASSOCIATED WITH UNDERGROUND NUCLEAR EXPLOSIONS (U), 14  
P., (U)

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copy: 1 id: 54905-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22427  
AUTH: BENNETT W.P. ; ANDERSON A.L. ; SMITH B.L.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LAB. (MERCURY, NV)  
DATE: 6012  
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence  
transitions L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: Nuclear weapon test yield L9  
DESC: EXPERIMENTAL  
REPN: UCRL 6240  
SHOT: LOGAN  
TSHO: UG-CONTAINED  
SUJO: 2-223-200 ; 2-629-000 ; 4-835-000  
TITL: CAVITY DEFINITION, RADIATION AND TEMPERATURE DISTRIBUTIONS RESULTING  
FROM THE LOGAN EVENT (U), 55 P., (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22440  
AUTH: PFAFF E.R.  
CLSS: U  
CONN: AF 33 616 5464  
CORP: ADMIRAL CORP. (CHICAGO, IL)  
DATE: 5911  
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects electrical mechanical power generation L1  
TRANSFORMERS  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
EFFT: TREE  
REPN: ADM ENREC PH 2 SR 7  
SUJO: 3-221-000 ; 3-231-000 ; 3-232-000  
TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC COMPONENTS; PHASE 2 (U),  
126 P., (U)  
TREE: 389 ; 310 ; 390

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22516

AUTH: EASLEY J.W.  
CLSS: U  
CORP: SANDIA CORP.  
DATE: 6207  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
EFFT: TREE  
REPN: SCR 532  
SUJO: 3-221-000  
TITL: RADIATION DAMAGE TO SEMICONDUCTOR DEVICES (U), 36 P., (U)  
TREE: 310

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copy: 1 id: 55039-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22568  
AUTH: BAUMSTARK J. ; TORGESON L. ; STERN S. ; SCHEKMAN A. ; ZELLER W.  
CLSS: U  
CONN: AT (11 1) 401  
CORP: GENERAL MILLS, INC. (MINNEAPOLIS, MN)  
DATE: 5905  
DESC: test instruments nuclear radiation fallout debris sampling  
collectors L1  
DESC: EXPERIMENTAL  
SUJO: 4-345-000  
TITL: UPPER ATMOSPHERE MONITORING PROGRAM; SIXTH PROGRESS REPORT (U), 32  
P., (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22599  
ABS: This report describes present and future systems which utilize nuclear power? points out anticipated problems in the testing and operational employment phases of these systems? discusses the effects of recovery environment such as water, land, terrain features, atmosphere, and space on nuclear systems? outlines present responsibilities and capabilities of Air Force agencies with regard to explosive ordnance disposal (EOD), search, rescue, and recovery? and discusses concepts of present methods of recovering radioactive material and their potential future applications. It is concluded that radioactive material recovery concepts must be formulated for each individual system and that detailed information is required in

many associated areas before these concepts can be fully exploited.

ABS: These areas include fission product dispersion phenomena, nuclear and/or solar radiation definition, countermeasures, shielding requirements, materials, search and recovery techniques, instrumentation, remote handling equipment capabilities, and human factors.

AUTH: WONG E.D.  
CLSS: SRD  
CORP: AIR FORCE SPECIAL WEAPONS CENTER (KIRTLAND AFB, NM)  
DATE: 6201  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
DESC: Nuclear weapon safety radiological L5  
DESC: BIBLIOGRAPHY SURVEY  
DESC: Nuclear Energy Power Nuclear Materials Facilities security safety handling transport safeguards L1  
REPN: AFSWC TDR 61 73  
SUJO: 3-520-000 ; 3-540-000 ; 4-838-100  
TEMP: A7989  
TITL: RADIOACTIVE MATERIAL RECOVERY CONCEPTS (U), 164 P., (SRD)  
TNFF: 8859

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22635  
CLSS: U  
CORP: DEPT. OF HEALTH, EDUCATION AND WELFARE (WASH., DC)  
DATE: 6101  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic internal L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake L1  
REPN: PB 161371 10  
SUJO: 3-312-220 ; 3-332-220 ; 3-540-000  
TITL: RADIOLOGICAL HEALTH DATA; VOL. 2, NO. 1; QUARTERLY REPORT (U), 60 P., (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22636  
CLSS: U

CORP: DEPT. OF HEALTH, EDUCATION AND WELFARE (WASH., DC)  
DATE: 6007  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake  
L1  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
REPN: PB 161371 4  
SUJO: 3-312-220 ; 3-332-220 ; 3-540-000  
TITL: RADIOLOGICAL HEALTH DATA; VOL. 1, NO. 4, QUARTERLY REPORT (U), 112  
P., (U)

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created: 12/27/1991 type: REPORT permanent  
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INUM: 22658  
AUTH: LAUMETS E. ; KSANDA C.F.  
CLSS: SRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)  
DATE: 5903  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: Cross Sections gamma L1 SHIP SHIELDING STEEL  
REPN: NRDL TR 308  
TSHO: SURFACE  
SUJO: 2-223-200 ; 9-830-000  
TEMP: A8115  
TITL: TECHNIQUE FOR ESTIMATING GAMMA-DOSE-RATE SPECTRA FROM FIELD  
ATTENUATION MEASUREMENTS AND COMPARISON OF RESULTS FOR OPERATION  
CASTLE (U), 123 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 22730  
ABS: The nature of fallout from nuclear detonations on or in seawater is  
described in qualitative terms in order to interrelate the  
anticipated effects of weapon type, depth of burst, and weapon yield  
with respect to the contaminating potential of such detonations to  
ships and on the effectiveness of shipboard manual decontamination  
methods. Data on the decontamination of surfaces contaminated by  
fallout from Castle were analyzed? the analysis shows that the  
results are in reasonable agreement when the amount of contamination

lost due to rain prior to application of the methods is accounted for. Data requirements for conducting field-test decontamination investigations are given, along with methods for interpreting decontamination data for seawater fallout.

AUTH: MILLER C.F.  
CLSS: SFRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)  
DATE: 5905  
DESC: EXPERIMENTAL  
DESC: Nuclear Warfare Postattack Recovery decontamination L1  
REPN: NRDL TR 329  
TSHO: UW  
SUJO: 3-448-900  
TEMP: A8124  
TITL: DECONTAMINATION OF SURFACES CONTAMINATED WITH FALLOUT FROM NUCLEAR  
DETONATIONS AT SEA (U), 52 P., (SFRD)  
TNFF: 6220

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created: 12/27/1991 type: REPORT permanent

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INUM: 22759  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION (WASH., DC)  
DATE: 6202  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1  
DESC: SUMMARY  
REPN: TID 7632 BK. 1  
SUJO: 4-140-000  
TITL: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE HELD IN GERMANTOWN, MARYLAND, NOVEMBER 15-17, 1961; VOL.  
1 (U), 270 P., (U)

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copy: 1 id: 55256-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22759-004  
AUTH: LARSON K.H. ; HAWTHORNE H.A. ; OLAFSON J.H.  
CLSS: U  
CORP: UNIVERSITY OF CALIFORNIA AT LOS ANGELES (LOS ANGELES, CA)  
DATE: 6202  
DESC: Nuclear Weapon Environment fallout fractionation L5  
DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: Nuclear Weapon Environment fallout down fraction L1  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake  
L1  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1  
SHOT: FIZEAU ; GALILEO ; BOLTZMANN ; SHASTA ; DIABLO ; WHITNEY ; SMOKY ;  
WILSON ; NEWTON ; PRISCILLA ; HOOD  
TSHO: LOW-ALT  
SUJO: 2-222-300 ; 2-223-100 ; 2-223-500 ; 2-225-100 ; 2-225-200 ;  
3-312-220 ; 3-332-220  
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 1  
TITL: NEVADA TEST SITE FALLOUT; SOME CHARACTERISTICS, ITS APPARENT  
ENVIRONMENTAL EQUILIBRIUM AND BIOLOGICAL AVAILABILITY (U), 21 P.,  
(U)

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22759-004

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copy: 1 id: 55257-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: 22759-025

ABS: A description is presented of a combination of A. D. Anderson's  
Dynamic Fallout Model (NRDL-D Model) with C. F. Miller's  
thermodynamic model of fractionation which is used to account for  
fractionation in fall-out predictions. Weaknesses of the method are  
pointed out. Data required for testing the model, both from  
laboratory experiments and nuclear detonations, and for achieving  
more meaningful documentation of future nuclear bursts, are  
discussed. (auth) DISTRIBUTION; FALLOUT; FISSION; FRACTIONATION;  
LABORATORY EQUIPMENT; NUCLEAR EXPLOSIONS; TESTING; THERMODYNAMICS

AUTH: FREILING E.C.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)

DATE: 6202

DESC: Nuclear Weapon Environment fallout fractionation L1 DESCRIPTION OF  
MILLER MODEL

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5

DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L5

DESC: Nuclear Weapon Environment Fallout Formation mechanics L1

DESC: THEORY SUMMARY

DESC: Nuclear Weapon Environment fallout transport L1 NRDL-D MODEL

DESC: Nuclear Weapon Environment fallout intensity contours patterns L1

SUJO: 1-210-000 ; 2-110-000 ; 2-221-000 ; 2-223-500 ; 2-224-200 ;

2-225-100

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 1



TITL: FRACTIONATION IN SURFACE BURSTS (U), 22 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22759-047

AUTH: FREILING E.C.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)

DATE: 6202

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

DESC: Nuclear Weapon Environment Fallout Formation mechanics L1

DESC: Nuclear Weapon Environment fallout fractionation L1

DESC: THOERY

TSHO: LOW-ALT

SUJO: 2-221-000 ; 2-223-100 ; 2-223-500

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 1

TITL: PARTICLE FORMATION AND FRACTIONATION IN AIR BURSTS (U), 13 P., (U)

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INUM: 22759-122

ABS: Limitations in the construction of fall-out models imposed by the scarcity of available fall-out data are discussed. The effects of wind shear and speed and shielding factors on the accuracy of fall-out predictions are considered. It is pointed out that conclusions drawn from nuclear test data must be applied with caution to burst conditions likely to be encountered in a nuclear attack. Fallout predictions based on several models currently in use are compared. It is shown that the various models give very different results. It is pointed out that wind conditions can drastically affect the dose-distance relationship as well as the orientation and shape of the pattern. These differences may be quite important in the critical range from about 200 to 700 r where relatively small changes in dose result in large changes in the fatality estimates.

ABS: On a national scale, the additive effects of hundreds of nuclear bursts during a nuclear attack would further complicate the accuracy of fall-out predictions. (C.H.) CONFIGURATION; DISTRIBUTION; EFFICIENCY; ENVIRONMENT; FALLOUT; NUCLEAR EXPLOSIONS; RADIATION DOSES; RADIATION EFFECTS; SHIELDING; STANDARDS; USES; VELOCITY; WIND

AUTH: FERBER G.J. ; HEFFTER J.L.

CLSS: U  
CORP: U.S. WEATHER BUREAU (WASH., DC)  
DATE: 6202  
DESC: Nuclear Weapon Environment fallout down fraction L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
MODEL COMPARISON  
DESC: SUMMARY  
SUJO: 2-225-100 ; 2-225-200  
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 1  
TITL: COMPARISON OF FALLOUT MODEL PREDICTIONS WITH A CONSIDERATION OF WIND  
EFFECTS (U), 14 P., (U)

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22759-122

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INUM: 22759-223

ABS: Brief summaries are presented from a series of geochemical studies on stratospheric fall-out. A time interval of 10/sup 8/ years between the cessation of nucleosynthesis and the formation of the earth was calculated, assuming that the extinct Pu/sup 244/ was mainly responsible for the production of excess xenon isotopes in the earth's atmosphere. Other sources of atmospheric xenon are discussed. Experimental results support the Brewer-Dobson model of global circulation of air masses. A pronounced peak of fall-out rate during the spring months was attributed to an increase in the rate of material transfer from the stratosphere to the troposphere, caused by the sinking of cold air masses formed above the winter pole during the late winter months.

ABS: The effects of seasonal and global movements of stratospheric air masses on spring peaks of Sr/sup 90/ fall-out and the stratospheric residence time of Sr/sup 90/ and Ce/sup 144/ are discussed. Factors contributing to a sharp increase in the Sr/sup 90/Sr/sup 90/ ratio in rain at Fayetteville, Arkansas, after the French nuclear detonations of Feb. and April 1960 are discussed. (C.H.) AGE ESTIMATION; AIR; ARKANSAS; ATMOSPHERE; CERIUM 144; EARTH; EFFICIENCY; FALLOUT; GEOCHEMISTRY; GEOPHYSICS; MASS; MATHEMATICS; METEOROLOGY; NUCLEAR EXPLOSIONS; PLUTONIUM 244; QUANTITY RATIO; RADIOISOTOPES; RAIN; SEASONS; STRATOSPHERE; STRONTIUM 89; STRONTIUM 90; XENON

AUTH: KURODA P.K. ; HODGES H.L. ; MENON M.P. ; MO T. ; NIX J. ; FRY L.M. ;  
MOORE H.E.

CLSS: U  
CORP: UNIVERSITY OF ARKANSAS (FAYETTEVILLE, AR)  
DATE: 6202  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Nuclear Weapon Environment radiation decay beta decay L5  
SUJO: 2-223-100 ; 2-223-430  
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A

CONFERENCE, VOL. 1

TITL: GEOCHEMICAL STUDIES ON THE STRATOSPHERIC FALLOUT (U), 19 P., (U)

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INUM: 22760-271

AUTH: COLLINS W.R. JR.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION (NEW YORK, NY)

DATE: 6202

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

DESC: SUMMARY

SUJO: 2-223-100

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 2

TITL: MEASURED AND PREDICTED CONTRIBUTIONS FROM FALLOUT TO ENVIRONMENTAL  
RADIATION LEVELS (U), 15 P., (U)

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INUM: 22760-318

ABS: The impact of radioactivity on the biological or ecological systems that comprise the biosphere is discussed from the standpoint of effects on man's well being and economy. Major pathways of transfer of mineral nutrients and radioisotopes between compartments in a forest ecosystem are outlined. It is pointed out that cycling of nuclides in complicated ecological systems involves both rate processes and transfer mechanisms. Data are summarized from a number of studies on ecological factors that affect the initial distribution of radioactive contamination in the biosphere, its subsequent circulation and accumulation, its ultimate fate, effects of radiation from radionuclides on natural ecosystems, and transfer of radionuclides through food chains to man.

ABS: It is stressed that the understanding of the biogeochemistry of natural major and minor elements in ecosystems is closely related to the interpretation of the movement of radioactive contaminants through these systems. The possibility of such contamination arising from radioactive waste disposal, weapons fall-out, or nuclear war, leads to the need for mathematical models of conditions that could predict the extent and time scale of such contamination. (C.H.)  
BIOCHEMISTRY; BIOLOGY; CONTAMINATION; DIFFUSION; DISTRIBUTION;  
EARTH; ECONOMICS; ELEMENTS; ENVIRONMENT; FALLOUT; FOOD; MAN;

MATHEMATICS; NUCLEAR EXPLOSIONS; QUANTITY RATIO; RADIATION EFFECTS;  
RADIOACTIVITY; RADIOISOTOPES; STANDARDS; WASTE DISPOSAL

AUTH: AUERBACH S.I.  
CLSS: U  
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN)  
DATE: 6202  
DESC: Nuclear Weapon Effects ecological L1  
DESC: SUMMARY  
SUJO: 3-341-000  
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 2  
TITL: SUMMARY OF SESSION, FIRST NATIONAL SYMPOSIUM ON RADIOECOLOGY 1961,  
CYCLING IN THE TERRESTRIAL ENVIRONMENT (U), 30 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22760-376  
AUTH: GRUMMITT W.E.  
CLSS: U  
CORP: ATOMIC ENERGY OF CANADA LIMITED (CHALK RIVER, ONTARIO, CANADA)  
DATE: 6202  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
SUJO: 3-312-220  
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 2  
TITL: STRONTIUM AND BARIUM IN BONE AND DIET (U), 5 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22760-381  
AUTH: KNAPP H.A.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION (WASH., DC)  
DATE: 6202  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: Nuclear Weapon Effects supply food water L5  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic L1  
SUJO: 3-171-000 ; 3-312-220 ; 3-332-200

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 2

TITL: EFFECT OF DEPOSITION RATE AND CUMULATIVE SOIL LEVEL ON THE  
CONCENTRATION OF STRONTIUM-90 IN U.S. MILK AND FOOD SUPPLIES (U), 24  
P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22760-405  
AUTH: RIVERA J.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION (NEW YORK, NY)  
DATE: 6202  
DESC: Nuclear Weapon Effects supply food water L5  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L5  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1

SUJO: 2-223-100 ; 3-171-000 ; 3-312-220

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 2

TITL: STRONTIUM-90 IN NEW YORK CITY AND SAN FRANCISCO DIETS RESULTING FROM  
THE OCTOBER 1961 SOVIET TEST SERIES (U), 10 P., (U)

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INUM: 22760-415  
AUTH: BIRD P.M. ; MAR P.G. ; JOSIE G.H. ; HOBSON F.E.  
CLSS: U  
CORP: DEPARTMENT OF NATIONAL HEALTH AND WELFARE (OTTAWA, CANADA)  
DATE: 6202  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1

DESC: Nuclear Weapon Effects supply food water L1

DESC: SUMMARY

SUJO: 3-171-000 ; 3-312-220

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 2

TITL: INVESTIGATION OF THE REPRESENTATIVENESS OF 'GRAB-SAMPLING?' IN A SR  
90 DRIED MILK PROGRAM PRELIMINARY RESULTS (U), 10 P., (U)

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INUM: 22760-425  
AUTH: LOUTIT J.F.  
CLSS: U  
CORP: MEDICAL RESEARCH COUNCIL (HARWELL, ENGLAND)  
DATE: 6202  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: SUMMARY  
SUJO: 3-312-220  
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 2  
TITL: ACCRETION AND REPLACEMENT OF SKELETAL MINERAL DEDUCED FROM SURVEY IN  
THE UNITED KINGDOM OF BONES FOR SR 90 (U), 1 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22760-426  
AUTH: COMAR C.L. ; WASSERMAN R.H. ; LENGEMANN F.W. ; THOMPSON J.C. JR.  
CLSS: U  
CORP: CORNELL UNIVERSITY (ITHACA, NY)  
DATE: 6202  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic L1  
DESC: Nuclear Weapon Effects supply food water L1  
SUJO: 3-171-000 ; 3-312-220 ; 3-332-200  
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 2  
TITL: FALLOUT AND THE FOOD CHAIN; A STATUS REVIEW (U), 31 P., (U)

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INUM: 22760-457  
AUTH: KULP J.L.

CLSS: U  
CORP: COLUMBIA UNIVERSITY (PALISADES, NY)  
DATE: 6202  
DESC: SUMMARY  
DESC: Nuclear Weapon Environment fallout transfer L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
SUJO: 2-224-300 ; 3-312-220  
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 2  
TITL: PREDICTION OF THE SR 90 CONCENTRATION IN THE WORLD POPULATION (U),  
20 P., (U)

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INUM: 22760-477  
AUTH: ANDERSON E.C. ; WARD G.M. ; HOLLAND J.Z. ; LANGHAM W.H.  
CLSS: U  
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, NM)  
DATE: 6202  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: Nuclear Weapon Effects supply food water L1  
SUJO: 3-171-000 ; 3-312-220  
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS; PROCEEDINGS OF A  
CONFERENCE, VOL. 2  
TITL: CESIUM 137 LEVELS IN UNITED STATES POWDERED MILK AND IN THE  
POPULATION (U), 58 P., (U)

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INUM: 22819-30  
AUTH: WOUTERS L.F. ; BOYRIE E.A. ; HYNE A. ; MCDONALD H.  
CLSS: U  
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 5905  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry  
general descriptions L1  
EMPF: 251  
SUJO: 2-311-000

SYMJ: PROCEEDINGS OF THE SECOND PLOWSHARE SYMPOSIUM, PT. 5  
TITL: INTERACTION OF MICROWAVE RADIATION WITH IONIZED AIR (U), 14 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22845  
AUTH: NORDYKE M.D.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 6110  
DESC: Nuclear Energy Peaceful Applications excavation L1  
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1  
DESC: Nuclear Weapon Environment Ground Shock scaling L1  
REPN: UCRL 6438 PT. 1  
SUJO: 2-624-000 ; 2-625-000 ; 3-481-000  
TITL: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM; PT. 1 (U), CA. 150 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22845-E  
AUTH: VAILE R.B. JR.  
CLSS: U  
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA)  
DATE: 6110  
DESC: Nuclear Weapon Environment Ground Shock scaling L1 PACIFIC CRATERS  
AND WET SOIL  
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1  
DESC: EXPERIMENTAL  
SHOT: SUGAR ; UNCLE ; MIKE ; BRAVO ; MALE  
TSHO: SURFACE ; WATER-SURFACE  
SUJO: 2-624-000 ; 2-625-000  
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM, PT. 1  
TITL: PACIFIC CRATERS AND SCALING LAWS (U), 36 P., (U)

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INUM: 22845-F  
AUTH: NORDYKE M.D.  
CLSS: U  
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 6110  
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1  
SHOT: SUGAR ; UNCLE ; ESS ; NEPTUNE  
TSHO: UG-VENTED  
SUJO: 2-625-000  
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM, PT. 1  
TITL: NEVADA TEST SITE NUCLEAR CRATERS (U), 14 P., (U)

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INUM: 22845-G  
AUTH: MURPHEY B.F.  
CLSS: U  
CORP: SANDIA LABS. (ALBUQUERQUE, NM)  
DATE: 6110  
DESC: SIMULATION (HE)  
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture  
displacement particle velocity L5 PARTICLE VELOCITY  
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L5  
STRESS  
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1  
EFFECT OF MEDIUM  
SHOT: SCOOTER ; STAGECOACH  
TSHO: UG-VENTED  
SUJO: 2-621-000 ; 2-623-000 ; 2-625-000  
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM, PT. 1  
TITL: EXPLOSION CRATERS IN DESERT ALLUVIUM (U), 13 P., (U)

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INUM: 22845-H  
AUTH: VORTMAN L.J.  
CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)  
DATE: 6110  
DESC: SIMULATION (HE) ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment dust moisture injection atmosphere L5  
DUST FROM DEEPLY BURIED CHARGES  
DESC: Nuclear Weapon Environment Ground Shock scaling L1  
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1  
SHOT: BUCKBOARD  
TSHO: UG-VENTED  
SUJO: 2-222-400 ; 2-624-000 ; 2-625-000  
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM, PT. 1  
TITL: HIGH-EXPLOSIVE CRATERS IN TUFF AND BASALT (U), 17 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22845-I  
AUTH: VIOLET C.E.  
CLSS: U  
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 6110  
DESC: Nuclear Weapon Environment Ground Shock scaling L1  
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1  
TSHO: UG-VENTED  
SUJO: 2-624-000 ; 2-625-000  
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM, PT. 1  
TITL: GENERALIZED EMPIRICAL ANALYSIS OF CRATERING (U), 23 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22846  
AUTH: NORDYKE M.D.  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 6110  
REPN: UCRL 6438 PT. 2  
TITL: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM; PT. 2 (U), CA. 150 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22846-J  
AUTH: MAENCHEN G. ; NUCKOLLS J.  
CLSS: U  
CCDE: UNEC ; TENSOR  
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 6110  
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture  
displacement particle velocity L5  
TSHO: UG-CONTAINED  
SUJO: 2-621-000  
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM, PT. 2  
TITL: CALCULATIONS OF UNDERGROUND EXPLOSIONS (U), 6 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22846-K  
AUTH: NORDYKE M.D.  
CLSS: U  
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 6110  
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture  
displacement particle velocity L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1  
SHOT: SCOOTER ; NEPTUNE  
TSHO: UG-VENTED  
SUJO: 2-621-000 ; 2-625-000  
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM, PT. 2  
TITL: PRELIMINARY NOTES ON THE MECHANICS OF EXPLOSIVE CRATER FORMATION  
(U), 27 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22846-L  
AUTH: BRODE H.L. ; BJORK R.L.  
CLSS: U  
CORP: RAND CORP. (SANTA MONICA, CA)  
DATE: 6110  
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1  
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1  
PRESSURES  
DESC: THEORY  
TSHO: UG-VENTED  
SUJO: 2-623-000 ; 2-625-000  
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM, PT. 2  
TITL: CRATERING FROM A MEGATON SURFACE BURST (U), 43 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22846-O  
AUTH: HESS W.N.  
CLSS: U  
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 6110  
DESC: Nuclear Weapon Environment Ground Shock throwout projectiles L1  
DESC: EXPERIMENTAL  
SHOT: SCOOTER  
SUJO: 2-626-000  
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM, PT. 2  
TITL: THROWOUT CALCULATIONS (U), 12 P., (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22846-P  
AUTH: VAILE R.B. JR. ; SALMON V.  
CLSS: U  
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA)  
DATE: 6110  
DESC: Nuclear Weapon Environment Ground Shock throwout projectiles L1  
SHALLOW BURIED BURSTS MISSILES ARE LARGELY PAVEMENT AND WALLS OF  
CONCRETE  
SHOT: UNCLE  
TSHO: UG-VENTED

SUJO: 2-626-000  
SYMJ: PROCEEDINGS OF THE GEOPHYSICAL LABORATORY/LAWRENCE RADIATION  
LABORATORY CRATERING SYMPOSIUM, PT. 2  
TITL: EVALUATION OF MISSILE HAZARD, UNDERGROUND SHOT (U), 41 P., (U)

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copy: 1 id: 55425-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 22878  
AUTH: KORANDA J.J. ; MARTIN J.R.  
CLSS: U  
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 5907  
DESC: PRIMARILY ENVIRONMENTAL IN DISTRIBUTION OF TRITIUM FROM SEDAN EVENT  
; EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1  
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake  
L1  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Nuclear Weapon Environment fallout redistribution L1  
REPN: UCRL 71867 ; CONF 690303 3  
SHOT: SEDAN ; CABRIOLET  
TSHO: UG-VENTED  
SUJO: 2-223-100 ; 2-225-500 ; 3-312-200 ; 3-332-220  
TITL: PERSISTENCE OF RADIONUCLIDES AT SITES OF NUCLEAR DETONATIONS (U), 50  
P., (U)

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copy: 1 id: 55448-1001 library: DOCUMENT price: \$.00  
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INUM: 23874  
ABS: A general method for determining aircraft safety from the effects of  
a nuclear explosion is presented. This method, which has evolved  
from the work of several contributors over a period of time, has  
been reanalyzed and condensed into one presentation. The weapon  
effects considered are thermal radiation, gust, overpressure, and  
nuclear radiation. Discussions of the basic assumptions involved in  
the calculation method, as well as working curves and sample  
problems, are included.  
AUTH: BUCHLY W.D.  
CLSS: SRD  
CORP: SANDIA CORP. (ALBUQUERQUE, NM)  
DATE: 5908  
DESC: THEORY

DESC: Nuclear Weapon Effects flight systems airplanes structures L1  
DESC: Nuclear Weapon Environment Airblast height-of-burst HOB L1  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
EFFT: THERMAL ; AIR-BLAST  
REPN: SC 4187(TR)  
SUJO: 1-210-000 ; 2-613-100 ; 3-111-100  
TEMP: B1468  
TITL: HANDBOOK FOR DETERMINING SAFE AIRCRAFT ESCAPE FROM A NUCLEAR  
DETONATION (U), 98 P., (SRD)  
TNFF: 5820

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created: 12/27/1991 type: REPORT permanent

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INUM: 23885  
CLSS: U  
CONN: AT (11 1) 745  
CORP: ARMOUR RESEARCH FOUNDATION (CHICAGO, IL)  
DATE: 6008  
DESC: TABULAR  
DESC: test instruments nuclear radiation gamma L1  
DESC: test instruments x-ray effects L1  
REPN: ARF 1152 12  
SUJO: 4-330-000 ; 4-341-000  
TITL: IMPROVED NUCLEAR MEASURING PRINCIPLE (U), 41 P., (U)  
TREE: 653

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copy: 1 id: 56252-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 23888  
AUTH: MAHONEY J.J.  
CLSS: U  
CORP: ARMY CHEMICAL CORPS NUCLEAR DEFENSE LAB. (ARMY CHEMICAL CENTER, MD)  
DATE: 6104  
DESC: Nuclear Weapon Effects on animals thermal burns heating L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects structures field fortifications L1 PERSONNEL  
IN FOXHOLES  
REPN: ND L TR 4  
SUJO: 3-140-000 ; 3-313-100  
TITL: CONTRIBUTION OF SCATTERED RADIATION TO IMMEDIATE THERMAL CASUALTIES  
IN OPEN FOXHOLES (U), 42 P., (U)

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23888  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 23898  
AUTH: DOWAN M. JR.  
CLSS: U  
CORP: SANDIA CORP.  
DATE: 6104  
DESC: test instruments nuclear radiation fallout debris sampling  
collectors L1  
DESC: THEORY  
REPN: SCR 296  
SUJO: 4-345-000  
TITL: TECHNIQUE FOR OBTAINING PARTICLE ACTIVITY AND SIZE DISTRIBUTIONS  
(U), 12 P., (U)

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23898  
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copy: 1 id: 56265-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 24000  
AUTH: SPIELBERG D.  
CLSS: SRD  
CONN: DA 30 069 ORD 2627  
CORP: NUCLEAR DEVELOPMENT CORPORATION OF AMERICA (WHITE PLAINS, NY)  
DATE: 5910  
DESC: Cross Sections neutron L1  
DESC: Cross Sections gamma L1  
DESC: Nuclear Weapon Effects land transport armored vehicles L1 CREW  
DESC: TABULAR  
REPN: NDA 2117 1  
SUJO: 3-151-000 ; 9-820-000 ; 9-830-000  
TEMP: B1449  
TITL: DESIGN AND ANALYSIS OF A CREW-COMPARTMENT SHIELD FOR A  
RADIATION-RESISTANT COMBAT VEHICLE (U), 32 P., (SRD)  
TREE: 411 ; 412

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24000  
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copy: 1 id: 56339-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 24325  
CLSS: U  
CONN: W 7405 ENG 48  
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)  
DATE: 5905  
DESC: Nuclear Weapon Environment Ground Shock spallation L1  
DESC: Nuclear Weapon Environment Ground Shock seismic measurements L1  
DESC: Nuclear Weapon Test site layout L1  
DESC: Nuclear Weapon Environment fallout transfer L1  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture  
displacement particle velocity L1  
DESC: Nuclear Energy Peaceful Applications L1  
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence  
transitions L1  
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time  
spectrum duration L1  
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse  
L1  
REPN: UCRL 5675  
SHOT: RAINIER ; LOGAN ; EVANS ; BLANCA  
TSHO: UG-CONTAINED  
SUJO: 2-224-300 ; 2-620-300 ; 2-621-000 ; 2-622-000 ; 2-627-000 ;  
2-628-000 ; 2-629-000 ; 3-480-000 ; 4-855-000  
TITL: PROCEEDINGS OF THE SECOND PLOWSHARE SYMPOSIUM, MAY 13-15, 1959, SAN  
FRANCISCO, CA; PT. 1, PHENOMENOLOGY OF UNDERGROUND NUCLEAR  
EXPLOSIONS (U), 164 P., (U)

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24325

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copy: 1 id: 56596-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 24726  
ABS: Established military bases and metropolitan areas contain within  
and/or surrounding their boundaries large amounts of natural land  
areas which are unpaved. Much of such areas will require reclamation  
if radiologically contaminated as a result of nuclear weapon attack.  
A series of tests were therefore conducted to determine the  
influence of various soil-surface characteristics and repeated  
method applications on the effectiveness of some basic land  
reclamation methods. Four soil surfaces were tested: (1) a moist  
surface with green grass, (2) a tilled moist surface, and (4) a dry  
hard surface with withered vegetation. A synthetic fallout was  
produced and dispersed over the test surfaces and the performances  
in removing layers of soil of a scraper, motorized grader plus  
scraper, and remote-control bulldozer were evaluated.  
ABS: Soil surface characteristics, moisture content, and technique in the  
application of the methods influenced the effectiveness of the  
reclamation methods. Decontamination ratios of 1% or less were  
obtained through one or more applications by the scraper and the



grader plus scraper methods. Based upon the efficiency with which a method could achieve any effectiveness within the test range, scraping was the best method.

ADNO: 234004  
AUTH: LEE H. ; SARTOR J.D. ; VAN HORN W.H.  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)  
DATE: 5901  
DESC: SIMULATION ; EXPERIMENTAL  
DESC: Nuclear Warfare Postattack Recovery resources soil quality L1  
DESC: Nuclear Warfare Postattack Recovery decontamination L1 GRADING  
SCRAPING DOZING  
REPN: NRDL TR 337  
SUJO: 3-448-400 ; 3-448-900  
TITL: STONEMAN II TEST OF RECLAMATION PERFORMANCE; VOL. 4, PERFORMANCE  
CHARACTERISTICS OF LAND RECLAMATION PROCEDURES (U), 65 P., (U)

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24726

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copy: 1 id: 56923-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 24843  
AUTH: BROUGH T.G.  
CLSS: CFRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB.  
DATE: 6105  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology base surge L1  
SHOT: UMBRELLA ; WAHOO ; BAKER (XRD) ; WIGWAM ; BRITISH (52-10-03)  
TSHO: UW  
SUJO: 2-224-120  
TEMP: B3110  
TITL: PREDICTING EXTENT OF VISIBLE BASE SURGE (U), 85 P., (CFRD)

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24843

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copy: 1 id: 57002-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 24852  
AUTH: SPENCER M.T.  
CLSS: SRD  
CORP: DEFENSE NUCLEAR AGENCY FIELD COMMAND (ALBUQUERQUE, NM)  
DATE: 5909  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: EXPERIMENTAL TABULAR

DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear Weapon Environment Airblast static overpressure L1  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1

REPN: FC 09590643

SHOT: [REDACTED]

TSHO: SURFACE

SOCE: DAVY CROCKETT ; XW-54

SUJO: 1-110-000 ; 1-240-000 ; 1-710-000 ; 2-611-000

TEMP: A8797

TITL: PREDICTED BLAST, THERMAL, AND PROMPT RADIATION EFFECTS FOR THE DAVY  
CROCKETT (U), 20 P., (SRD)

TREE: 910 ; 920

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 26421

AUTH: WANG R.I.H. ; KERELAKES J.G.

CLSS: U

CORP: ARMY MEDICAL RESEARCH LAB. (FT. KNOX, KY)

DATE: 6012

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

REPN: AMRL 459

SUJO: 3-312-100

TITL: PROTECTION FROM RADIATION INDUCED LETHALITY BY CHEMICAL MIXTURE AND  
PARTIAL-BODY SHIELDING (U), 10 P., (U)

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26421

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copy: 1 id: 58107-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 26425

AUTH: PERKINS C.W. ; DENNEY J.M. ; DOWNING R.G.

CLSS: U

CORP: HUGHES AIRCRAFT CO. (CULVER CITY, CA)

DATE: 5909

DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1

EFFT: TREE

REPN: TM 622

SUJO: 3-221-000 ; 3-231-000

TITL: SECOND EXPERIMENT ON PULSED NEUTRON RADIATION EFFECTS (U), 17 P.,  
(U)

TREE: 390 ; 310

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26425

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copy: 1 id: 58111-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 26426

AUTH: PERKINS C.W. ; DENNEY J.M. ; DOWNING R.G.

CLSS: U

CORP: HUGHES AIRCRAFT CO. (CULVER CITY, CA)

DATE: 5910

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1

DESC: EXPERIMENTAL

EFFT: TREE

REPN: TM 623

SUJO: 3-221-000 ; 3-231-000

TITL: THIRD EXPERIMENT ON PULSED NEUTRON RADIATION EFFECTS (U), 24 P., (U)

TREE: 310 ; 390

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26426

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copy: 1 id: 58112-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 27283

CLSS: U

CORP: ATOMIC BOMB CASUALTY COMMISSION (HIROSHIMA-NAGASAKI, JAPAN)

DATE: 6100

DESC: BIBLIOGRAPHY

DESC: Nuclear Weapon Effects on animals ionizing radiation L1

REPN: TID 18968

SUJO: 3-312-000

TITL: BIBLIOGRAPHY OF PUBLICATIONS CONCERNING EFFECTS OF NUCLEAR  
EXPLOSIONS (U), 23 P., (U)

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27283

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copy: 1 id: 58790-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 28493  
AUTH: TAKESHITA K.  
CLSS: U  
CORP: KYUSHU UNIVERSITY, FACULTY OF MEDICINE, DEPT. OF RADIOLOGY (FUKUOKA)  
DATE: 6200  
DESC: Nuclear Weapon Environment Fallout beta intensities L1  
DESC: EXPERIMENTAL SUMMARY  
LA: JAPAN  
SHOT: NAGASAKI  
TSHO: LOW-ALT  
SUJO: 2-223-300  
SYMJ: JOURNAL OF RADIATION RESEARCH 3-3 177-181, SEPT. 1962  
TITL: MEASUREMENTS OF RADIOACTIVITY IN NISHIYAMA DISTRICT, NAGASAKI, JAPAN  
(U), 5 P., (U)

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copy: 1 id: 59777-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 28985  
ADNO: A076368  
AUTH: PLACAK O.R. ; SEAL M.S. ; MCBRIDE J.R. ; GILMORE R.A. ; ELDER R.L.  
CLSS: U  
CONN: AT (29 2) 162  
CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO., INC. (MERCURY, NV)  
DATE: 5908  
DESC: Nuclear Weapon Test safety L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
REPN: OTO 58 6  
SHOT: RUSHMORE ; CATRON ; JUNO ; CERES ; SANFORD ; HUMBOLDT ; GANYMEDE ;  
TITANIA ; VESTA ; RIO ARRIBA ; SAN JUAN ; SOCORRO ; WRANGELL ;  
OBERON ; COLFAX ; TAMALPAIS ; QUAY ; LEA ; NEPTUNE ; HAMILTON ;  
LOGAN ; DONA AN ; BLANCA ; SANTA FE ; MAZAMA ; EVANS ; CHAVES ; DE  
BACA ; OTERO ; BERNALILLO ; EDDY ; LUNA ; MERCURY ; VALENCIA ; MARS  
; MORA ; HIDALGO  
TSHO: UG-CONTAINED ; LOW-ALT  
SUJO: 2-223-100 ; 4-856-000  
TITL: OPERATION HARDTACK--PHASE II, OFF-SITE RADIOLOGICAL SAFETY REPORT,  
NEVADA TEST SITE, 1958 (U), 239 P., (U)

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copy: 1 id: 60107-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 29004

ADNO: A078823  
AUTH: MINKKINEN C. ; SCHLACKS H.P. ; GOEKE R.H. ; WEAVER C.L.  
CLSS: U  
CORP: NEVADA TEST ORGANIZATION (AEC), MERCURY OFF-SITE RADIOLOGICAL SAFETY  
ACTIVITIES (MERCURY, NV)  
DATE: 5904  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
DESC: Nuclear Weapon Test safety L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: EXPERIMENTAL  
REPN: OTO 58 3  
SUJO: 2-223-200 ; 2-223-420 ; 4-856-000  
TITL: OPERATION HARDTACK, PHASE I, TASK GROUP 7.5; RADIOLOGICAL SAFETY  
SUPPORT (U), 46 P., (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 29005  
ADNO: A078562  
AUTH: TELEGADAS K. ; NAGLER K.M.  
CLSS: U  
CORP: WEATHER BUREAU (SILVER SPRING, MD)  
DATE: 6005  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: Nuclear Weapon Environment fallout arrival time L1 CLOUD PASSAGE  
DESC: Nuclear Weapon Environment fallout transport L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology cloud shape size L1  
SHOT: BERNALILLO ; OTERO ; TITANIA ; BLANCA ; SANTA FE ; HUMBOLDT ; EVANS  
; CHAVES ; DE BACA ; SANFORD ; CERES ; JUNO ; CATRON ; WRANGELL ;  
RUSHMORE ; SOCORRO ; RIO ARRIBA ; VESTA ; DONA ANA ; HAMILTON ;  
NEPTUNE ; LEA ; QUAY ; TAMALPAIS ; COLFAX ; HIDALGO ; MORA ; MARS ;  
VALENCIA ; LUNA ; EDDY  
TSHO: SURFACE ; UG-CONTAINED  
SUJO: 2-223-420 ; 2-224-140 ; 2-224-200 ; 2-225-100 ; 2-225-300  
TITL: FALLOUT PATTERNS FROM OPERATION HARDTACK, PHASE II (U), 128 P., (U)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 30103  
AUTH: WIEDERHOLT G.M.

CLSS: U  
CORP: GE TEMPO (SANTA BARBARA, CA)  
DATE: 5911  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: SURVEY  
REPN: 59 TMP 66  
SUJO: 3-312-220  
TITL: NATURE AND EFFECTS OF WORLDWIDE FALLOUT FROM NUCLEAR WEAPONS (U), 66  
P., (U)

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30103  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 30651  
AUTH: WERTH G.C. ; HERBST R.F.  
CLSS: U  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)  
DATE: 6212  
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture  
displacement particle velocity  
DESC: nuclear test detection seismic detection  
DESC: NEW MEXICO TEXAS UTAH ARIZONA NEVADA CALIFORNIA ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Ground Shock scaling  
SHOT: RAINIER ; FISHER ; GNOME ; HARDHAT  
TSHO: UG-CONTAINED  
SUJO: 2-621-000 ; 2-624-000 ; 4-910-100  
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 68, NUMBER 5 (U), P  
1463, MARCH 1,1963  
TITL: COMPARISON OF AMPLITUDES OF SEISMIC WAVES FROM NUCLEAR EXPLOSIONS IN  
FOUR MEDIUMS (U), 13 P (U)

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30651  
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copy: 1 id: 61349-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 30683  
ADNO: 509983L  
AUTH: ROWE M.H. ; MORRIS W.E.  
CLSS: SRD  
CORP: NAVAL ORDNANCE LAB. (WHITE OAK, MD)  
DATE: 6009  
DESC: Nuclear weapon safety radiological L1  
DESC: SURVEY  
REPN: NAVWEPS 7306

SUJO: 4-838-100  
TEMP: C0684  
TITL: PLUTONIUM CONTAMINATION--PHENOMENOLOGY, CONSEQUENCES, ESTIMATED  
COSTS (U), 82 P., (SRD)

TNFF: 8859

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30683

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copy: 1 id: 61375-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 30816

AUTH: BELLMAN R. ; KALABA R. ; VASUDEVAN R.

CLSS: U

CONN: SD 79

CORP: RAND CORP. (SANTA MONICA, CA)

DATE: 6204

DESC: Radiation Transport neutron L1

DESC: THEORY

REPN: RM 3114 ARPA

SUJO: 9-650-000

TITL: INVARIANT IMBEDDING THEORY OF NEUTRON TRANSPORT--CORRELATION  
FUNCTIONS (U), 11 P., (U)

TREE: 970

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30816

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copy: 1 id: 61503-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 30832

AUTH: THOMPSON W.E. ; FERGUSON J.M. ; MATHER R.L.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)

DATE: 6011

DESC: THEORY EXPERIMENTAL

DESC: Radiation Transport neutron L1

REPN: NRDL TR 478

SUJO: 9-650-000

TITL: NEUTRON DISTRIBUTIONS NEAR AN AIR-SOIL BOUNDARY (U), 75 P., (U)

TREE: 970

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30832

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copy: 1 id: 61519-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 30833  
AUTH: YANG J.Y. ; GEVANTMAN L.H.  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)  
DATE: 6009  
DESC: Nuclear Physics Chemistry L1  
DESC: EXPERIMENTAL  
REPN: NRDL TR 471  
SUJO: 9-010-000  
TITL: TRITIUM BETA RADIATION-INDUCED ISOTOPIC EXCHANGE IN THE T2-H20  
SYSTEM (U), 20 P., (U)

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30833

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copy: 1 id: 61520-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 32155  
ADNO: 346862L  
AUTH: CULVER W.H.  
CLSS: U  
CONN: SD 50  
CORP: INSTITUTE FOR DEFENSE ANALYSES  
DATE: 6201  
DESC: THEORY SUMMARY  
DESC: Directed Energy Weapons Lasers Technology Beam generation energy  
supply L1  
REPN: IDA TN 62 3  
SUJO: 3-611-400  
TITL: REPORT ON THE IDA COMMITTEE ON OPTICAL MASERS RADIATION WEAPONS, I  
(U), 20 P., (U)

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32155

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copy: 1 id: 62809-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 32156  
ADNO: 346859  
AUTH: CULVER W.H.  
CLSS: U  
CORP: INSTITUTE FOR DEFENSE ANALYSES  
DATE: 6203  
DESC: Directed Energy Weapons Lasers Effects Metals L1  
DESC: THEORY EXPERIMENTAL SUMMARY  
REPN: IDA TN 62 13



SUJO: 3-613-100  
TITL: REPORT ON OPTICAL MASER RADIATION WEAPONS III (U), 5 P., (U)

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32156

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copy: 1 id: 62810-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 32164  
ADNO: 334852  
CLSS: U  
CONN: AF 30 (602) 2638  
CORP: WESTINGHOUSE DEFENSE CENTER (BALTIMORE, MD)  
DATE: 6211  
DESC: Directed Energy Weapons Lasers Deployed Systems Fixed land systems

L1

DESC: THEORY  
REPN: RADC TDR 62 622  
SUJO: 3-612-400  
TITL: INVESTIGATION OF OPTICS FOR A RADIATION WEAPON SYSTEM (U), 30 P.,  
(U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 32340  
ADNO: 356319L  
CLSS: C  
CONN: AF 30 (602) 2083  
CORP: NEW YORK UNIVERSITY (NEW YORK, NY)  
DATE: 6211  
DESC: Directed Energy Weapons Microwaves HPM Applications BMD anti-missile

L1

DESC: Directed Energy Weapons Microwaves HPM RDT&E Programs L1  
DESC: THEORY  
DESC: Directed Energy Weapons Microwaves HPM Effects Metals L1  
REPN: RADC TDR 61 286  
SUJO: 3-650-400 ; 3-653-100 ; 3-656-200  
TEMP: C1791 2  
TITL: RADIATION WEAPONS ANALYSIS STUDY GROUP, REPORT NO. 2 (U), 60 P., (C)

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32340

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copy: 1 id: 62992-1001 library: DOCUMENT price: \$.00  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 32341  
ADNO: 356582L  
CLSS: C  
CONN: AF 30 (602) 2083  
CORP: NEW YORK UNIVERSITY (NEW YORK, NY)  
DATE: 6210  
DESC: SUMMARY  
DESC: Directed Energy Weapons Microwaves HPM RDT&E Programs L1 COMET  
REPN: RADC TDR 62 544 V.1  
SUJO: 3-650-400  
TEMP: C1791 3 1  
TITL: RADIATION WEAPONS ANALYSIS STUDY GROUP, REPORT NO. 3, VOL. 1 SUMMARY  
AND RECOMMENDATIONS (U), 25 P., (C)

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32341  
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created: 12/27/1991 type: REPORT permanent  
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INUM: 32342  
ADNO: 356583L  
CLSS: C  
CONN: AF 30 (602) 2083  
CORP: NEW YORK UNIVERSITY (NEW YORK, NY)  
DATE: 6210  
DESC: Directed Energy Weapons Microwaves HPM Technology Beam generation  
energy supply L1  
DESC: Directed Energy Weapons Microwaves HPM Effects RVs L1 COMET  
DESC: THEORY TABULAR  
DESC: Directed Energy Weapons Lasers RDT&E Programs L1  
REPN: RADC TDR 62 544 V.2  
SUJO: 3-610-400 ; 3-651-400 ; 3-653-200  
TEMP: C1791 3 2  
TITL: RADIATION WEAPONS ANALYSIS STUDY GROUP, REPORT NO. 3, VOL. 2  
COMPLETE REPORT (U), 210 P., (C)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 32664  
AUTH: HARDY N. ; HERBST R.F. ; LEITH C.E. ; SCHULZ W.D.  
CLSS: SRD  
CONN: W 7405 ENG 48

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)  
DATE: 5901  
DESC: Fluid Mechanics hydrodynamics L1  
DESC: THEORY CODE  
REPN: UCRL 5429 T  
SHOT: CORONET II (2 D-HYDRO AND UCRL)  
SUJO: 9-410-000  
TEMP: B4524  
TITL: CORONET II, TWO DIMENSIONAL HYDRODYNAMICS AND RADIATION FLOW CODE  
FOR THE IBM 704 (U), 84 P., (SRD)

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32664

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created: 12/27/1991 type: REPORT permanent

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INUM: 33484  
ADNO: 241107L  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)  
DATE: 6000  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Cross Sections gamma L1 SHIP SHIELDING  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology base surge L1  
TSHO: UW  
SUJO: 2-223-100 ; 2-224-120 ; 9-830-000  
TITL: PROCEEDINGS OF THE TRIPARTITE SYMPOSIUM ON TECHNICAL STATUS OF  
RADIOLOGICAL DEFENSE IN THE FLEETS, VOL. 1, REVIEW AND LECTURES NO.  
103, 16 TO 20 MAY 1960 (U), 200 P., (U)

TREE: 411

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33484

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copy: 1 id: 64180-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 33801  
ADNO: 239075L  
AUTH: MCCALLA E.D. ; BENSON J.W.  
CLSS: U  
CORP: LOCKHEED AIRCRAFT CORP, GEORGIA DIVISION  
DATE: 6006  
DESC: Nuclear Weapon Effects electrical mechanical fluidic devices L1  
DESC: THEORY  
EFFT: TREE  
REPN: NR 91 ; NUCLEAR REPT 91  
SUJO: 3-234-000

TITL: ANALYTICAL ANALOG STUDY OF SOME RADIATION EFFECTS ON AN  
ELECTROHYDRAULIC SERVO TEST LOOP (U), 70 P., (U)

TREE: 350

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33801

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copy: 1 id: 64503-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 33847

ADNO: 409733L

AUTH: BELL J.E. ; HELMS R.L. ; PIZALER P.H. ; WALKER K.R.

CLSS: U

CONN: AF 29(601) 4743

CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA)

DATE: 6206

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit

network L1

DESC: TABULAR

EFFT: TREE

SUJO: 3-213-000 ; 3-219-000

TITL: THEORETICAL STUDY OF BURST INDUCED TRANSIENT RADIATION EFFECTS IN  
BASIC ELECTRONIC CIRCUITS (U), 175 P., (U)

TREE: 369 ; 367

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33847

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copy: 1 id: 64548-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 33860

ADNO: 320476L

CLSS: U

CONN: DA 36 039 SC 78171

CORP: EG AND G, INC. (BOSTON, MA)

DATE: 6006

DESC: TABULAR

DESC: test instruments electronic vulnerability TREE L1

SUJO: 4-372-000

TITL: STUDY OF RADIATION EFFECTS ON ELECTRONIC DEVICES, VOL. 1 (1 AUG 1958  
TO MAR 1960) (U) 285 P., (U)

TREE: 656

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33860

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copy: 1 id: 64561-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 33861  
ADNO: 320477L  
CLSS: U  
CONN: DA 36 039 SC 78171  
CORP: EG AND G, INC. (BOSTON, MA)  
DATE: 6006  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
DESC: THEORY  
EFFT: TREE  
SUJO: 3-221-000  
TITL: STUDY OF RADIATION EFFECTS ON ELECTRONIC DEVICES, VOL. 2 (1 AUG 1958  
TO 10 MARCH 1960) (U), 85 P., (U)  
TREE: 310

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33861  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 33862  
ADNO: 409846L  
AUTH: BELL J.E. ; LOVELAND R.D. ; LOWRY J.W. ; SLIVKA L.P.  
CLSS: U  
CONN: AF 29(601) 2538  
CORP: HUGHES AIRCRAFT CO. (CULVER CITY, CA)  
DATE: 6012  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1  
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1  
AMPLIFIERS  
DESC: THEORY EXPERIMENTAL  
EFFT: TREE  
SUJO: 3-213-000 ; 3-229-000  
TITL: THEORETICAL STUDY OF BURST INDUCED TRANSIENT RADIATION EFFECTS IN  
BASIC ELECTRONIC CIRCUITS (U), CA. 150 P., (U)  
TREE: 369 ; 305

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created: 12/27/1991 type: REPORT permanent  
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INUM: 33964

ADNO: 312143L  
CLSS: U  
CONN: DA 36 039 SC 78171  
CORP: EG AND G, INC. (BOSTON, MA)  
DATE: 5907  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 TUBES  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
REPN: EGG B1936  
SUJO: 3-221-000 ; 3-229-000  
TITL: STUDY OF RADIATION EFFECTS ON ELECTRONIC DEVICES; SECOND QUARTERLY  
REPORT, 1 FEBRUARY-30 JUNE 1959 (U), 366 P., (U)  
TREE: 310 ; 305

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copy: 1 id: 64663-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 34256  
AUTH: RICHARDS P.I.  
CLSS: U  
CONN: DA 19 020 ORD 5408  
CORP: TECHNICAL OPERATIONS, INC.  
DATE: 6205  
DESC: THEORY  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry  
general descriptions L1  
REPN: TO B 62 24  
TSHO: HI-ALT  
SUJO: 2-311-000  
TITL: SUMMARY REPORT ON INVESTIGATION OF RADIATION AND CHEMICAL  
CALCULATIONS (U), CA. 75 P., (U)

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34256

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 34383  
AUTH: PARKER L.W.  
CLSS: SRD  
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)  
DATE: 5912  
DESC: Nuclear Weapon Environment Visible Output rate L1  
REPN: UCRL 5796 T ; SR 160738

SUJO: 1-440-000  
TEMP: B4574  
TITL: TELLER LIGHT--EFFECTS OF ABSORPTION (U), 50 P., (SRD)

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34383  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 34384  
AUTH: WESLEY J.P. ; PARKER L.W.  
CLSS: SRD  
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)  
DATE: 5908  
DESC: SURVEY  
DESC: Nuclear Weapon Environment Visible Output rate L1  
DESC: Nuclear Weapon Environment Visible Output angular distribution L1  
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1  
REPN: UCRL 5645  
SUJO: 1-420-000 ; 1-430-000 ; 1-440-000  
TEMP: B4575  
TITL: SPACE TIME DEVELOPMENT OF TELLER LIGHT (U), 33 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: 34637  
ABS: This is the final report of a study contract concerning the establishment of an earth orbital vehicle (EOV) lethal and nonlethal self-defense measures against threats in the 1965-1980 time period. The study was conducted during the period from may 1961 to December 1962. (author)

ADNO: 341767  
CLSS: S  
CONN: AF 33(616) 8312  
CORP: NORTHROP SPACE LABS. (HAWTHORNE, CA)  
DATE: 6209  
DESC: Directed Energy Weapons Lasers Applications Satellite defense L1  
DESC: THEORY  
DESC: Directed Energy Weapons Applications Satellite defense L1  
DESC: Directed Energy Weapons Technology Beam generation energy supply L1  
REPN: NSL 62 204 V.2 PTS.2+3  
SUJO: 3-601-400 ; 3-606-110 ; 3-616-110  
TEMP: C4355  
TITL: EARTH-ORBITAL VEHICLE DEFENSE ENVIRONMENT STUDY; VOL. 2 PTS. 2 AND 3: PT. 2, RADIATION WEAPONS FOR THE DEFENSE OF EARTH-ORBITAL

VEHICLES; PT. 3, EARTH-ORBITAL VEHICLE MECHANICAL DEFENSE CONCEPTS  
(U), CA. 500 P., (S)

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34637

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copy: 1 id: 65312-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: 40112

ABS: This report presents the state of the art on the effects of nuclear radiation on adhesives. It summarizes the radiation effects information published up to 1961 for various adhesives based on organic materials. The information presented is largely for structural adhesives, since most radiation-effects studies were on these types. With a few exceptions, the radiation stability on nonstructure adhesives has not been determined.

ACCD: 91 03 07

ADNO: B968015

AUTH: Broadway N.J. ; Palinchak S.

CLSS: U

CONN: AF 33(616) 7375 ; AF 33(616) 6564

CORP: Battelle Memorial Institute, Radiation Effects Information Center  
(Columbus, OH)

DATE: 6103

DESC: EXPERIMENTAL SURVEY

DESC: Nuclear Weapon Effects materials plastics resins L1 EPOXY-PHENOLIC  
VINYL-PHENOLIC NYLON-PHENOLIC EPOXY EPOXY-THIOKOL NITRILE RUBBER  
NEOPRENE-PHENOLIC

EFFT: NEUTRON ; GAMMA ; TREE

REPN: REIC 17

SUJO: 3-244-000

TITL: Effect of Nuclear Radiation on Structural Adhesives (U), 91 P., (U)

TREE: 385

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40112

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 0902 1

AUTH: HILLENDahl R.W.

CLSS: C 1

CORP: NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 5906

DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1

DESC: test instruments thermal temperature L1

DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9

DESC: SURFACE OBSERVATION TROPOSPHERIC OBSERVATION ; SUMMARY



DESC: Nuclear weapon test yield L9  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1  
DESC: test instruments UV L1  
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1  
REPN: AFSWP 0902 1 ; NRDL TR 383 V1  
SHOT: KING ; ENCORE ; GRABLE ; CLIMAX ; BRAVO ; ROMEO ; UNION ; NECTAR ;  
WASP ; MOTH ; TESLA ; BEE ; WASP PRIME ; LACROSSE ; CHEROKEE ; ZUNI ;  
FLATHEAD ; DAKOTA ; APACHE ; NAVAJO ; TEWA ; HURON ; CACTUS ;  
BUTTERNUT ; KOA ; YELLOWWOOD ; MAGNOLIA ; ROSE ; TOBACCO ; WALNUT ;  
FIG ; DIXIE ; HARRY ; BRAVO ; HORNET ; ERIE ; KICKAPOO ; INCA ;  
MOHAWK ; BOLTZMANN ; PRISCILLA ; HOOD ; DIABLO ; STOKES ; SHASTA ;  
DOPPLER ; FRANKLIN ; SMOKY  
TSHO: LOW-ALT ; SURFACE  
SUJO: 1-210-000 ; 1-240-000 ; 1-320-000 ; 1-420-000 ; 1-520-000 ;  
2-110-000 ; 4-381-000 ; 4-384-000 ; 4-835-000 ; 4-841-000 ;  
5-200-000  
TEMP: 33149  
TITL: CHARACTERISTICS OF THE THERMAL RADIATION FROM NUCLEAR DETONATIONS,  
VOL. 1 (U), 98 P., (C)

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AFSWP 0902 1

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copy: 1 id: 72547-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 0902 2  
AUTH: HILLENDahl R.W.  
CLSS: C 1  
CORP: NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5906  
DESC: SUMMARY  
DESC: test instruments UV L1  
DESC: test instruments thermal temperature L1  
REPN: AFSWP 0902 2 ; NRDL TR 383 V2  
SUJO: 4-381-000 ; 4-384-000  
TEMP: 33149  
TITL: CHARACTERISTICS OF THE THERMAL RADIATION FROM NUCLEAR DETONATIONS,  
VOL. 2 (U), CA. 400 P., (SRD)

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AFSWP 0902 2

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 0902 3  
AUTH: HILLEDAHL R.W.  
CLSS: SRD  
CORP: NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5906  
DESC: SUMMARY THEORY  
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1  
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
REPN: AFSWP 0902 3 ; NRDL TR 383 V3  
SHOT: WASP ; WASP PRIME ; GRABLE ; ENCORE ; CLIMAX ; KING ; CHEROKEE ; HA  
; DIXIE ; JOHN ; YUCCA ; ORANGE ; TEAK ; OTHERS  
TSHO: LOW-ALT ; HI-ALT  
SUJO: 1-210-000 ; 1-320-000 ; 1-420-000 ; 1-520-000 ; 2-110-000 ;  
5-200-000  
TEMP: 33149 V 3  
TITL: CHARACTERISTICS OF THE THERMAL RADIATION FROM NUCLEAR DETONATIONS  
(U), VOLUME 3, TECHNICAL REPORT, 136 P, (SRD)

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AFSWP 0902 3

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 0938  
AUTH: PORZEL F.B.  
CLSS: C  
CORP: ARMOUR RESEARCH FOUNDATION (CHICAGO-IL)  
DATE: 6201  
DESC: THEORY  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature  
Density Particle Velocities L1 TEMPERATURE  
REPN: DASA 0938  
SUJO: 1-240-000 ; 2-130-000  
TEMP: 73084 ; 77319  
TITL: SURFACE EFFECTS ON BLAST LOADING, PART I, THERMAL RADIATION, INTERIM  
REPORT NO. II (U), 61 P, (C)

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AFSWP 0938

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 1119  
AUTH: FERRIS H.G.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)  
DATE: 5901  
DESC: test instruments thermal temperature  
DESC: THEORY  
REPN: AFSWP 1119 ; USNRDL TR 311  
SUJO: 4-384-000  
TITL: THEORETICAL ANALYSIS OF RADIOMETER PERFORMANCE (U), 18 P (U)

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AFSWP 1119

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 1133  
AUTH: JENKINS R.J. ; INN E.C.Y. ; PARKER W.J. ; RUDKIN R.L.  
CLSS: SRD  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5903  
DESC: Nuclear Weapon Environment Visible Output rate L1  
DESC: Nuclear Weapon Environment Infrared Output rate L1 NEAR 1R  
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1 NEAR  
1R  
DESC: Nuclear weapon test yield L1 P6  
DESC: RB-36 AIRCRAFT ; EXPERIMENTAL DATA  
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1 NEAR UV  
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1  
NEAR UV  
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1  
REPN: USNRDL TR 333 ; AFSWP 1133  
PROJ: 8.4  
SHOT: HA ; YUCCA ; ORANGE ; TEAK ; WASP PRIME  
TSHO: HI-ALT ; LOW-ALT  
SUJO: 1-320-000 ; 1-340-000 ; 1-420-000 ; 1-440-000 ; 1-520-000 ;  
1-540-000 ; 4-835-000  
TEMP: 39610 ; B1840  
TITL: SPECTRAL IRRADIANCE HISTORY OF THE THREE HIGH ALTITUDE SHOTS OF  
OPERATION HARDTACK, 24 P, (S)

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AFSWP 1133

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: AFSWP 1135

AUTH: MARTIN S.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)  
DATE: 5904  
DESC: Nuclear Weapon Effects on plants thermal  
DESC: Nuclear Weapon Effects materials wood paper cellulose films  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects materials fibers textiles  
REPN: AFSWP 1135 ; USNRDL TR 367  
SUJO: 3-242-000 ; 3-246-000 ; 3-333-000  
TITL: PREDICTING THE IGNITION SUSCEPTIBILITY OF TYPICAL KINDLING FUELS TO IGNITION BY THE THERMAL RADIATION FROM NUCLEAR DETONATIONS (U), 32 P (U)

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AFSWP 1135

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 57.1

ABS: The civil effects test operation exercise CEX-57.1 following Operation Plumbbob was carried out to obtain information on decontamination procedures that could be used as radiological countermeasures. The test was conducted on D + 1 and D + 2 days after shot coulomb C. Data were obtained on reclamation of land areas by scraping with a motorgrader, on firehosing and scrubbing a concrete-slab roof, and on fire-hosing a composition roof. In addition, some shielding data were obtained for a small building with 6-in. -thick concrete walls and roof. The conceptual nature of a radiological defense system and the role of decontamination or reclamation in such a system are discussed. Most of the report deals with methods for reducing the observed data to interpretive form because the data were taken within a large contaminated area.

ABS: The decontamination effectiveness in terms of the fraction of contamination remaining was computed to be (1) 0.2 to 0.3 for scraping with a motorgrader (1 pass with 1 1/2-in. Cut); (2) 0.3 to 0.4 for fire-hosing a concrete roof (1 pass, 50-psi nozzle pressure); and (3) 0.3 to 0.4 for fire-hosing a composition shingle roof. No significant additional amount of fallout was removed from the concrete roof when it was scrubbed after fire-hosing. These results are high compared to other data owing to the low levels of contamination and error in the measurements and data analysis methods. It is concluded that low levels of contamination at the Nevada Test Site could be utilized to advantage to obtain data on gamma-radiation properties, such as the effects of materials and source geometries on the attenuation of fission-product gamma rays.

ABS: However, higher levels of fallout, in terms of the fallout particle mass, are required to obtain useful information and training on decontamination techniques; therefore, the use of low levels of contamination to conduct studies in this area is not recommended.

AUTH: MILLER C.F.  
CLSS: U  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6009  
DESC: Nuclear Warfare Postattack Recovery decontamination L1  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
DESC: THEORY EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5 P  
17  
REPN: CEX 57.1  
SHOT: COULOMB C  
TSHO: SURFACE  
SUJO: 2-223-420 ; 2-225-100 ; 3-312-210 ; 3-448-900  
TITL: RADIOLOGICAL ASSESSMENT AND RECOVERY OF CONTAMINATED AREAS (U), 68  
P., (U)  
TNFF: 6220

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CEX 57.1

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copy: 1 id: 72714-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 58.2  
AUTH: DAVIS T.P. ; MILLER N.D. ; ELY T.S. ; BASSO J.A. ; PEARSE H.E.  
CLSS: U  
CORP: UNIVERSITY OF ROCHESTER (ROCHESTER-NEW YORK)  
DATE: 5905  
DESC: Nuclear Weapon Effects on animals thermal burns heating  
DESC: EXPERIMENTAL  
DESC: test instruments thermal temperature  
DESC: test instruments nuclear radiation beta electron beams  
REPN: CEX 58 2  
SUJO: 3-313-100 ; 4-344-000 ; 4-384-000  
TITL: SCATTERING OF THERMAL RADIATION INTO OPEN UNDERGROUND SHELTERS (U),  
26 P (U)

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CEX 58.2

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copy: 1 id: 72716-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 58.4.8  
AUTH: MACKALLOR J.A.  
CLSS: U  
CORP: GEOLOGICAL SURVEY  
DATE: 6201

DESC: EXPERIMENTAL  
DESC: Geology L5  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
REPN: CEX 58.4.8  
SUJO: 3-540-000 ; 6-700-000  
TITL: AERORADIOACTIVITY SURVEY AND AREAL GEOLOGY OF THE GEORGIA NUCLEAR  
LABORATORY AREA, NORTHERN GEORGIA (ARMS-I) (U), 36 P., (U)

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CEX 58.4.8

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copy: 1 id: 72719-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 58.8  
AUTH: WHITE C.S. ; BOWEN I.G. ; RICHMOND D.R. ; CORSBIE R.L.  
CLSS: U  
CORP: LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH  
(ALBUQUERQUE-NM)

DATE: 6101  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals blast shock L1  
DESC: Nuclear Weapon Effects on animals thermal L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation L1  
REPN: CEX 58.8  
SUJO: 3-311-000 ; 3-312-000 ; 3-313-000  
TITL: COMPARATIVE NUCLEAR EFFECTS OF BIOMEDICAL INTEREST (U), 81 P, (U)

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CEX 58.8

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copy: 1 id: 72720-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 59.1  
AUTH: BATTER J.F. ; KAPLAN A.L. ; CLARKE E.T.  
CLSS: U  
CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MASSACHUSETTS)  
DATE: 5905  
DESC: Simulation Facilities Techniques nuclear radiation fallout

simulation

DESC: Cross Sections gamma  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation  
REPN: CEX 59 1  
SUJO: 3-312-000 ; 4-242-000 ; 9-830-000  
TITL: EXPERIMENTAL EVALUATION OF THE RADIATION PROTECTION AFFORDED BY A  
LARGE MODERN CONCRETE OFFICE BUILDING (U), 61 P (U)

TREE: 411  
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CEX 59.1

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copy: 1 id: 72722-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: CEX 59.4 1

AUTH: MERIAN R.F. ; LACKEY J.G. ; HAND J.E.

CLSS: U

CORP: EG+G, INC.

DATE: 6007

DESC: SUMMARY

DESC: test instruments nuclear radiation gamma L1

REPN: CEX 59.4

SUJO: 4-341-000

TITL: AERIAL RADIOLOGICAL MONITORING SYSTEM; I, THEORETICAL ANALYSIS,  
DESIGN, AND OPERATION OF A REVISED SYSTEM (U), 54 P., (U)

TREE: 651

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CEX 59.4 1

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copy: 1 id: 72726-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: CEX 59.4.11

AUTH: SCHMIDT R.G.

CLSS: U

CORP: GEOLOGICAL SURVEY

DATE: 6103

DESC: EXPERIMENTAL

DESC: Geology L5

DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1

REPN: CEX 59.4.11

SUJO: 3-540-000 ; 6-700-000

TITL: AERORADIOACTIVITY SURVEY AND AREAL GEOLOGY OF THE HANFORD PLANT  
AREA, WASHINGTON AND OREGON (ARMS-I) (U), 25 P., (U)

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CEX 59.4.11

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copy: 1 id: 72729-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: CEX 59.4.14

AUTH: POPENOE P.

CLSS: U

CORP: GEOLOGICAL SURVEY

DATE: 6208  
DESC: Geology L5  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
DESC: EXPERIMENTAL  
REPN: CEX 59.4.14  
SUJO: 3-540-000 ; 6-700-000  
TITL: AERORADIOACTIVITY SURVEY AND AREAL GEOLOGY OF PARTS OF EAST-CENTRAL  
NEW YORK AND WEST-CENTRAL NEW ENGLAND (ARMS-I) (U), 39 P., (U)

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CEX 59.4.14

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 59.4.15  
AUTH: BATES R.G.  
CLSS: U  
CORP: GEOLOGICAL SURVEY  
DATE: 6103  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
DESC: Geology L5  
DESC: EXPERIMENTAL  
REPN: CEX 59.4.15  
SUJO: 3-540-000 ; 6-700-000  
TITL: AERORADIOACTIVITY SURVEY AND AREAL GEOLOGY OF THE OAK RIDGE NATIONAL  
LABORATORY AREA, TENNESSEE AND KENTUCKY (ARMS-I) (U), 42 P., (U)

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CEX 59.4.15

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copy: 1 id: 72732-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 59.4.16  
AUTH: BOOKS K.G.  
CLSS: U  
CORP: GEOLOGICAL SURVEY  
DATE: 6105  
DESC: EXPERIMENTAL  
DESC: Geology L5  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
REPN: CEX 59.4.16  
SUJO: 3-540-000 ; 6-700-000  
TITL: AERORADIOACTIVITY SURVEY AND RELATED SURFACE GEOLOGY OF PARTS OF THE  
LOS ANGELES REGION, CALIFORNIA (ARMS-I) (U), 25 P., (U)

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CEX 59.4.16

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: CEX 59.13  
AUTH: STRICKLER T.D. ; AUXIER J.A.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION  
DATE: 6004  
DESC: Cross Sections gamma L1  
DESC: EXPERIMENTAL  
REPN: CEX 59.13  
SUJO: 9-830-000  
TITL: EXPERIMENTAL EVALUATION OF THE RADIATION PROTECTION AFFORDED BY  
TYPICAL OAK RIDGE HOMES AGAINST DISTRIBUTED SOURCES (U), 51 P., (U)

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CEX 59.13

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: CEX 61.6.3  
AUTH: GUILLOU R.B.  
CLSS: U  
CORP: EG+G, INC. (SANTA BARBARA, CA.)  
DATE: 6111  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
DESC: EXPERIMENTAL  
DESC: Geology L5  
REPN: CEX 61.6.3  
SUJO: 3-540-000 ; 6-700-000  
TITL: CAMDEN--DELAWARE VALLEY AREA (ARMS-II) (U), 20 P., (U)

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CEX 61.6.3

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created: 12/27/1991 type: REPORT permanent  
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INUM: CEX 61.6.4  
AUTH: GUILLOU R.B.  
CLSS: U  
CORP: EG+G, INC. (SANTA BARBARA, CA.)  
DATE: 6112  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
DESC: Geology L5  
DESC: EXPERIMENTAL  
REPN: CEX 61.6.4

SUJO: 3-540-000 ; 6-700-000  
TITL: NORFOLK--PENINSULA AREA (ARMS-II) (U), 20 P., (U)

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CEX 61.6.4

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created: 12/27/1991 type: REPORT permanent

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INUM: CEX 62.01

AUTH: AUXIER J.A. ; SANDERS F.W. ; HAYWOOD F.F. ; THORNGATE J.H. ; CHEKA

J.S.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION (NEW YORK-NY), OAK RIDGE NATIONAL LAB (OAK  
RIDGE-TN)

DATE: 6201

DESC: Nuclear RDT&E Research Program Descriptions biomedical

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport

REPN: CEX 62.01

SUJO: 4-140-000 ; 4-150-000

TITL: TECHNICAL CONCEPT-OPERATION BREN (U), 20 P (U)

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CEX 62.01

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created: 12/27/1991 type: REPORT permanent

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INUM: CEX 62.02

AUTH: SANDERS F.W. ; HAYWOOD F.F. ; LUNDIN M.I. ; GILLEY L.W. ; CHEKA J.S.  
; WARD D.R.

CLSS: U

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN.)

DATE: 6204

DESC: Nuclear Weapon Test safety L1

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic  
sources L1

DESC: SUMMARY

REPN: CEX 62.02

SUJO: 4-241-000 ; 4-856-000

TITL: OPERATION PLAN AND HAZARDS REPORT--OPERATION BREN (U), 101 P., (U)

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CEX 62.02

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 62.6.1  
AUTH: GUILLOU R.B.  
CLSS: U  
CORP: EG+G, INC. (SANTA BARBARA, CA.)  
DATE: 6206  
DESC: Geology L5  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
DESC: EXPERIMENTAL  
REPN: CEX 62.6.1  
SUJO: 3-540-000 ; 6-700-000  
TITL: GALVESTON AREA (ARMS-II) (U), 21 P., (U)

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CEX 62.6.1

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 62.6.3  
AUTH: GUILLOU R.B.  
CLSS: U  
CORP: EG+G, INC. (SANTA BARBARA, CA.)  
DATE: 6212  
DESC: EXPERIMENTAL  
DESC: Nuclear Energy Power Nuclear Materials site radiation safety L1  
DESC: Geology L5  
REPN: CEX 62.6.3  
SUJO: 3-540-000 ; 6-700-000  
TITL: ARGUELLO AREA (ARMS-II) (U), 19 P., (U)

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CEX 62.6.3

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copy: 1 id: 72757-1001 library: DOCUMENT price: \$.00  
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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0516  
ADNO: 257578  
AUTH: ELLINGER F. ; STRIKE T.  
CLSS: U  
CORP: NAVY/MEDICAL RESEARCH INSTITUTE (BETHESDA-MD)  
DATE: 6011  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
DESC: SIMULATION (GAMMA SOURCE) ; EXPERIMENTAL  
REPN: DASA 516 ; R 5  
SHOT: MOLE ; ESS  
TSHO: LOW-ALT ; SURFACE  
SUJO: 3-312-100  
TITL: PHARMACOLOGICAL STUDIES ON IRRADIATED ANIMALS. X EFFECTS OF CELLFREE  
SPLEEN EXTRACT TREATMENT ON HEMATOPOIETIC TISSUES OF IRRADIATED

GUINEA PIGS (U), RESEARCH REPORT, 38 P (U) NUMBER 5, VOLUME 18 (U),  
39 P (U)

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DASA 0516

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copy: 1 id: 73986-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0528

ADNO: 339899L

AUTH: DOLAN P.J.

CLSS: SRD

CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)

DATE: 5908

DESC: Nuclear Weapon Environment radiation decay L1 2R 95 LA 140 SR 90 SR  
89 CS 137

DESC: THEORY SUMMARY TABULAR

DESC: Nuclear Weapon Environment fallout fractionation L1

REPN: DASA 0528

SHOT: ZUNI ; TEWA ; SUGAR

TSHO: LOW-ALT

SUJO: 2-223-400 ; 2-223-500

TEMP: 59514

TITL: THEORETICAL DOSE RATE DECAY CURVES FOR CONTAMINATION RESULTING FROM  
LAND SURFACE BURST NUCLEAR WEAPONS (U), TECHNICAL ANALYSIS REPORT,  
46 P, (SRD)

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DASA 0528

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0529

ABS: The High Altitude Sampling Program was initiated in 1954 to  
determine the spread of weapon produced fission products through the  
stratosphere. U-2 aircraft operated by the Strategic Air Command  
have been sampling stratospheric air at various altitudes along  
North-South paths from 66 deg North to 57 deg South at 70 deg West  
since 1957. Isotopes Incorporated, the principle contractor in this  
program, has analyzed over 1500 samples to date. Further  
metrological correlation has evolved a model of the stratosphere  
which accounts for the non-uniform deposition of fission products.  
The total stratospheric inventory of Sr/sup 90/ as of the Fall of  
1958 was found to be 1 megacurie. The half-residence time of polar  
injections and equatorial injections into the stratosphere was found  
to be six months and twelve months, respectively.

ABS: The major portion of the stratospheric debris moves into the  
troposphere through the midlatitude tropopause break. Predictions of

Sr/sup 90/ levels to be found in equilibrium bone have been made through 1972. (auth) AIR; AIRCRAFT; DISPERSIONS; EARTH; FALLOUT; FISSION PRODUCTS; LEVELS; MATHEMATICS; METEOROLOGY; NUCLEAR EXPLOSIONS; QUANTITATIVE ANALYSIS; QUANTITY RATIO; RADIOACTIVITY; SAMPLING; STANDARDS; STRATOSPHERE; STRONTIUM 90; ZONES

AUTH: STEBBINS A.K.  
CLSS: U  
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-D.C.)  
DATE: 5907  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear radiation transport  
DESC: Nuclear Weapon Environment Fallout isotope concentrations  
DESC: Nuclear Weapon Environment fallout transfer  
DESC: Nuclear Weapon Environment fallout transport  
DESC: SUMMARY  
REPN: DASA 0529  
SUJO: 2-223-100 ; 2-224-200 ; 2-224-300 ; 4-140-000  
TITL: HIGH ALTITUDE SAMPLING PROGRAM (U), 27 P (U)

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DASA 0529

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0531

ABS: The High Altitude Sampling Program was initiated by the Joint Chiefs of Staff in 1954 to determine the spread of weapon-produced fission products through the stratosphere. U-2 aircraft, operated by the Strategic Air Command, have been sampling stratospheric air at various altitudes along South to 70 deg North since 1957. Isotopes Incorporated, the principal contractor in this program, has analyzed over 2000 samples to date. Meteorological correlation has evolved a model of the stratosphere which accounts for the nonuniform deposition of fission products. The total stratospheric inventory of Sr/sup 90/ between November 1957 and November 1958 was found to be 0.9 megacurie. In spite of the large Russian injection in the fall of 1958, the Sr/sup 90/ stratospheric inventory for the period January 1959 to September 1959 averaged 0.7 megacurie.

ABS: The conclusion is reached that equatorial injections in the 1 to 5 megaton range have a stratospheric half-residence time of around 10 months, while injections in the polar and temperate regions have a stratospheric half-residence time of around 5 months. Larger yield tropical injections probably have residence times on the order of several years. A special study of W/sup 185/ injected during the HARDTACK operation has been made. Results show more details of the mode of stratospheric mixing and transport and support conclusions drawn from Sr/sup 90/ analysis. A definite seasonal effect upon the rate of departure of debris from the stratosphere is shown. The major portion of the stratospheric debris moves into the troposphere through the mid-latitude tropopause break. By Jan. 1, 1960, 87% of all material injected into the stratosphere will be on the ground.

ABS: Predictions of radiation dose from existing nuclear debris of biological significance are made. The total dose from all debris, even to infants born during peak activities, has probably been no more than 10% of MPC and by 1965 should be less than 1% of MPC.  
(auth) AIR; AIRCRAFT; ATMOSPHERE; BIOLOGY; FALLOUT; FISSION PRODUCTS; MEASURED VALUES; METEOROLOGY; MIXING; NUCLEAR EXPLOSIONS; OSCILLATIONS; PROJECT HARDTACK; RADIATION DOSES; RADIOACTIVITY; SAFETY; SAMPLING; STRATOSPHERE; STRONTIUM 90; TRANSPORT; TUNGSTEN  
185

AUTH: STEBBINS A.K.  
CLSS: U  
CORP: ISOTOPES INCORPORATED (WESTWOOD-NEW JERSEY)  
DATE: 5912  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear radiation transport  
DESC: test instruments nuclear radiation fallout debris sampling collectors  
DESC: SUMMARY EXPERIMENTAL  
DESC: Solid Mechanics  
DESC: Nuclear Weapon Environment fallout transfer  
DESC: Nuclear Weapon Environment Fallout isotope concentrations  
REPN: DASA 0531  
SUJO: 2-223-100 ; 2-224-300 ; 4-140-000 ; 4-345-000 ; 9-200-000  
TITL: THIRD ANNUAL HASP BRIEFING (U), 116 P (U)

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DASA 0531

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0532B

ABS: The results of the HASP program to determine the role played by the stratosphere in the world-wide distribution of radioactive fall-out from nuclear weapons tests are presented. The program has operated since the fall of 1957. The sampling network using U-2 aircraft collected 10exp8 scf of air from 57 deg S to 71 N up to 70,000 ft. Ashcan data are used for upward extrapolation. IPC Paper 1478 of near 100% efficiency is used. Stratospheric matter sampled is in the 0.01 micron range. Stratospheric inventories of Sr-90 were calculated for the periods Nov. 1957 to Dec. 1958, Jan. to Aug 1959, and Sept. to Nov. 1959 to be, respectively, 0.95, 0.81, and 0.7 megacuries. Concentrations were greater in the Northern Hemisphere by a factor of 2 to 3 than in the Southern Hemisphere.

ABS: The Sr-90 maximum occurs in the equatorial regions around 90,000 ft and slopes down to around 70,000 ft in the polar regions. Little fractionation is noted in stratospheric debris. Cesium-137 to strontium-90 ratios are 1.8 to 0.5. A semiempirical application of Gaussin diffusion is described which suggests that hot clouds injected in the equatorial stratosphere spread in the North-South direction with mixing coefficients near  $5 \times 10^{exp8}$  cmsq/sec. Vertical mixing is slower with coefficients of  $4 \times 10^{exp3}$  and  $2 \times$

10exp4 cmsq/sec suggested for tropical and polar regions, respectively. An Injection-Depletion model is offered which indicates that as much as 50% of the material Produced in 1-Mt ground-surface burst comes down in local fall-out.

ABS: Removal from the stratosphere occurs at different rates, depending on altitude and latitude of injection and season of the year. Effective half-residence times of 5, 10, and 20 months, respectively, for polar, low-equatorial and high-equatorial debris are suggested. Surface concentrations of Sr-90 are displayed as a function of latitude and time. The Northern Hemisphere carries three fourths of the burden. The maximum burden of Sr-90 is predicted to occur in 1961; however, concentrations in food have probably reached their maximum value. The radiation hazard from fall-out is summarized. Fallout has increased the dose man receives from the natural-radiation background by about 2%. (auth) DECADE; DIFFUSION; DISPERSIONS; DISTRIBUTION; FILTERS; FISSION PRODUCTS; INJECTION; LEVELS;

ABS: MIXING; NUCLEAR EXPLOSIONS; QUANTITY RATIO; RADIATION DOSES; RADIOACTIVITY; RESIDUES; SAMPLING; SEASONS; STANDARDS; STRATOSPHERE; STRONTIUM 90;

ADNO: 240642

AUTH: STEBBINS A.K.

CLSS: U

CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)

DATE: 6006

DESC: HASP GLOBAL OBSERVATIONS STRATOSPHERIC OBSERVATION ; EXPERIMENTAL THEORY

DESC: Nuclear Weapon Environment fallout transfer L1

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic internal L1

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

REPN: DASA 532 B

SUJO: 2-223-100 ; 2-224-300 ; 3-312-220

TITL: HIGH ALTITUDE SAMPLING PROGRAM-SPECIAL REPORT, TECHNICAL ANALYSIS REPORT (U),228 P (U)

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DASA 0532B

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 0615

ADNO: 511467

CLSS: SRD 1

CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)

DATE: 5908

DESC: Nuclear Weapon Environment fallout intensity contours patterns L5

DESC: Nuclear Weapon Effects structures aboveground buildings L9 MODERATE DAMAGE P14

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L9 P13

DESC: Nuclear Weapon Environment Airblast static overpressure

OVERPRESSURE.L1 BASE SURGE SURFACE WAVES

DESC: WATER SURFACE BURST HIGH YIELD ; THEORY  
DESC: Nuclear Weapon Effects on animals thermal burns heating L9 P 13  
DESC: Nuclear Weapon Effects flight systems airplanes L9 IMMOBILIZING  
DAMAGE P 14  
DESC: Nuclear Weapon Effects ship systems submarines L9 P 13  
REPN: DASA 0615  
SUJO: 2-225-100 ; 2-611-000 ; 3-111-000 ; 3-121-000 ; 3-251-000 ;  
3-312-100 ; 3-313-100  
TEMP: 73059  
TITL: SUMMARY REPORT OF DEEP WATER EFFECTS OF VERY HIGH YIELD WEAPONS (U),  
22 P, (SRD)

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DASA 0615

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1136  
AUTH: MARTIN S.B.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 5904  
DESC: Nuclear Weapon Effects materials wood paper cellulose films  
DESC: equation of state heat of vaporization thermal conductivity opacity  
DESC: THEORY  
REPN: DASA 1136 ; USNRDL TR 352  
SUJO: 3-246-000 ; 9-710-000  
TITL: SIMPLE RADIANT HEATING METHOD FOR DETERMINING THE THERMAL  
DIFFUSIVITY OF CELLULOSIC MATERIALS (U), 13 P (U)

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DASA 1136

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 1142  
AUTH: MARTIN S.B. ; RAMSTAD R.W.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 5905  
DESC: Nuclear Weapon Effects materials wood paper cellulose films  
DESC: EXPERIMENTAL  
REPN: USNRDL TR 353 ; DASA 1142 ; NS 081 001  
SUJO: 3-246-000  
TITL: TEMPERATURE PROFILES IN THERMALLY IRRADIATED CELLULOSE ACCOMPANYING



ITS SPONTANEOUS IGNITION (U), 9 P (U)

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DASA 1142

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copy: 1 id: 74028-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1148

ADNO: 227095

AUTH: DE LEHRY G.P. ; DERKSEN W.L. ; GARDE E.A. ; MONAHAN T.I. ; MIXTER

G.JR.

CLSS: U

CORP: NAVY/NAVAL APPLIED SCIENCE LABORATORY (BROOKLYN-NEW YORK)

DATE: 5905

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals thermal burns heating

REPN: TECH OBJ AW 7 ; DASA 1148

SUJO: 3-313-100

TITL: BURNS UNDER A HOT-WET UNIFORM SPACED FROM SKIN FOR NUCLEAR WEAPON  
PULSES OF THERMAL RADIATION, FINAL REPORT (U), 30 P (U)

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DASA 1148

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copy: 1 id: 74032-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 1163

AUTH: GIVVONS M.G. ; NICHOLS J.R.

CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 5912

DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9 P1

DESC: SIMULATION (FLASH LAMP) FIREBALL TRANSMISSIVITY ; EXPERIMENTAL

DESC: Nuclear RDT&E Research Program Descriptions thermal optical L5

DESC: Equation of State of Air L1 NTS VISIBLD AND NEAR 1R

REPN: DASA 1163

SUJO: 4-180-000 ; 4-841-000 ; 5-300-000

TITL: TRANSMISSION AND SCATTERING PROPERTIES OF A NEVADA DESERT ATMOSPHERE  
(U), 36 P, (U)

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DASA 1163

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copy: 1 id: 74046-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1173  
ADNO: 237555  
AUTH: CARTER J.A. ; MCGREEVY J.M.  
CLSS: U  
CORP: NAVY/MATERIAL LABORATORY (BROOKLYN-NY)  
DATE: 6001  
DESC: SUMMARY  
DESC: Simulation Facilities Techniques thermal optical L1  
REPN: AW 7 ; DASA 1173  
SUJO: 4-280-000  
TITL: RADIANT HEAT SOURCES EMPLOYED IN THERMAL RADIATION STUDIES (U) FINAL  
REPORT, CIRCA 50 P, (U)

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DASA 1173

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copy: 1 id: 74051-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 1179  
ADNO: 239955  
AUTH: DERKSEN W.L. ; MONAHAN T.I. ; DE LHERY G.P.  
CLSS: U  
CORP: NAVY/NAVAL APPLIED SCIENCE LABORATORY (BROOKLYN-NEW YORK)  
DATE: 6001  
DESC: Nuclear Weapon Effects on animals thermal burns heating  
DESC: test instruments biomedical simulants phantoms models  
DESC: EXPERIMENTAL  
REPN: TECH OBJ AW 7 ; DASA 1179  
SUJO: 3-313-100 ; 4-352-000  
TITL: TEMPERATURE HISTORIES ASSOCIATED WITH THERMAL RADIATION BURNS TO  
HUMAN SKIN, FINAL REPORT (U), 17 P (U)

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DASA 1179

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copy: 1 id: 74057-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1180  
AUTH: WOODWARD K.T. ; SCHRODT A.G. ; ANDERSON J.E. ; CLAYPOOL H.A. ;  
HARTGERING J.B.  
CLSS: U  
CORP: ARMY/WALTER REED ARMY MEDICAL CENTER (WASHINGTON-D.C.)  
DATE: 6000  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal  
DESC: EXPERIMENTAL  
REPN: DASA 1180  
SHOT: BRAVO

TSHO: SURFACE  
SUJO: 3-312-220  
TITL: DETERMINATION OF INTERNALLY DEPOSITED RADIOACTIVE ISOTOPES IN THE  
MARSHALLESE PEOPLE BY EXCRETION ANALYSIS (U), 22 P (U)

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DASA 1180

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copy: 1 id: 74058-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1186  
AUTH: MARTIN S.B. ; RAMSTAD R.W.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 6010

DESC: test instruments EM propagation atmospheric chemistry plasma  
ionospheric diagnostics L1

REPN: USNRDL TR 467 ; DASA 1186

SUJO: 4-325-000

TITL: COMPACT TWO-STAGE GAS CHROMATOGRAPH FOR FLASH PYROLYSIS STUDIES (U),  
14 P (U)

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DASA 1186

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1192  
AUTH: GIBBONS M.G. ; LAUGHRIDGE F.I. ; NICHOLS J.R. ; KRAUSE N.A.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 6008

DESC: NEVADA ; EXPERIMENTAL

DESC: Environmental Conditions at Nuclear Weapon Test Site weather

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air

REPN: USNRDL TR 461 ; DASA 1192

SUJO: 4-841-000 ; 5-200-000

TITL: TRANSMISSION AND SCATTERING PROPERTIES OF A NEVADA DESERT ATMOSPHERE  
UNDER CLOUDY CONDITIONS (U), 29 P (U)

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DASA 1192

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1196  
AUTH: SWANSON R.W.  
CLSS: U  
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-D.C.)  
DATE: 6011  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Nuclear Weapon Phenomenology cloud shape size  
DESC: BIBLIOGRAPHY SUMMARY  
REPN: DASA 1196  
SUJO: 2-223-200 ; 2-224-140 ; 4-140-000  
TITL: CONFERENCE ON DELAYED FALLOUT (U), 33 P (U)

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DASA 1196

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1202  
ADNO: 252021  
CLSS: U  
CONN: DA 49 146 XZ 022  
CORP: HUGHES AIR CRAFT COMPANY (CULVER CITY-CA)  
DATE: 6102  
DESC: SURVEY  
DESC: test instruments nuclear radiation neutron L1  
REPN: DASA 1202  
SUJO: 4-342-000  
TITL: STUDY OF NEUTRON-ELECTRON MULTIPLIERS, FINAL REPORT (U), 61 P (U)  
TREE: 652

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DASA 1202

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copy: 1 id: 74079-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1203  
ADNO: 260375  
AUTH: BAILY N.A. ; WIGGINS J.S.  
CLSS: U  
CONN: DA 49 146 XZ 016  
CORP: HUGHES AIRCRAFT COMPANY (CULVER CITY-CA)  
DATE: 6104  
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices  
sensors detectors L1

DESC: SUMMARY EXPERIMENTAL  
DESC: test instruments nuclear radiation L1  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
REPN: DASA 1203  
SUJO: 3-221-000 ; 3-224-000 ; 4-340-000  
TITL: PHYSICAL PARAMETERS AFFECTING PERFORMANCE OF P-N JUNCTION DETECTORS  
(U), FINALREPORT, 246 P (U)  
TREE: 364

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DASA 1203

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copy: 1 id: 74080-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1221  
CLSS: U  
CONN: NONR 3071 (00)  
CORP: SCIENCE COMMUNICATION INCORPORATED (WASHINGTON-D.C.)  
DATE: 6008  
DESC: Composition Chemistry Atmosphere Reaction Rates  
DESC: test instruments test hardware pressure stress  
DESC: test instruments EM propagation atmospheric chemistry direct probes  
DESC: test instruments nuclear radiation proton alpha heavy particle  
DESC: TABULAR  
DESC: General Atmospheric Properties  
REPN: DASA 1221  
SUJO: 4-311-000 ; 4-327-000 ; 4-343-000 ; 5-100-000 ; 5-400-000  
TITL: PROPERTIES OF THE UPPER ATMOSPHERE, ROCKETSONDE AND SATELLITE  
MEASUREMENTS OF PRESSURE, TEMPERATURE, DENSITY, AND COMPOSITION  
THROUGH EARLY 1960 (U), 30 P (U)

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DASA 1221

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1223  
ADNO: 323821L  
AUTH: DYCE R.B.  
CLSS: SFRD 1  
CONN: DA 49 146 XZ 054  
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)  
DATE: 6101  
DESC: Nuclear weapon test timing position firing data L1  
DESC: Nuclear Test Simulation Field Programs experiment design optical  
radiation experiments UV visible IR L1  
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic

Perturbations L1  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry  
general descriptions L1  
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1  
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow  
fluorescence L1  
DESC: SURFACE OBSERVATION TROPOSPHERIC OBSERVATION STRATOSPHERIC  
OBSERVATION LONG RANGE OBSERVATION ; SUMMARY EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology High-Altitude auroras L1  
DESC: Nuclear Weapon Effects EM Propagation reflection clutter fireball  
disturbed ionosphere L1  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1  
REPN: DASA 1223  
SHOT: ARGUS I ; ARGUS II ; ARGUS III  
TSHO: HI-ALT  
SUJO: 2-211-000 ; 2-214-000 ; 2-215-000 ; 2-311-000 ; 2-321-100 ;  
2-321-310 ; 2-510-000 ; 2-530-000 ; 4-820-600 ; 4-834-000  
TEMP: 23475  
TITL: PROJECT ARGUS, REPORT OF THIRD WORKING GROUP, 17 THROUGH 20 JANUARY  
1961 (U), 97 P (SFRD)

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DASA 1223

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copy: 1 id: 74089-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1224  
AUTH: MEYEROTT R.E. ; LANDSHOFF R.K.M. ; HILLENDahl R.W. ; MAGEE J.L.  
CLSS: SRD 1  
CORP: LOCKHEED MISSILES AND SPACE COMPANY (SUNNYVALE-CA) ; UNIVERSITY OF  
NOTRE DAME (SOUTH BEND-IN)  
DATE: 6011  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: test instruments thermal temperature L1  
DESC: SUMMARY EXPERIMENTAL  
DESC: Composition Chemistry Atmosphere Reaction Rates L1  
REPN: DASA 1224 ; LMSD 703048  
SUJO: 1-210-000 ; 1-240-000 ; 4-384-000 ; 5-400-000  
TEMP: 25084  
TITL: THERMAL RADIATION PHENOMENA ASSOCIATED WITH NUCLEAR EXPLOSIONS IN  
AIR (U), CIRCA 170 P (SRD)

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DASA 1224

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent  
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INUM: DASA 1255  
AUTH: BROIDO A. ; MARTIN S.B.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)  
DATE: 6110  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects materials wood paper cellulose films  
REPN: DASA 1255 ; USNRDL TR 536  
SUJO: 3-246-000  
TITL: EFFECT OF POTASSIUM BICARBONATE ON THE IGNITION OF CELLULOSE BY THERMAL RADIATION (U), 20 P (U)

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DASA 1255

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: DASA 1256  
AUTH: SCHLEIGER E.R. ; NICHOLS J.R. ; LAUGHRIDGE R.I.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)  
DATE: 6110  
DESC: LOS ANGELES CALIFORNIA ; EXPERIMENTAL  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air  
REPN: DASA 1256 ; USNRDL TR 554  
SUJO: 5-200-000  
TITL: TRANSMISSION AND SCATTERING PROPERTIES OF THE LOS ANGELES, CALIFORNIA ATMOSPHERE IN AUGUST AND SEPTEMBER 1960 (U), 91 P (U)

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DASA 1256

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copy: 1 id: 74113-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: DASA 1275  
ADNO: 273861  
CLSS: U  
CONN: DA 49 146 XZ 016  
CORP: HUGHES AIRCRAFT COMPANY (CULVER CITY-CALIFORNIA)  
DATE: 6202  
DESC: THEORY EXPERIMENTAL  
DESC: test instruments nuclear radiation gamma  
DESC: test instruments x-ray effects

REPN: DASA 1275  
SUJO: 4-330-000 ; 4-341-000  
TITL: RESEARCH STUDY OF SURFACE BARRIER DETECTORS, FINAL REPORT (U), 124 P  
(U)

TREE: 651

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DASA 1275

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copy: 1 id: 74133-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1300-1  
ADNO: 267616  
AUTH: FRIEND J.P. ; FEELY H.W. ; KREY P.W. ; SPAR J. ; WALTON A.  
CLSS: U  
CONN: DA 29 044 XZ 609  
CORP: ISOTOPES INCORPORATED (WESTWOOD-NJ)  
DATE: 6108  
DESC: HASP STRATOSPHERIC DEBRIS ; SUMMARY  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1

DESC: test instruments nuclear radiation fallout debris sampling  
collectors L1

REPN: DASA 1300 1  
SUJO: 4-140-000 ; 4-345-000  
TITL: HIGH ALTITUDE SAMPLING PROGRAM (U), VOLUME 1, HASP PURPOSE AND  
METHODS, FINAL REPORT, 216 P, (U)

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DASA 1300-1

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copy: 1 id: 74157-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1300-4  
ADNO: 267613  
AUTH: FRIEND J.P. ; FEELY H.W. ; KREY P.W. SPAR J. ; WALTON A.  
CLSS: U  
CONN: DA 29 044 XZ 609  
CORP: ISOTOPES INCORPORATED (WESTWOOD-NJ)  
DATE: 6108  
DESC: Nuclear Weapon Environment fallout transport  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1 SR 90 W  
185 CS 137 C 14

DESC: SUMMARY EXPERIMENTAL

DESC: Nuclear Weapon Environment fallout intensity contours patterns L1

DESC: Nuclear Weapon Environment fallout transfer L1



REPN: DASA 1300 4  
SUJO: 2-223-100 ; 2-224-200 ; 2-224-300 ; 2-225-100 ; 3-312-220  
TITL: HIGH ALTITUDE SAMPLING PROGRAM, VOLUME 4, THE APPLICATION OF HASP  
DATA (U), FINAL REPORT, 146 P (U)

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DASA 1300-4

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copy: 1 id: 74161-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1300-5  
ADNO: 267495  
AUTH: FRIEND J.P. ; FEELY H.W. ; KREY P.W. ; SPAR J. ; WALTON A.  
CLSS: U  
CONN: DA 29 044 XZ 609  
CORP: ISOTOPES INCORPORATED (WESTWOOD-NJ)  
DATE: 6108  
DESC: test instruments nuclear radiation fallout debris sampling  
collectors L5  
DESC: HASP STRATOSPHERIC OBSERVATION SR 90 RU 106 CS 137 CE 144 ; NEW  
JERSEY ; EXPERIMENTAL SUMMARY  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1 C 14  
TRITIUM TROPOSPHERIC OBSERVATION SURFACE OBSERVATION  
DESC: Nuclear Weapon Environment Fallout Particles chemical composition  
solubility L1  
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1  
REPN: DASA 1300 5  
SUJO: 2-222-100 ; 2-222-300 ; 2-223-100 ; 4-345-000  
TITL: HIGH ALTITUDE SAMPLING PROGRAM (U), VOLUME 5, SUPPLEMENTARY HASP  
STUDIES, 313 P, (U)

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DASA 1300-5

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copy: 1 id: 74162-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1311  
ADNO: 359894L  
AUTH: DUDZIAK W.F. ; EWALD A.T. ; KLEINECKE D.C. ; KLINGENBERG E.W. ;  
KOSTIGEN T.J.  
CLSS: U  
CCDE: TECH/OPS ; PUFF ; HANDE ; WEPH  
CONN: DA 49 146 XZ 038  
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)  
DATE: 6212  
DESC: Radiation Transport L5  
DESC: IONIZATION CODES ; SUMMARY CODE  
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry L1

DESC: Nuclear Weapon Effects EM Propagation absorption blackout L5  
DESC: Fluid Mechanics hydrodynamics L1 DESCRIPTION OF COMPUTER CODES  
REPN: RM 62 TMP 48 ; DASA 1311  
SUJO: 2-310-000 ; 2-321-100 ; 9-410-000 ; 9-600-000  
TEMP: 83461  
TITL: USEFUL HIGH-ALTITUDE NUCLEAR EFFECTS COMPUTER PROGRAMS (U), 52 P (C)

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DASA 1311

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1318  
ADNO: 289567  
AUTH: MEHLHORN H.A. ; CLARKE E.T. ; GOLD R. ; MCMATH R.  
CLSS: U  
CONN: DA 49 146 XZ 035  
CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MASSACHUSETTS)  
DATE: 6209  
DESC: Cross Sections gamma  
DESC: test instruments nuclear radiation gamma  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: THEORY EXPERIMENTAL  
DESC: Simulation Facilities Techniques nuclear radiation fallout

simulation

REPN: DASA 1318 ; TO B 62 13  
SUJO: 2-223-200 ; 4-242-000 ; 4-341-000 ; 9-830-000  
TITL: ATTENUATION OF POINT SOURCE GAMMA RADIATION IN SLABS, FINAL REPORT  
(U), 71 P (U)

TREE: 411

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DASA 1318

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copy: 1 id: 74185-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1327  
ADNO: 342411  
CLSS: U  
CORP: DASA INFORMATION AND ANALYSIS CENTER (SANTA BARBARA-CALIFORNIA)  
DATE: 6210  
DESC: SURVEY  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping  
DESC: Nuclear Weapon Effects space systems  
DESC: Nuclear Weapon Environment Induced Synchrotron Noise  
REPN: DASIAC SR 004 ; DASA 1327  
SHOT: STARFISH  
TSHO: HI-ALT

SUJO: 2-217-000 ; 2-420-000 ; 3-114-000  
TEMP: 81763  
TITL: PROCEEDINGS, THE ARTIFICIAL RADIATION BELT (U), 381 P (S)

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DASA 1327

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copy: 1 id: 74193-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1340  
AUTH: PARKER W.J.  
CLSS: U  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6212  
DESC: Nuclear Weapon Environment Visible Output rate L1  
DESC: Nuclear Weapon Environment Infrared Output rate L1 NEAR 1R  
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1  
DESC: DATA EXPERIMENTAL  
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1 NEAR UV  
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1 NEAR  
1R  
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1  
NEAR UV  
REPN: DASA 1340 ; USNRDL TR 615  
SHOT: BEE ; MOTH ; TESLA ; PRISCILLA  
TSHO: LOW-ALT  
SUJO: 1-320-000 ; 1-340-000 ; 1-420-000 ; 1-440-000 ; 1-520-000 ;  
1-540-000  
TITL: SPECTRAL DISTRIBUTION OF THE THERMAL RADIATION FROM THREE LOW YIELD  
NUCLEAR DETONATIONS (U), 31 P, (U)

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DASA 1340

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copy: 1 id: 74206-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1341  
ABS: The nature of certain critical lesions seen after exposure to air blast is described. The early lethality characterizing primary and tertiary blast damage is emphasized along with the seriousness of injuries caused by blastenergized debris. Tentative criteria are developed to the end that different levels of environmental variations caused by blast phenomena could be quantitatively related to various levels of biological response. Using the free-field scaling laws and a mathematical model whereby translational velocities can be computed for animate and inanimate objects, the criteria are applied to nuclear explosions ranging in yield from 1 kt to 100 Mt. Thus, it is possible to specify, as a function of

yield, the hazard ranges inside which various blast injuries might occur.

ABS: At these ranges the associated levels of initial nuclear and thermal radiation were computed to allow at least some assessment of the relative importance of all the major hazards from nuclear detonations. (auth) ATMOSPHERE; BIOLOGY; COMPUTERS; EFFICIENCY; ENVIRONMENT; FALLOUT; MATHEMATICS; NUCLEAR EXPLOSIONS; RADIATION EFFECTS; RADIATION INJURIES; STANDARDS; THERMAL RADIATION; VARIATIONS

AUTH: WHITE C.S. ; BOWEN I.G. ; RICHMOND D.R.

CLSS: U

CONN: DA 49 146 XZ 055

CORP: LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH  
(ALBUQUERQUE-NM)

DATE: 6211

DESC: Nuclear Weapon Effects on animals blast shock L1

DESC: SUMMARY

REPN: DASA 1341

SUJO: 3-311-000

TITL: ENVIRONMENTAL MEDICAL ASPECTS OF NUCLEAR BLAST (U), 49 P, (U)

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DASA 1341

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copy: 1 id: 74207-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1347

AUTH: GREENDALE A.E. ; LOVE D.L.

CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 6201

DESC: test instruments nuclear radiation fallout debris sampling  
collectors

DESC: EXPERIMENTAL

REPN: DASA 1347 ; USNRDL TR 607

SUJO: 4-345-000

TITL: RAPID RADIOCHEMICAL PROCEDURE FOR ANTIMONY AND ARSENIC (U), 16 P (U)

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DASA 1347

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1368 1

ADNO: 456185L

AUTH: SAXON D.S.

CLSS: U

CORP: E.H. PLESSET ASSOCIATES INCORPORATED (LOS ANGELES-CA)  
DATE: 6206  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1 EARLY  
TIME

DESC: Orbital Mechanics L1  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
DESC: THEORY  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1 EARLY TIME

REPN: PLESS 55148 ; DASA 1368 1  
SUJO: 1-710-000 ; 1-720-000 ; 2-223-200 ; 2-223-420 ; 9-100-000  
TITL: PROMPT GAMMA-RAYS (U), 53 P, (U)  
TREE: 910

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DASA 1368 1

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1368 2  
ADNO: 456183L  
AUTH: ALEXANDROV I.  
CLSS: U  
CORP: E.H. PLESSET ASSOCIATES INCORPORATED (LOS ANGELES-CA)  
DATE: 6210  
DESC: THEORY  
DESC: Orbital Mechanics L1  
DESC: Nuclear Weapon Environment radiation decay L1  
REPN: PLESS 55428 DRAFT ; DASA 1368 2  
SUJO: 2-223-400 ; 9-100-000  
TITL: THEORY OF FISSION AND FUSION NEUTRON SPECTRA (U), 24 P, (U)

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DASA 1368 2

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created: 12/27/1991 type: REPORT permanent

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INUM: DNA 1251 1  
ABS: The present volume, an indexed bibliography, is the first of the series of reports that will comprise the compilation and evaluation. The bibliography lists 206 reports which contain relevant information. It makes available a ready reference to the sources while the selection and the compilation of the data continues. The volume consists of an index to references by fallout characteristics, an index to references by authors names, and the List of References.

ADNO: 349123

AUTH: KAWAHARA F.K. ; LEE H.  
CLSS: C 1  
CONN: DA 18 108 AMC 188 (A)  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6106  
DESC: Nuclear Weapon Environment radiation decay L1  
DESC: Nuclear weapon test yield L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse  
DESC: Nuclear weapon test device physical operation construction geometry  
materials components L1  
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L1  
DESC: Nuclear Weapon Phenomenology UGT Debris in tunnels  
DESC: Nuclear Weapon Phenomenology cloud Motion L1  
DESC: Nuclear Weapon Phenomenology cloud shape size L1  
DESC: Nuclear Weapon Environment fallout Deposition L1  
DESC: Nuclear Weapon Environment Fallout Radioproperties L1  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Environmental Conditions at Nuclear Weapon Test Site  
DESC: Nuclear Weapon Environment Fallout Particles size distribution  
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1  
DESC: Nuclear Weapon Environment dust moisture injection atmosphere  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
DESC: ROANOKE KAWEA ; BIBLIOGRAPHY  
DESC: Nuclear weapon test timing position firing data L1  
DESC: Nuclear Weapon Environment Fallout Formation mechanics  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Nuclear Weapon Environment Fallout Particles L1  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear Weapon Environment Fallout beta intensities L1  
REPN: DASA 1251 V.1 ; USNRDL 469  
SHOT: TRINITY ; NAGASAKI (HIROSHIMA) ; WORLD WAR II ; (NAGASAKI) ; ABLE  
(CROSSROADS) ; BAKER (CROSSROADS) ; X-RAY ; YOKE ; ZEBRA ; ABLE  
(RANGER) ; BAKER (RANGER) ; EASY (RANGER) ; FOX (RANGER) ; BAKER 2  
(R) ; (GREENHOUSE) ; EASY (GREENHOUSE) ; GEORGE (GH) ; ITEM ; ABLE  
(BJ) ; BAKER (BJ) ; CHARLIE (BJ) ; DOG (BJ) ; EASY (BJ) ; SUGAR ;  
UNCLE ; ABLE (TS) ; BAKER (TS) ; CHARLIE (TS) ; DOG (TS) ; EASY (TS)  
; FOX (TS) ; GEORGE (TS) ; HOW ; MIKE ; KING ; ANNIE ; NANCY ; RUTH  
; DIXIE ; RAY ; BADGER ; SIMON ; ENCORE ; HARRY ; GRABLE ; CLIMAX ;  
ROMEO ; BRAVO ; UNION ; YANKEE ; NECTAR ; KOON ; WASP ; MOTH ; TESLA  
; TURK ; HORNET ; BEE ; ESS ; APPLE I ; WASP PRIME ; HA ; POST ; MET  
; APPLE II ; WIGWAM ; ZUCCHINI ; PROJECT 56 4 ; LACROSSE ; CHEROKEE  
; ZUNI ; YUMA ; ERIE ; SEMINOLE ; FLATHEAD ; BLACKFOOT ; KICKAPOO ;  
OSAGE ; INCA ; DAKOTA ; MOHAWK ; APACHE ; NAVAJO ; TEWA ; HURON  
TSHO: LOW ALT ; UNDERWATER ; SURFACE ; WATER SURFACE ; UNDERGROUND.  
SUJO: 1-240-000 ; 2-110-000 ; 2-221-000 ; 2-222-000 ; 2-222-300 ;  
2-222-400 ; 2-223-000 ; 2-223-100 ; 2-223-200 ; 2-223-300 ;  
2-223-400 ; 2-224-000 ; 2-224-140 ; 2-225-000 ; 2-225-100 ;  
2-231-000 ; 2-625-000 ; 2-627-000 ; 4-834-000 ; 4-835-000 ;  
4-836-000 ; 4-840-000 ; 4-841-000  
TEMP: 47163  
TITL: LOCAL FALLOUT FROM NUCLEAR TEST DETONATIONS; VOL. 1, INDEXED  
BIBLIOGRAPHY OF UNITED STATES AND BRITISH DOCUMENTS ON  
CHARACTERISTICS OF LOCAL FALLOUT (U), 230 P (C)

TNFF: 4860

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DNA 1251 1

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copy: 1 id: 75735-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: EMP 2-2-27

ABS: The gamma rays from a nuclear explosion in space Compton-scatter electrons near the surface of the device or in a surrounding material shield. The scattered electrons leave the surface and are accelerated back toward it by the positively charged matter. Provided they are asymmetrically distributed, the accelerating electrons radiate an electromagnetic signal. The electron motions are analyzed, the electromagnetic signal is estimated, and its detectability is discussed. For a typical nuclear explosion, the electromagnetic signal is independent of the yield and contains frequencies up to 10 to 100 megacycles per second and thus will penetrate the ionosphere.

ABS: Taking into account dispersion by the ambient interplanetary plasma (approx. equal 10 squared electrons/cc), the peak electric field strength at a distance R kilometers from the explosion is approx. equal 10 to the 4th, R to the -3/2 volts/meter. The pulse length is approx. equal 10 to the -10 R sec. If only background cosmic noise limits detectability of the signal, the maximum detectable range is about 10 to the 6th km.

AUTH: Karzas W.J. ; Latter R.

CLSS: U

CORP: Rand Corp. (Santa Monica, CA)

DATE: 6110

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP

DESC: nuclear test detection EMP earth current detection

DESC: THEORY

EMPF: 270 ; 221

REPN: RM 2849 AFT

TSHO: HI-ALT

SUJO: 2-510-000 ; 4-914-000

SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 2, Notes 22 through 48

(U)

TITL: Electromagnetic Radiation from a Nuclear Explosion in Space (U), 35

P(U)

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EMP 2-2-27

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copy: 1 id: 45973-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: FWE 198

AUTH: JANISCH D.B.B.  
CLSS: C  
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)  
DATE: 5907  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: test instruments nuclear radiation dosimeters radiacs L1  
REPN: FWE 198 ; AWRE T 6/58  
SHOT: BRITISH (57-09-25)  
TSHO: LOW-ALT  
SUJO: 2-223-200 ; 4-346-000  
TEMP: B8911 ; A8010  
TITL: USE OF RADIAC SURVEY METERS NOS. 2 AND 3 2N AERIAL SURVEYS OF  
RADIOACTIVE AREAS (U), 16 P., (C)  
TREE: 655

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FWE 198

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copy: 1 id: 82536-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 199  
AUTH: EVANS D.J.  
CLSS: C  
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)  
DATE: 5904  
DESC: Nuclear Weapon Effects on animals blast shock translation L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals thermal burns heating L1  
EFFT: THERMAL ; AIR-BLAST  
REPN: FWE 199 ; AWRE T 17/58  
SHOT: BRITISH (56-09-27)  
TSHO: LOW-ALT  
SUJO: 3-311-200 ; 3-313-100  
TEMP: B8912 ; A8062  
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL  
RADIATION FROM A NUCLEAR EXPLOSION; PT. 1, GENERAL INTRODUCTION (U),  
22 P., (C)

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FWE 199

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 200  
AUTH: GORDON D.  
CLSS: C  
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)



DATE: 5905  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects materials fibers textiles L1  
EFFT: THERMAL  
REPN: FWE 200 ; AWRE T 12/58  
SHOT: BRITISH (56-09-27)  
TSHO: LOW-ALT  
SUJO: 3-242-000  
TEMP: B8913 ; A8061  
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL  
RADIATION FROM A NUCLEAR EXPLOSION; PT. 2, EFFECTS ON TEXTILES (U),  
37 P., (C)

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FWE 200

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 201  
CLSS: C  
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)  
DATE: 5905  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects materials plastics resins L1  
DESC: Nuclear Weapon Effects materials coatings laminates L1  
EFFT: THERMAL  
REPN: FWE 201  
SHOT: BRITISH (56-09-27)  
TSHO: LOW-ALT  
SUJO: 3-244-000 ; 3-245-000  
TEMP: B8914 ; A8057  
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL  
RADIATION FROM A NUCLEAR EXPLOSION; PTS. 3, 4, AND 5, EFFECTS ON  
PLASTICS, RUBBERS, AND PAINTS (U), 64 P., (C)

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FWE 201

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 202  
AUTH: HAND N.E.  
CLSS: C  
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)  
DATE: 5905  
DESC: Nuclear Weapon Effects on animals thermal burns heating L1  
DESC: Nuclear Weapon Effects materials fibers textiles L1  
DESC: EXPERIMENTAL

EFFT: THERMAL  
REPN: FWE 202 ; AWRE T 11/58  
SHOT: BRITISH (56-09-27)  
SUJO: 3-242-000 ; 3-313-100  
TEMP: B8915 ; A8058  
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL  
RADIATION FROMA NUCLEAR EXPLOSION; PT. 6, EFFECTS ON SERVICE  
UNIFORMS (U), 24 P., (C)

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FWE 202

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 203  
AUTH: EVANS D.J.  
CLSS: C  
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)  
DATE: 5905  
DESC: Nuclear Weapon Effects supply containers L1  
DESC: Nuclear Weapon Effects materials fibers textiles L1  
DESC: EXPERIMENTAL  
EFFT: THERMAL ; AIR-BLAST  
REPN: FWE 203 ; AWRE T 29/58  
SHOT: BRITISH (56-09-27)  
TSHO: LOW-ALT  
SUJO: 3-172-000 ; 3-242-000  
TEMP: B8916 ; A8064  
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL  
RADIATION FROMA NUCLEAR EXPLOSION; PT. 7, EFFECTS ON PACKAGING  
MATERIALS (U), 20 P., (C)

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FWE 203

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copy: 1 id: 82541-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 204  
CLSS: C  
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, BERKS, UK)  
DATE: 5906  
DESC: Nuclear Weapon Effects flight systems airplanes structures L1  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects supply personnel protection equipment L1  
EFFT: THERMAL ; AIR-BLAST  
REPN: FWE 204 ; AWRE T 28/58  
SHOT: BRITISH (56-09-27)  
TSHO: LOW-ALT

SUJO: 3-111-100 ; 3-173-500  
TEMP: B8917 ; A8063  
TITL: OPERATION BUFFALO TARGET RESPONSE TESTS; EFFECTS OF THE THERMAL RADIATION FROM A NUCLEAR EXPLOSION; PT. 9 (A-C), EFFECTS ON CHEMICAL WARFARE EQUIPMENT, FLAME-THROWER FUEL, AND AIRCRAFT WINDSCREENS (U), 30 P., (C)

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FWE 204

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copy: 1 id: 82542-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 218  
AUTH: BRINKWORTH B.J.  
CLSS: C  
CORP: ROYAL AIRCRAFT ESTABLISHMENT (UK)  
DATE: 5906  
DESC: Nuclear Weapon Effects flight systems airplanes structures L1 SKIN TEMPERATURE RISE

EFFT: THERMAL

REPN: FWE 218

SUJO: 3-111-100

TEMP: B8931 ; A7860

TITL: SKIN TEMPERATURE RISE IN AN AIRCRAFT EXPOSED TO THERMAL RADIATION FROM A NUCLEAR EXPLOSION (U), 24 P., (C)

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FWE 218

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created: 12/27/1991 type: REPORT permanent

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INUM: FWE 236  
AUTH: BRINKWORTH B.J.  
CLSS: C  
CORP: ROYAL AIRCRAFT ESTABLISHMENT (FARNBOROUGH, ENGLAND)  
DATE: 5911  
DESC: THEORY  
DESC: Nuclear Weapon Effects flight systems airplanes structures L1  
DESC: Nuclear Weapon Environment Thermal Output source strength total intensity L1

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1

EFFT: THERMAL

REPN: RAE R MECH ENG 21 ; FWE 236

SUJO: 1-210-000 ; 3-111-100 ; 5-200-000

TEMP: B8946 ; A8006

TITL: SOME EFFECTS OF THE ENVIRONMENT ON THE POLAR DISTRIBUTION AROUND THE DELIVERING AIRCRAFT OF THERMAL RADIATION FROM A NUCLEAR EXPLOSION (U), 34 P., (C)

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FWE 236

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 240  
CLSS: U  
CORP: ADMIRALTY RESEARCH LAB. (TEDDINGTON MIDDLESEX, ENGLAND)  
DATE: 5906  
REPN: FWE 240  
TITL: ATMOSPHERIC TRANSMISSION OF THERMAL RADIATION (U), 24 P., (U)

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FWE 240

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 245  
AUTH: SMITH E.G.  
CLSS: C  
CORP: ARMY OPERATIONAL RESEARCH GROUP (UK)  
DATE: 6001  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1  
FLASHBLINDNESS  
DESC: SUMMARY  
REPN: FWE 245 ; AORG 18/58  
SUJO: 3-312-200  
TEMP: B8954 ; A7915  
TITL: TACTICAL IMPLICATIONS OF FLASH BLINDNESS AND CHORIORETINAL BURNS  
CAUSED BY NUCLEAR EXPLOSIONS; PT. 1, FLASH BLINDNESS (U), 42 P., (C)

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FWE 245

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 248  
AUTH: FRAME J.W.  
CLSS: SFRD  
CORP: ROYAL AIRCRAFT ESTABLISHMENT (FARNBOROUGH, ENGLAND)  
DATE: 6001  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects flight systems airplanes crew L1

REPN: FWE 248 ; RAE TECH MEMO ARM 1728  
SUJO: 3-111-500 ; 3-312-100  
TEMP: B8957 ; A8705  
TITL: INCAPACITATION OF AIRCREW BY IRRADIATION (U), 9 P., (SFRD)

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FWE 248

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copy: 1 id: 82586-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 250  
CLSS: S  
CORP: ESTABLISHMENTS OF THE UNITED KINGDOM ATOMIC ENERGY AUTHORITY AT  
HARWELL AND ALDERMASTON (ALDERMASTON, BERKS, UK)

DATE: 6001

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1  
INSIDE TANKS

DESC: Cross Sections gamma L1

DESC: Cross Sections neutron L1

DESC: THEORY

REPN: FWE 250

SUJO: 3-312-100 ; 9-820-000 ; 9-830-000

TEMP: B8959 ; A8792

TITL: PAPERS PRESENTED BY U.K. DELEGATES TO FORM BASIS FOR DISCUSSIONS ON  
NUCLEAR RADIATION EFFECTS ON ARMoured FIGHTING VEHICLES  
OCTOBER/NOVEMBER 1959 (U), 40 P., (S)

TREE: 411 ; 412

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FWE 250

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: FWE 252  
CLSS: C  
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON, ENGLAND)

DATE: 6007

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1

DESC: EXPERIMENTAL

EFFT: EMP

EMPF: 363

LA: UK

REPN: FWE 252

SUJO: 3-162-000

TEMP: B8961 ; A7917

TITL: EFFECTS OF ELECTROMAGNETIC RADIATION ON NUCLEAR WEAPON FUZING  
COMPONENTS (U), 10 P., (C)

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FWE 252  
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copy: 1 id: 82590-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: FWE 253  
AUTH: STEVENSON D.G.  
CLSS: U  
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON BERKS., ENGLAND)  
DATE: 6103  
REPN: FWE 253 ; AWRE 0 52/60  
TITL: RECOMMENDED REAGENTS FOR RADIOLOGICAL DECONTAMINATION (2ND EDITION)  
(U), 56 P., (U)

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FWE 253  
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copy: 1 id: 82591-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: ITR 1601  
AUTH: COOK T.B. ; KRAMM M.L. ; MILLER G.R.  
CLSS: SRD 1  
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)  
DATE: 5901  
DESC: EXTRA STRATOSPHERIC OBSERVATION LONG RANGE OBSERVATION STRATOSPHERIC  
OBSERVATION ; EXPERIMENTAL SUMMARY  
DESC: Nuclear weapon test timing position firing data L1  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: Nuclear Weapon Environment Airblast static overpressure  
OVERPRESSURE.L1  
DESC: Nuclear Test Simulation Field Programs experiment design neutron  
experiments L1 RF PROPAGATION  
DESC: Nuclear Test Simulation Field Programs experiment design gamma  
experiments L1 RF PROPAGATION  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment X-ray Output source strength total  
intensity L1  
DESC: Nuclear Test Simulation Field Programs experiment design x-ray  
experiments L1 RF PROPAGATION  
DESC: Nuclear Weapon Environment X-ray Output rate L1  
DESC: Nuclear Test Simulation Field Programs experiment design atmospheric  
ionization RF propagation noise L1 RF PROPAGATION  
DESC: Nuclear Test Simulation Field Programs experiment design engineering  
layout performance program documents L1 RF PROPAGATION

DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1  
DESC: Nuclear Test Simulation Field Programs experiment design  
high-altitude debris L1 RF PROPAGATION  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1  
DESC: Meteorology L1 WIND P 134  
DESC: test instruments nuclear radiation fallout debris sampling  
collectors L1  
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1 SURFACE  
OBSERVATION  
DESC: Nuclear weapon safety L1  
REPN: ITR 1601  
PROJ: PROGRAM 32  
SHOT: TEAK ; ORANGE  
TSHO: HI-ALT  
SUJO: 1-110-000 ; 1-120-000 ; 1-210-000 ; 1-240-000 ; 1-610-000 ;  
1-640-000 ; 1-710-000 ; 1-720-000 ; 1-740-000 ; 2-321-100 ;  
2-611-000 ; 4-140-000 ; 4-345-000 ; 4-820-000 ; 4-820-300 ;  
4-820-400 ; 4-820-500 ; 4-822-000 ; 4-823-000 ; 4-834-000 ;  
4-838-000 ; 5-500-000  
TEMP: 23477  
TITL: HIGH ALTITUDE MEASUREMENTS, OPERATION HARDTACK, PROGRAM 32 (U), 288  
P (SRD)  
TREE: 900  
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ITR 1601  
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copy: 1 id: 84278-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock  
  
INUM: ITR 1652  
AUTH: COSENZA C.J. ; BARNETT F.E.  
CLSS: SRD 1  
CORP: AIR FORCE/AIR DEVELOPMENT CENTER (WRIGHT-PATTERSON AFB OH)  
DATE: 5903  
DESC: Nuclear Test Simulation Field Programs experiment design x-ray  
experiments L1  
DESC: X-RAY THERMAL NUCLEAR RADIATION PERMANENT DAMAGE ; THEORY  
EXPERIMENTAL  
DESC: Nuclear Weapon Effects missile systems strategic L1  
DESC: Nuclear Test Simulation Field Programs experiment design neutron  
experiments L1  
REPN: ITR 1652  
PROJ: 8.6  
SHOT: TEAK ; ORANGE ; CACTUS  
TSHO: HI-ALT ; SURFACE  
SUJO: 3-112-100 ; 4-820-300 ; 4-820-500  
TEMP: 23482

TITL: VULNERABILITY OF MISSILE STRUCTURES TO NUCLEAR DETONATIONS,  
OPERATION HARDTACK, PROJECT 8.6 (U), 135 P (SRD)

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ITR 1652

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copy: 1 id: 84306-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

.endblock

INUM: ITR 1675

AUTH: REED J.W. ; BAKER D.J. ; JONES E.A. ; BJORKLAND J.A.

CLSS: SRD 1

CORP: AIR FORCE/CAMBRIDGE RESEARCH CENTER (BEDFORD-MA) ; COOK ELECTRIC  
COMPANY (CHICAGO-IL)

DATE: 5901

DESC: Nuclear Weapon Environment Thermal Output rate L1

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L9 P 13  
SCALING LAWS

DESC: EXPERIMENTAL

DESC: Nuclear Test Simulation Field Programs experiment design optical  
radiation experiments UV visible IR L5

DESC: Nuclear Test Simulation Field Programs experiment design thermal L5

DESC: Nuclear Weapon Environment Infrared Output rate L1

DESC: Nuclear Weapon Environment Visible Output rate L1

DESC: Nuclear Weapon Environment Ultraviolet Output source strength total  
intensity L1

DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1

DESC: Nuclear Weapon Environment Ultraviolet Output rate L1

DESC: Nuclear Weapon Environment Infrared Output source strength total  
intensity L1

DESC: Nuclear Weapon Environment Visible Output source strength total  
intensity L1

REPN: ITR 1675

PROJ: 8.8

SHOT: QUAY ; HAMILTON ; RIO ARRIBA ; SOCORRO ; WRANGELL ; RUSHMORE ;  
SANFORD ; DE BACA ; MAZAMA ; HUMBOLDT ; SANTA FE

TSHO: LOW-ALT

SUJO: 1-210-000 ; 1-240-000 ; 1-310-000 ; 1-340-000 ; 1-410-000 ;

1-440-000 ; 1-510-000 ; 1-540-000 ; 2-110-000 ; 4-820-600 ;

4-820-700

TEMP: 23551

TITL: THERMAL RADIATION FROM LOW-YIELD BURSTS, OPERATION HARDTACK, PROJECT  
8.8 (U), 40 P (SRD)

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ITR 1675

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copy: 1 id: 84316-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: ITR 1728  
AUTH: CLARK A. ; ANNIS M.  
CLSS: SRD  
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)  
DATE: 5901  
DESC: THEORY  
DESC: Nuclear Weapon Effects materials metals alloys L1  
EFFT: X-RAY  
REPN: ITR 1728 ; WT 1728 (ITR)  
SHOT: LOGAN  
TSHO: UG-CONTAINED  
SUJO: 3-243-000  
TEMP: A8100  
TTTL: ANALYSIS OF PASSIVE EXPERIMENT TO MEASURE X-RAY INDUCED IMPULSES;  
OPERATION HARDTACK PRELIMINARY TEST REPORT, PROJECT 25.2 (U), 24 P.,  
(SRD)

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ITR 1728

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created: 12/27/1991 type: REPORT permanent

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INUM: ITR 1816  
AUTH: NORDYKE M.D.  
CLSS: U  
CCDE: UNEC  
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)  
DATE: 6208  
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1 IN  
BASALT  
DESC: EXPERIMENTAL  
REPN: ITR 1816 ; WT 1816 (ITR)  
SHOT: DANNY BOY  
TSHO: UG-VENTED  
SUJO: 2-625-000  
TTTL: CRATER STUDIES; OPERATION NOUGAT, PROJECT DANNY BOY, PROJECT  
1.9/26.2 (U), 30 P., (U)

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ITR 1816

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created: 12/27/1991 type: REPORT permanent

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INUM: MAD391788  
ADNO: AD 391788  
AUTH: LAURINO R.K. ; SCHULTZE D.P. ; VAN DEN BERGHE G.  
CLSS: C  
CONN: NS 083 001 ; SF 011 05 08

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6003  
REPN: USNRDL TR 407 ; AW 5 C  
TEMP: 67105  
TITL: DECISION PROCEDURES FOR SHIPBOARD RADIOLOGICAL DEFENSE (U), CIRCA  
125, (U)

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MAD391788

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copy: 1 id: 85693-1001 library: DOCUMENT price: \$.00  
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created: 12/27/1991 type: REPORT permanent

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INUM: MAD512051L  
ADNO: 512051L  
AUTH: TOMNOVEC F.M.  
CLSS: SRD  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)  
DATE: 6001  
REPN: NRDL TR 393  
TEMP: 79060  
TITL: CONTRIBUTION OF S1 SUPER 28 (N,P) A1 SUPER 28 REACTION TO INDUCED A1  
SUPER 27 (N,GAMMA) A1 SUPER 28 RADIATION FIELDS FROM ATOMIC WEAPONS  
(U), 24 P., (SRD)

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MAD512051L

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created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0104  
AUTH: LOMBARD D.B. ; POWER D.V.  
CLSS: U  
CCDE: UNEL  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6203  
DESC: test instruments test hardware pressure stress L5  
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time  
spectrum duration L1  
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1  
DESC: test instruments test hardware velocity measurement L5  
DESC: CLOSE IN OBSERVATION FEW DATA ; EXPERIMENTAL  
REPN: PNE 0104  
SHOT: GNOME  
TSHO: UG-CONTAINED  
SUJO: 2-622-000 ; 2-623-000 ; 4-311-000 ; 4-315-000  
TITL: CLOSE-IN SHOCK STUDIES, (U), FINAL REPORT, 26 P (U)

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PNE 0104

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copy: 1 id: 88848-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0106  
AUTH: BENNETT W.P. ; SMITH B.L. ; ROBERTS D.W.  
CLSS: U  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6203  
DESC: test instruments thermal temperature L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: UG OBS ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence  
transitions L1  
REPN: PNE 0106  
SHOT: GNOME  
TSHO: UG-CONTAINED  
SUJO: 2-223-200 ; 2-629-000 ; 4-384-000  
TITL: GNOME POSTSHOT TEMPERATURE AND RADIATION STUDIES, (U), PROJECT  
GNOME, PRELIMINARY REPORT, 41 P (U)

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PNE 0106

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0113  
AUTH: LINDNER M.  
CLSS: U  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6202  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L9 P.25  
DESC: Orbital Mechanics L1  
REPN: PNE 0113  
SHOT: GNOME  
TSHO: UG-CONTAINED  
SUJO: 1-110-000 ; 2-223-200 ; 9-100-000  
TITL: RESONANCE NEUTRON ACTIVATION MEASUREMENTS, PROJECT GNOME, (U),  
PRELIMINARY REPORT

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PNE 0113

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent  
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INUM: PNE 0126  
CLSS: U  
CORP: WEATHER BUREAU/DEPARTMENT OF COMMERCE (LAS VEGAS-NV)  
DATE: 6204  
DESC: Nuclear Weapon Test safety L1  
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L1  
DESC: SUMMARY  
DESC: Nuclear Energy Peaceful Applications safety aspects L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5  
LONG RANGE OBSERVATION  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5  
INTERMEDIATE RANGE OBSERVATION  
REPN: PNE 0126  
SHOT: GNOME  
TSHO: UG-CONTAINED  
SUJO: 2-223-200 ; 2-225-100 ; 3-480-500 ; 4-841-000 ; 4-856-000  
TITL: WEATHER AND SURFACE RADIATION PREDICTION ACTIVITIES (U), FINAL  
REPORT FOR PROJECT GNOME, 20 P, (U)

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PNE 0126  
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copy: 1 id: 88863-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: PNE 0132  
ADNO: PNE 132 F  
AUTH: PLACAK O.R.  
CLSS: U  
CORP: PUBLIC HEALTH SERVICE (LAS VEGAS-NV)  
DATE: 6100  
DESC: Nuclear Weapon Test safety L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: Nuclear Energy Peaceful Applications safety aspects L1  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Nuclear Weapon Effects supply food water L1 MILK  
DESC: Nuclear Energy Peaceful Applications radiation problems L1  
DESC: Nuclear Weapon Environment Fallout beta intensities L1  
DESC: INTERMEDIATE RANGE LONG RANGE ; TABULAR  
REPN: PNE 0132  
SHOT: GNOME  
TSHO: UG CONTAINED  
SUJO: 2-223-100 ; 2-223-200 ; 2-223-300 ; 3-171-000 ; 3-480-400 ;  
3-480-500 ; 4-856-000  
TITL: OFF-SITE RADIOLOGICAL SAFETY REPORT (U), PROJECT GNOME, CARLSBAD,  
NEW MEXICO, 100 P (U)

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PNE 0132  
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copy: 1 id: 88869-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0133  
CLSS: U  
CORP: REYNOLDS ELECTRIC AND ENGINEERING CO., INC.  
DATE: 6112  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: PLOWSHARE ; EXPERIMENTAL  
REPN: PNE 0133  
SHOT: GNOME  
TSHO: UG-CONTAINED  
SUJO: 2-223-200 ; 3-312-220  
TITL: ON-SITE RADIOLOGICAL SAFETY REPORT; PROJECT GNOME (U), 28 P., (U)

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PNE 0133

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copy: 1 id: 88870-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0200  
ADNO: A076367  
AUTH: PLACAK O.R.  
CLSS: U  
CORP: PUBLIC HEALTH SERVICE, OFF-SITE RADIOLOGICAL SAFETY ORGANIZATION  
DATE: 6212  
DESC: PLOWSHARE ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment fallout arrival time L1 CLOUD PASSAGE  
DESC: Nuclear Weapon Environment fallout transport L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: Nuclear Weapon Environment Fallout beta intensities L1  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
REPN: PNE 200F  
SHOT: SEDAN  
TSHO: SURFACE  
SUJO: 2-223-100 ; 2-223-200 ; 2-223-300 ; 2-223-420 ; 2-224-200 ;  
2-225-300  
TITL: PLOWSHARE PROGRAM; FINAL OFF-SITE REPORT OF THE PROJECT SEDAN EVENT  
JULY 6, 1962 (U), 85 P., (U)

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PNE 0200

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created: 12/27/1991 type: REPORT permanent  
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INUM: PNE 0203  
CLSS: U  
CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO INC (MERCURY NEV)  
DATE: 6210  
REPN: PNE 0203  
TITL: SEDAN EVENT, ON-SITE RADIOLOGICAL SAFETY REPORT (U), 62 P., (U)  
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PNE 0203  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: PNE 0235  
AUTH: WARNER S.E.  
CLSS: U  
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6212  
DESC: Environmental Conditions at Nuclear Weapon Test Site geology L5  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time  
spectrum duration L1  
DESC: Nuclear Test Simulation Field Programs experiment design ground  
shock L5  
REPN: PNE 235 F  
SHOT: SEDAN  
TSHO: UG-VENTED  
SUJO: 2-622-000 ; 4-820-100 ; 4-842-000  
TITL: SEISMIC VELOCITY STUDY (U), PROJECT SEDAN, PROJECT 2.05, 48 P (U)  
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PNE 0235  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: POIR 2013  
AUTH: KINCH J.W. ; JENKINS R.W. JR.  
CLSS: SRD 1  
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)  
DATE: 6209  
REPN: POIR 2013  
TEMP: 29130  
TITL: GAMMA RADIATION MEASUREMENTS, OPERATION DOMINIC, FISH BOWL SERIES,  
PROJECT OFFICERS INTERIM REPORT, PROJECT 2.2 (U), 30 P (SRD)  
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POIR 2013

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copy: 1 id: 89169-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2209  
AUTH: CALDWELL P.A. ; WIMENITZ F.N. ; LACKEY J.G.  
CLSS: SRD 1  
CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.) ; E G AND G  
INCORPORATED (SANTA BARBARA-CA)  
DATE: 6208  
DESC: Nuclear Test Simulation Field Programs experiment design gamma  
experiments L1  
DESC: CLOSE-IN OBSERVATION INTERMEDIATE OBSERVATION ; EXPERIMENTAL  
REPN: POIR 2209  
PROJ: 2.1  
SHOT: SMALL BOY  
TSHO: SURFACE  
SUJO: 4-820-400  
TEMP: 27549  
TITL: INITIAL RADIATION MEASUREMENTS, OPERATION SUN BEAM, SHOT SMALL BOY,  
PRELIMINARY REPORT, PROJECT 2.1 (U), 54 P (SRD)  
TREE: 641

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POIR 2209

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copy: 1 id: 89229-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2210  
AUTH: KRONENBERG S.  
CLSS: SRD 1  
CORP: ARMY/SIGNAL RESEARCH AND DEVELOPMENT LABORATORY (FORT MONMOUTH-NJ)  
DATE: 6210  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1  
DESC: Nuclear Test Simulation Field Programs experiment design neutron  
experiments L5  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: CLOSE-IN OBSERVATION ; EXPERIMENTAL  
DESC: test instruments nuclear radiation neutron L9 APPENDIX  
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1  
REPN: POIR 2210  
PROJ: 2.2  
SHOT: SMALL BOY  
TSHO: SURFACE  
SUJO: 1-110-000 ; 1-120-000 ; 1-140-000 ; 4-342-000 ; 4-820-300  
TEMP: 29203  
TITL: NEUTRON DOSE RATE MEASUREMENT, OPERATION SUN BEAM, SHOT SMALL BOY,

PROJECT OFFICERS INTERIM REPORT, PROJECT 2.2 (U), 98 P (SRD)

TREE: 920

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POIR 2210

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2215

AUTH: LARIVIERE P.D. ; SARTOR J.D. ; LARSON K.H.

CLSS: SRD 1

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA) ;  
UNIVERSITY OF CALIFORNIA (LOS ANGELES-CA)

DATE: 6209

REPN: POIR 2215

TEMP: 29126

TITL: FALLOUT COLLECTION AND GROSS SAMPLE ANALYSIS, OPERATION SUN BEAM,  
SHOT SMALL BOY, PROJECT OFFICERS INTERIM REPORT, PROJECT 2.9 (U), 87  
P (SRD)

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POIR 2215

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copy: 1 id: 89231-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2217

AUTH: LARIVIERE P.D. ; LEE H. ; LARSON K.H.

CLSS: CFRD 1

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA) ;  
UNIVERSITY OF CALIFORNIA (LOS ANGELES-CA)

DATE: 6209

REPN: POIR 2217

TEMP: 29006

TITL: IONIZATION RATE MEASUREMENTS, OPERATION SUN BEAM, SHOT SMALL BOY,  
PROJECT OFFICERS INTERIM REPORT, PROJECT 2.11 (U), 30 P (CFRD)

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POIR 2217

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2220

AUTH: SHUMWAY B.W. ; TOMOEDA S. ; BUSER W.H. ; FRANK A.L. ; MILLER W.G. ;  
TAYLOR R.A. ; JANAKOS N. ; FONG F.T. ; BRANDENBURG K.W.

CLSS: O



CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6208  
DESC: Nuclear Test Simulation Field Programs experiment design gamma  
experiments L5  
DESC: EXPERIMENTAL  
DESC: Cross Sections gamma L1  
REPN: POIR 2220  
PROJ: 2.14  
SHOT: SMALL BOY  
TSHO: SURFACE  
SUJO: 4-820-400 ; 9-830-000  
TITL: SHIELDING EFFECTIVENESS OF COMPARTMENTED STRUCTURES IN A FALLOUT  
FIELD, OPERATION SUN BEAM, SHOT SMALL BOY, PRELIMINARY REPORT,  
PROJECT 2.14 (U), 39 P (OUO)

TREE: 411

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POIR 2220

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2235  
AUTH: JONES M.S. JR. ; PROUTY T.P. ; WHARTON C.B. ; KATZ J.E.  
CLSS: SRD 1  
CORP: MHD RESEARCH INCORPORATED (NEWPORT BEACH-CA) ; LAWRENCE RADIATION  
LABORATORY (LIVERMORE-CA)  
DATE: 6211  
REPN: POIR 2235  
TEMP: 29420  
TITL: AIR CONDUCTIVITY MEASUREMENTS, OPERATION SUN BEAM, SHOT SMALL BOY,  
PROJECT OFFICERS INTERIM REPORT, PROJECT 6.11 (U), 82 P (SRD)

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POIR 2235

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2238  
AUTH: HENDERSON W.D. ; BUIES R.E. ; ROBB R.E.  
CLSS: SFRD 1  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM) ; GENERAL  
ELECTRIC COMPANY/RADIATION EFFECTS OPER (SYRACUSE-NY)  
DATE: 6211  
REPN: POIR 2238  
TEMP: 29378  
TITL: PRAGMATIC INSTRUMENTAL MEASUREMENTS, OPERATION SUN BEAM, SHOT SMALL  
BOY, PROJECT OFFICERS INTERIM REPORT, PROJECT 7.1, SUBPROJECTS  
7.1.1, 7.1.2, 7.1.3 (U), 119 P (SFRD)

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POIR 2238

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copy: 1 id: 89249-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2239

AUTH: GLENN D.C.

CLSS: SRD 1

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM) ; NORTHROP CORPORATION (NEWBURY PARK-CA)

DATE: 6211

REPN: POIR 2239

TEMP: 29413

TITL: TRANSIENT RADIATION EFFECTS MEASUREMENTS GUIDANCE SYSTEM CIRCUITS, OPERATION SUN BEAM, SHOT SMALL BOY, PROJECT OFFICERS INTERIM REPORT, PROJECT 7.1.4 (U), 122 P (SRD)

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POIR 2239

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copy: 1 id: 89250-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: POIR 2240

AUTH: RIGGLE W.L. ; HENRY R.L. ; MORRIS R.E. ; STOKES J.R.

CLSS: SRD 1

CORP: ARMY/ORDNANCE TANK-AUTOMOTIVE COMMAND (DETROIT ARSENAL-MI) ; GD/FORT WORTH DIVISION (FORT WORTH-TX)

DATE: 6208

DESC: Nuclear Test Simulation Field Programs experiment design surface vehicles structures) L5

DESC: Cross Sections gamma L1

DESC: Cross Sections neutron L1

DESC: GAMMA NEUTRON BLAST AND SHOCK ; EXPERIMENTAL

DESC: blast shock Protection L1

DESC: Nuclear Weapon Effects land transport armored vehicles L1

REPN: POIR 2240

PROJ: 7.2

SHOT: SMALL BOY

TSHO: SURFACE

SUJO: 3-151-000 ; 4-829-200 ; 9-820-000 ; 9-830-000 ; 9-860-000

TEMP: 27617

TITL: EXPERIMENTAL CONFIRMATION OF THEORETICAL DEVELOPMENT ON RADIOLOGICAL ARMOR, OPERATION SUN BEAM, SHOT SMALL BOY, PRELIMINARY REPORT, PROJECT 7.2 (U), 66 P (SRD)

TREE: 411 ; 412

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POIR 2240

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copy: 1 id: 89251-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2266  
AUTH: BOUTON E.H. ; HARDIN L.M. ; MORGENTHAU M. ; WILSEY E.F. ; POWELL  
W.G. ; CONWAYB.J.  
CLSS: SRD 1  
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)  
DATE: 6209  
REPN: POIR 2266  
TEMP: 29129  
TITL: RADIOLOGICAL SURVEYS, OPERATION SUN BEAM, SHOT LITTLE FELLER I, II,  
JOHNIE BOY, AND SMALL BOY, PROJECT OFFICERS INTERIM REPORT, PROJECT  
2.8 (U), 127 P (SRD)

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POIR 2266

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copy: 1 id: 89260-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2269  
AUTH: SCHUMCHYK M.J. ; MALONEY J.C. ; SMITH R.J.  
CLSS: C  
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)  
DATE: 6208  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity  
REPN: POIR 2269  
SHOT: LITTLE FELLER-II  
TSHO: SURFACE  
SUJO: 4-821-000  
TEMP: 63016  
TITL: TRANSIT RADIATION DOSE RATE, OPERATION SUN BEAM, SHOT JOHNIE BOY AND  
LITTLE FELLER II, PRELIMINARY REPORT, PROJECT 2.20 (U), 22 P (C)

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POIR 2269

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created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2270  
AUTH: MOBLEY T.S. ; DAMEWOOD L.A. ; PENIKAS V.T.  
CLSS: SFRD 1  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6208  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence  
REPN: POIR 2270  
SHOT: LITTLE FELLER-I ; LITTLE FELLER-II  
TSHO: SURFACE  
SUJO: 1-110-000 ; 1-710-000 ; 3-312-100  
TEMP: 61947  
TITL: TISSUE DOSIMETRY, OPERATION SUN BEAM, SHOT LITTLE FELLER I AND II,  
PRELIMINARY REPORT PROJECT 4.1 (U), 29 P (SFRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2272  
AUTH: BUTLER K.L.  
CLSS: S  
CORP: NAVY/NAVAL MISSILE CENTER (POINT MUGU-CA)  
DATE: 6209  
REPN: POIR 2272  
TEMP: 29157  
TITL: AIRBORNE E-FIELD RADIATION MEASUREMENTS OF ELECTROMAGNETIC PULSE  
PHENOMENA, OPERATION SUN BEAM, SHOT LITTLE FELLER II AND SMALL BOY,  
PROJECT OFFICERS INTERIM REPORT, PROJECT 7.16 (U), 26 P (S)

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created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2273  
AUTH: LINDSTEN D.C.  
CLSS: O  
CORP: ARMY/ENGINEER RESEARCH AND DEVELOPMENT LABORATORIES (FORT  
BELVOIR-VA)  
DATE: 6208  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout Particles chemical composition  
solubility L1 WATER FALLOUT  
DESC: Nuclear Weapon Effects materials plastics resins L1  
DESC: Nuclear Weapon Effects supply food water L1 WATER FALLOUT  
REPN: POIR 2273

PROJ: 7.17  
SHOT: SMALL BOY ; JOHNNY BOY ; LITTLE FELLER I ; LITTLE FELLER II  
TSHO: SURFACE  
SUJO: 2-222-100 ; 3-171-000 ; 3-244-000  
TITL: RADIOLOGICAL WATER DECONTAMINATION STUDY, OPERATION SUN BEAM, SHOT  
LITTLE FELLER I, II, JOHNNIE BOY, AND SMALL BOY, PRELIMINARY REPORT,  
PROJECT 7.17 (U), 47 P (OUO)

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POIR 2273

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created: 12/27/1991 type: REPORT permanent

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INUM: R 63-1-079  
AUTH: MCCORMAC B.  
CLSS: SRD  
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)  
DATE: 6210  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L5  
DESC: SUMMARY  
SHOT: STARFISH  
TSHO: HI-ALT  
SUJO: 2-217-000  
SYMJ: CONTAINED IN HIGH ALTITUDE NUCLEAR EFFECTS REVIEW 63-1 (U), PP 7986  
TITL: SYMPOSIUM ON THE ARTIFICIAL RADIATION BELT (U), 7 P, (SRD)

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R 63-1-079

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created: 12/27/1991 type: REPORT permanent

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INUM: R 63-1-087  
AUTH: JOHNSON O.L. ; LADSON R.A.  
CLSS: SRD  
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)  
DATE: 6212  
DESC: TABULAR SUMMARY  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L1 JOHNSTON I  
SUJO: 5-800-000  
SYMJ: CONTAINED IN HIGH ALTITUDE NUCLEAR EFFECTS REVIEW 63-1 (U), PP  
87-92, (SRD)  
TITL: MAGNETIC FIELD LINES IN THE VICINITY OF JOHNSTON ISLAND (U), 5 P,  
(SRD)

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R 63-1-087

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INUM: WT 0120-32  
ADNO: 341044L  
CLSS: SRD  
CORP: NAVAL RESEARCH LABORATORY (WASH., DC)  
DATE: 5904  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1  
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1  
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature  
Density Particle Velocities L1 TEMPERATURE  
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1  
DESC: EXPERIMENTAL THEORY  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1  
VISIBLE  
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow  
fluorescence L1  
DESC: Nuclear Weapon Environment Visible Output rate L1  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
REPN: WT 0120  
PROJ: 1.3  
SHOT: GEORGE (GREENHOUSE) ; ITEM ; EASY (GREENHOUSE) ; DOG (GH)  
TSHO: LOW-ALT  
SUJO: 1-210-000 ; 1-420-000 ; 1-440-000 ; 1-520-000 ; 1-540-000 ;  
2-110-000 ; 2-130-000 ; 2-214-000 ; 5-200-000  
TEMP: C0242 ; 45090  
TITL: Operation Greenhouse Scientific Director's Report, Annex 1.3,  
Thermal Radiation Measurements; Pt. 2, Total Thermal Radiation (U),  
11 P., (SRD)  
ABS: The radiant energy incident at several observing stations was  
measured during each of the four explosions at Operation Greenhouse  
with thermopiles sensitive in the wavelength interval 0.23 to 12  
microns. The outputs of the thermopiles were recorded ballistically  
with recording galvanometers.

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WT 0120-32

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cat1: cat2: home: STACKS current: STACKS  
created: 9/9/1993 type: REPORT permanent  
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INUM: WT 0829  
AUTH: CAMPBELL J.H.  
CLSS: SRD  
CORP: NAVAL RESEARCH LAB. (WASH., DC)  
DATE: 6101  
SUJO: 1-520-000 ; 1-420-000

DESC: Nuclear Weapon Output UV Optical Spectrum ; Experimental  
SHOT: Annie; Nancy; Ruth; Dixie; Ray; Badger; Simon; Encore; Harry; Grable  
REPN: WT 0829  
TEMP: C0222  
TITL: HIGH-DISPERSION SPECTROGRAPHIC OBSERVATIONS; OPERATION  
UPSHOT-KNOTHOLE, PROJECT 18.3, PART 1 (U), 76 P., (SRD)

ABS: The general objective of Project 18.3 was to record spectrographically the ultraviolet and visible radiation from all but one (Shot 11, Climax) of the nuclear devices exploded during Upshot-Knothole. One of the specific objectives was to obtain high-dispersion spectra under a variety of space and time conditions using a two-deck, 21-foot Jarrell-Ash grating spectrograph.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 0912  
ADNO: 341055  
AUTH: DEMPSEY R.H. ; LARRICK R.G. ; BARAFF G.A. ; JOHNSON O.E. JR.  
CLSS: U (DECLASSIFIED)  
CORP: ARMY/SIGNAL ENGINEERING LABS (FORT MONMOUTH-NJ)  
DATE: 5903  
DESC: SURFACE OBSERVATION ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
LOCAL FALLOUT  
REPN: WT 0912  
PROJ: 2.1  
SHOT: BRAVO ; KOON ; UNION ; NECTAR ; ROMEO  
TSHO: SURFACE ; WATER-SURFACE  
SUJO: 1-710-000 ; 2-223-200  
TEMP: B9463 ; 59307 ; D2495  
TITL: GAMMA RADIATION EXPOSURE; OPERATION CASTLE, PROJECT 2.1, 42 P, (U)  
ABS: The objective of Project 2.1 was the general documentation of the initial- and residual-gamma radiation exposures resulting from the surface detonation of megaton-yield-range thermonuclear devices in order to provide data for the determination and evaluation of the gamma-radiation hazards associated with such bursts. The following types of dosimeters were used as gamma-radiation detectors: photographic, chemical and Radiac Set AN/PDR-39. The detectors were calibrated with a 782.5-curie Co-60 source. The source was calibrated on-site using standard Victoreen r-chambers, which were calibrated at the National Bureau of Standards for use at 22 C and 76-mm pressure. Instrument shelters were installed on reef, beach, and land locations to enable differentiation between initial- and residual-gamma exposures.  
ABS: Gamma-radiation exposure measurements were made at known distances from ground zero for each of the five shots in which the project

participated. The initial-gamma data has limitations; the bulk of the data was completely lost due to the destruction of most of the initial-gamma-stations. A comparison of the fragmentary initial-exposure data with scaled data shows reasonable agreement, although there is an insufficient quantity of data to analyze for effective mean free paths. For surface bursts up to 15 Mt in yield, initial-gamma radiation exposure is of little military significance to unprotected personnel or material as compared to thermal and/or blast damage. Residual-gamma radiation resulting from the fallout produced by megaton-yield-range devices was a serious military hazard in a downwind direction at a distance of 10 miles from ground zero of Shot 1.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 0913

ADNO: 338330

AUTH: BROWN P. ; CARP G.

CLSS: U (DECLASSED)

CORP: ARMY/SIGNAL ENGINEERING LABS (FORT MONMOUTH-NJ)

DATE: 5902

DESC: EXPERIMENTAL THEORY

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

DESC: Nuclear Weapon Environment radiation decay gamma decay L1

DESC: Nuclear Weapon Environment Initial Gamma source strength total

intensity L1

REPN: WT 0913

PROJ: 2.2

SHOT: BRAVO ; KOON ; UNION

TSHO: SURFACE ; WATER-SURFACE

SUJO: 1-710-000 ; 1-740-000 ; 2-223-420

TEMP: B9462 ; 59322 ; D2496

TITL: GAMMA RATE VERSUS TIME; OPERATION CASTLE, PROJECT 2.2, 32 P, (U)

ABS: The objective of Project 2.2 was to measure initial- and residual-gamma rates as a function of time at various distances from high-yield thermonuclear detonations. The measurements made are in good agreement with data from "The Nuclear Radiation Handbook," AFSWP 1100. It appears that the initial-gamma radiation is of negligible significance, because blast and thermal effects in the same distance range are so great by comparison that survival would be possible only if personnel were disposed inside blast- and thermal-proof bunkers.

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INUM: WT 0934  
AUTH: SCOVILLE H.  
CLSS: SRD  
CORP: OFFICE OF THE DEPUTY CHIEF OF STAFF (ALBUQUERQUE-NM)  
DATE: 5901  
DESC: nuclear test detection methods hardware L5  
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L5  
DESC: Nuclear Weapon Effects on plants blast shock blowdown L5  
DESC: Environmental Conditions at Nuclear Weapon Test Site L9 P17  
DESC: Nuclear Weapon Effects flight systems airplanes L5  
DESC: Environmental Conditions at Nuclear Weapon Test Site ionospheric  
conditions at time of test L9 P20  
DESC: Nuclear Weapon Environment Airblast L5  
DESC: SUMMARY  
DESC: Nuclear Weapon Effects on animals ionizing radiation L5  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5  
DESC: Nuclear Weapon Environment Fallout Radioproperties L5  
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L5  
DESC: Nuclear Weapon Environment Water Shock pressure impulse particle  
motion L5  
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L5  
DESC: Nuclear Weapon Effects structures aboveground buildings L5  
DESC: Nuclear Weapon Environment Airblast effects of atmospheric  
inhomogeneities L5  
REPN: WT 0934  
PROJ: 1 ; 2 ; 3 ; 4 ; 6 ; 7 ; 9  
SHOT: BRAVO ; ROMEO ; KOON ; UNION ; YANKEE ; NECTAR  
TSHO: SURFACE ; WATER SURFACE  
SUJO: 1-140-000 ; 1-740-000 ; 2-223-000 ; 2-225-100 ; 2-610-000 ;  
2-613-300 ; 2-633-000 ; 3-111-000 ; 3-161-000 ; 3-251-000 ;  
3-312-000 ; 3-331-000 ; 4-840-000 ; 4-845-000 ; 4-910-000  
TEMP: B9448 ; B1843 ; 39307  
TITL: SUMMARY REPORT OF THE COMMANDER, TASK UNIT 13, MILITARY EFFECTS,  
PROGRAMS 1-9; OPERATION CASTLE (U), 118 P (SRD)  
ABS: This report is the final summary of the military-effect test program  
conducted during Operation Castle at the Enewetok, then called the  
"Pacific" Proving Ground in the spring of 1954. Although a few  
military-effect project reports were not yet published when this  
summary was written, all had been submitted in draft form and were  
available for reference in preparing this summary report. Report is  
organized to present 1) a general summary of the background of  
military-effect participation on Castle in the first chapter, 2) a  
general discussion of the findings of each test program in  
subsequent chapters, and 3) a brief abstract of each project and  
bibliographical information on each project report in the Appendix.

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WT 0934  
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INUM: WT 0935  
ADNO: 338336L  
AUTH: FOLSOM T.R. ; WERNER L.B.  
CLSS: SRD  
CORP: SCRIPPS INSTITUTION OF OCEANOGRAPHY (LA JOLLA-CA) ;  
NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 5904  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: UNDERWATER OBSERVATION SURFACE OBSERVATION LOCAL FALLOUT ;  
EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout beta intensities L1  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity L5  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: Nuclear Weapon Environment fallout arrival time L1 P62  
REPN: WT 0935  
PROJ: 2.7  
SHOT: YANKEE ; NECTAR  
TSHO: WATER-SURFACE  
SUJO: 2-223-200 ; 2-223-300 ; 2-225-100 ; 2-225-300 ; 4-821-000  
TEMP: B9442 ; 59320  
TITL: DISTRIBUTION OF RADIOACTIVE FALLOUT BY SURVEY AND ANALYSIS OF SEA  
WATER; OPERATION CASTLE, PROJECT 2.7, 92 P, (SRD)  
ABS: Oceanographic-survey and water-sampling techniques were employed to  
evaluate the amount and distribution of the fallout received over  
extended areas adjacent to nuclear detonations of high yields. The  
project was established as a result of the fallout phenomena  
observed following Shot 1. The operational and technical details had  
to be hastily contrived so that they could be put into effect within  
the latter phase of Operation Castle. This is a record of  
experimental data required following Shot 5 and Shot 6 of Operation  
Castle together with a careful re-evaluation of its significance.

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INUM: WT 1014  
ADNO: 445669  
AUTH: ISAACS J.D.  
CLSS: U  
CORP: SCRIPPS INSTITUTE OF OCEANOGRAPHY (LA JOLLA-CA)  
DATE: 6203  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
DESC: Nuclear Weapon Environment radiation decay gamma decay

DESC: EXPERIMENTAL  
REPN: WT 1014  
SHOT: WIGWAM  
TSHO: UW  
SUJO: 2-223-420 ; 2-225-100  
TITL: MECHANISM AND EXTENT OF THE EARLY DISPERSION OF RADIOACTIVE PRODUCTS  
IN WATER; OPERATION WIGWAM, PROJECT 2.6-1 (U), 56 P (U)

ABS: The early distribution of radioactivity in the sea following Shot Wigwam, 14 May 1955, was complex. During the early survey, which extended from 14 to 24 May, the radioactive water masses were surveyed continuously. The surface radioactivity was surveyed three times, and three other water masses extending from the thermocline to 300 meters in depth were also surveyed. The total activity found, referred to 120 hours after detonation, was  $8.5 \times 10$  to the 7th power curies. This result is extremely close to the prediction of the "concept" of  $8.41 \times 10$  to the 7th power curies at H+120 hours. The closeness of the results is meaningless because of the many uncertainties involved in the measurements. Thirty-two percent of the activity was found in the surface layers, and 68 percent was found at a depth of 200 to 300 meters.

ABS: The deep activity was found to be complexly distributed in laminae of activity that moved more or less independently on the surface and other waters. It appears that the mechanism that gave rise to this distribution was an emergence of a deep column of water at early times following the detonation and a subsequent mixing of these deeper waters with the surface layers and their sinking to an intermediate depth as a result of instability. Heat of the detonation apparently had no eventual effect upon the distribution of radioactivity other than the creation of the initial gas globe. It appears that the upwelling of this column of deep water was the result of the persistence and migration of the gas globe. The emergence of the column gave rise to an east-west moving mass of water on the surface, perhaps due to the earth's rotation.

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INUM: WT 1115  
ADNO: 340142L  
AUTH: GRAHAM J.B. ; LARRICK R.J. ; JOHNSON O.E. ; HURLEY T.J.  
CLSS: SRD 1  
CORP: ARMY/ELECTRONICS LABORATORIES (FT MONMOUTH-NJ)  
DATE: 5910  
DESC: test instruments nuclear radiation gamma L5  
DESC: Nuclear Test Simulation Field Programs experiment design gamma  
experiments L1  
DESC: Nuclear Weapon Environment Initial Gamma angular distribution L9  
POST ONLY P 41  
DESC: CLOSE IN OBSERVATION ; EXPERIMENTAL

DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1 DEV-29 DEV-30 DEV-47 DEV-46 CLOSE INOBSERVATION  
INTERMEDIATE RANGE OBSERVATION  
REPN: WT 1115  
PROJ: 2.1  
SHOT: WASP ; MOTH ; TESLA ; TURK ; HORNET ; BEE ; APPLE-1 ; WASP PRIME ;  
HA ; POST ; MET ; APPLE-2 ; ZUCCHINI ; ESS  
TSHO: LOW-ALT ; UNDERGROUND-VENTED  
SUJO: 1-710-000 ; 1-730-000 ; 4-341-000 ; 4-820-400  
TEMP: C0082 ; 23495 ; 59483 (DTIC)  
TITL: GAMMA EXPOSURE VERSUS DISTANCE; OPERATION TEAPOT, PROJECT 2.1 (U),  
46 P (SRD)  
TREE: 910

ABS: The objectives of Project 2.1 were to measure the initial gamma exposure as a function of distance from various Operation Teapot detonations and to compare these measurements with predicted exposures from various standard weapons detonated under similar circumstances. Primary emphasis was placed on measurements made for a device detonated at 36,620 feet MSL (Shot 10) and for an identical device detonated at 4,995 feet MSL (Shot 9). In addition, measurements were made for designated prototype weapons of essentially new design. Measurements were also made in support of other projects. Most Operation Teapot shot devices produced a high-neutron flux and a nonstandard gamma output; consequently, there is little physical basis to expect the gamma exposures from these devices to scale.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1118  
ADNO: 341058L  
AUTH: GRAHAM J.B. ; CARP G. ; MARKOW B. ; RAST R.  
CLSS: CRD  
CORP: ARMY SIGNAL RESEARCH AND DEVELOPMENT LAB (FT MONMOUTH, NJ)  
DATE: 5910  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
DESC: CLOSE IN OBSERVATION ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
NEUTRON INDUCED  
DESC: Nuclear Weapon Environment fallout arrival time L1  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity L5  
DESC: test instruments nuclear radiation gamma L5  
DESC: Soil Rock Properties Equation of State Conductivity L9 ISOTOPIC  
CONCENTRATIONS OF NTS SOIL P 46  
REPN: WT 1118  
PROJ: 2.4  
SHOT: ESS ; WASP ; WASP PRIME ; MOTH ; TESLA

TSHO: UG-VENTED ; LOW-ALT  
SUJO: 2-223-200 ; 2-223-420 ; 2-225-300 ; 4-341-000 ; 4-821-000 ;  
6-300-000  
TEMP: C0084 ; 59507  
TITL: GAMMA DOSE RATE VERSUS TIME AND DISTANCE; OPERATION TEAPOT, PROJECT  
2.4 (U), 56 P (CRD)  
TREE: 910

ABS: Project 2.4 objectives were: 1) to measure the gamma intensity  
versus time of an underground nuclear detonation at several  
distances from ground zero; and 2) to measure the neutron-induced  
gamma activity versus time in the vicinity of ground zero of air  
bursts and to determine the decay rate of this activity. The project  
participated in five shots.

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INUM: WT 1146  
ADNO: 339905L  
AUTH: HILLENDahl R.W. ; LAUGHRIDGE F.I.  
CLSS: U (DECLASSIFIED)  
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO-CA)  
DATE: 5907  
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy  
Coupling L1  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: CLOSE IN OBSERVATION INTERMEDIATE RANGE OBSERVATION SURFACE  
OBSERVATION ; EXPERIMENTAL  
DESC: thermal protection L1 SMOKE  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
DESC: Nuclear Test Simulation Field Programs experiment design thermal L5  
DESC: Nuclear Weapon Environment Visible Output source strength total  
intensity L1  
REPN: WT 1146  
PROJ: 8.4B  
SHOT: WASP ; MOTH ; TESLA ; HORNET ; BEE ; WASP PRIME ; HA ; ZUCCHINI  
TSHO: LOW-ALT  
SUJO: 1-210-000 ; 1-240-000 ; 1-410-000 ; 1-420-000 ; 2-110-000 ;  
2-150-000 ; 4-820-700 ; 9-870-000  
TEMP: C0101 ; B1832 ; D2456  
TITL: BASIC THERMAL-RADIATION MEASUREMENTS; OPERATION TEAPOT, PROJECT 8.4b  
(U), 96 P, (U)  
ABS: The objective of Project 8.4b was to determine the physical  
characteristics of the thermal radiation from nuclear devices  
detonated during Operation Teapot at ranges where the thermal  
radiation causes damage to military targets. More specifically, the

objectives were to: 1) accumulate basic thermal data, such as total thermal energy, broadband spectral distribution of the thermal energy, and the thermal irradiance, for weapon sizes for which these data were not available; 2) check the existing thermal scaling laws and to modify and extend them to include a wider range of weapon sizes; 3) attempt thermal measurements, at extremely close ranges and high energies where there were no experimental data available;

ABS: 4) determine the relative differences in thermal energy received from tower and air bursts and to compute the thermal yields for both cases; 5) see if a correlation exists between weapon characteristics and the characteristics of the thermal radiations; 6) determine the effects of burst altitude upon the pulse shape and other characteristics of the thermal radiations; 7) assist the Army Chemical Corps in the evaluation of the effectiveness of an oil-fog smoke screen as an attenuator of thermal radiations; 8) attempt a determination of thermal input to various material plots placed at close ranges and the correlation of the data with air temperature, sound velocity, gas sampling, and photographic measurements; 9) obtain additional data relative to the atmospheric attenuation of thermal radiations;

ABS: 10) determine the effective color temperature of the fireball as viewed from close range; 11) determine the apparent geometry and size of the fireball at times of significant thermal emission; 12) determine the minimum power temperature of the fireball as a function time; and 13) test new thermal instrumentation designed to measure in energy ranges higher and lower than those measured in previous operations.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1177

ADNO: 611256

AUTH: LINDBERG R.G. ; ROMNEY E.M. ; OLAFSON J.H. ; LARSON K.H.

CLSS: U

CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES-CALIFORNIA)

DATE: 5901

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment fallout Deposition

DESC: Nuclear Weapon Environment Fallout Radioproperties

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic

DESC: Nuclear Weapon Phenomenology cloud Motion

DESC: Nuclear Weapon Environment Fallout Particles

DESC: Nuclear Test Simulation Field Programs experiment design fallout radioactivity

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

DESC: Nuclear Weapon Effects ecological

REPN: WT 1177

SHOT: TURK ; BEE ; ESS ; APPLE-1 ; APPLE-2 ; MET ; POST

TSHO: LOW-ALT  
SUJO: 2-222-000 ; 2-223-000 ; 2-224-000 ; 2-225-000 ; 3-312-200 ;  
3-332-200 ; 3-341-000 ; 4-821-000  
TITL: FACTORS INFLUENCING THE BIOLOGICAL FATE AND PERSISTENCE OF  
RADIOACTIVE FALLOUT; OPERATION TEAPOT, PROJECT 37.1 (U), 78 P (U)

ABS: The purpose of this investigation was to study the factors influencing the biological fate and persistence of radioactive fallout materials in areas adjacent to the Nevada Test Site. Data have been obtained pertaining to the following phenomena: 1) The biological accumulation of radioactive materials derived from nuclear detonations as functions of distance of the sampling station from Ground Zero (GZ), radioactive particle-size distribution, and fractionation of fallout material as it may vary with distance from GZ. These data included determinations of total uptake of fission products in animals, sites of retention, rates of clearance, and isotopic identification of some contaminants.

ABS: 2) The persistence of radioactive fallout material on plants and in animals living in contaminated environments. 3) The availability of fallout materials to plants under various conditions of contamination. These studies included cropping of contaminated soils, foliar retention, and uptake of radioactive materials from soils treated with organic matter exposed to fallout materials. 4) Evaluation of inhalation as a significant phenomenon in the uptake of radioactive fallout in actual fallout areas. 5) The percentage distribution of the total-body burden of certain fission products in the tissues of animals exposed to fallout at various distances of GZ.

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WT 1177

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INUM: WT 1194  
ADNO: 611160  
AUTH: Randall P.A.  
CLSS: U  
CORP: Office of Civil and Defense Mobilization (Wash., DC) ; Federal  
Housing Administration (Wash., DC) ; House and Home Finance Agency  
(Wash., DC)  
DATE: 6103  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects structures aboveground buildings  
DESC: Nuclear Test Simulation Field Programs experiment design surface  
vehicles structures)  
REPN: WT 1194  
SHOT: APPLE-2  
TSHO: LOW-ALT  
SUJO: 3-251-000 ; 4-829-200  
TITL: Damage to Conventional and Special Types of Residences Exposed to  
Nuclear Effects; Operation Teapot, Project 31.1 (U), 83 P (U)

ABS: On May 5, 1955, at the Nevada Test Site of the Atomic Energy Commission, 10 residential structures were exposed to the explosion of a nuclear device (Apple II) of approximately 30-kt yield, detonated atop a 500-ft tower, to test their behavior and resistance to nuclear weapons effects and to obtain data that will contribute to the development of improved protective designs. From a determination of the behavior of these structures under blast, thermal and nuclear radiation effects, it should be possible to determine the best steps to be taken for the protection of families living in such structures and to obtain necessary additional data on the strengths of the structures as a whole and possible weaknesses in component parts.

ABS: Project 31.1 was concerned primarily with blast and radiation effects on residential structures, and precautions were taken to avoid ignition of the structures by the thermal energy of the explosion. Data obtained are expected to be useful also in the development of methods for strengthening the structures within limits of practical economy, and in providing information on the possible use of the structures for housing without major repairs following a nuclear event.

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WT 1194

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INUM: WT 1225

ADNO: 460282

AUTH: Mather R.L. ; Johnson R.F. ; Tomnovec F.M. ; Cook C.S.

CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO-CA)

DATE: 5910

DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation gamma

REPN: WT 1225

SHOT: ESS

TSHO: SURFACE

SUJO: 2-223-200 ; 4-341-000 ; 4-821-000

TITL: Gamma Radiation Field Above Fallout Contaminated Ground; Operation  
Teapot, Project 2.3b (U), 96 P (U)

ABS: One of the objectives of Project 2.3 was to find the relationship between fallout gamma-radiation-source spectra (which can be measured in the laboratory) and the physical characteristics of the radiation field existing over a uniformly contaminated area. This objective was met by measuring the energy and direction distribution of gamma photons 3-1/2-ft above a fallout-contaminated area nine days after the burst of a fission device using a mobile-scintillation spectrometer. The complete interpretation of



these measurements yielded the necessary relationships. It was concluded that the direct, unscattered radiation field, which contributes about 80 percent of the roentgen effectiveness, could be computed from the source strength and spectrum on the basis of simple theory requiring knowledge only of the thickness of overlying inert material.

ABS: Further experiments are needed to establish the character of this overlying material and the variation of its thickness with time and other parameters. Further experiments are needed to establish the magnitude and causes of variations in the fallout source strength and spectrum. The conclusion was reached that the scattered radiation field was of the sort to be expected. Computations of this field are difficult, but definitive comparisons with the experimental results must await them.

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INUM: WT 1229

ADNO: A995010

AUTH: Plum W.B. ; Jenkins R.J. ; Hopton R.L.

CLSS: U

CORP: Naval Radiological Defense Lab (San Francisco, CA)

DATE: 5902

REPN: WT 1229

TITL: Irradiance Measurements with Time Resolution; Operation Teapot, Project 8.4f (Supplement to WT 1150) (U), 15 P., (U)

ABS: Data for several shots during Operation Teapot suggest that there is some deviation from the relationship  $W(kt)=1.37 \times 10$  to the 5th,  $t_2$  min, where  $t$  min is the time in seconds to the minimum in the irradiance-time curve, for devices with yields of less than 10 kt. This deviation is apparently due to variations in the mass-yield ratio for these comparatively small devices and was as much as 25 percent for a 2-kt device. The total thermal energy radiated prior to the minimum is less than 1 percent of the total thermal energy radiated for all shots reported. The data were obtained with a bolometer chopper system with a time constant of 50 msec.

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INUM: WT 1311

ADNO: 339465L

AUTH: Brown P. ; Carp G. ; Markow B. ; Marmioli R.

CLSS: SFRD  
CORP: Army Signal Research and Development Lab (Ft. Monmouth-NJ)  
DATE: 6001  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1, 174 L1, 22253 L1, 222342 L1  
DESC: INTERMEDIATE RANGE OBSERVATION ; EXPERIMENTAL  
REPN: WT 1311  
PROJ: 2.2  
SHOT: FLATHEAD ; NAVAJO ; ZUNI ; TEWA  
TSHO: SURFACE ; WATER-SURFACE  
SUJO: 1-710-000  
TEMP: 45605 ; B9429  
TITL: Gamma Exposure Rate Versus Time; Operation Redwing, Project 2.2 (U),  
53 P (SRD)

ABS: The primary objectives of Project 2.2 were: 1) to measure the  
initial-gamma-exposure rate as a function of time from the  
detonation of high-yield-thermonuclear devices; and 2) to measure  
the residual-gamma-exposure rate as a function of time at land  
fallout stations. Secondary objectives were: 1) to measure residual  
radiation at early times on the crater lip of a high-yield,  
land-surface shot; and 2) to field test a prototype  
thermal-radiation detector to be used in a  
radiological-defense-warning system.

TREE: 910

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WT 1311

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INUM: WT 1314  
ADNO: 339959L  
AUTH: Cowan M. Jr.  
CLSS: SFRD  
CORP: Sandia Corp (Albuquerque-NM)  
DATE: 5912  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L9 YUMA P 19  
DESC: EXPERIMENTAL  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity L5  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
REPN: WT 1314  
PROJ: 2.52  
SHOT: CHEROKEE ; YUMA  
TSHO: LOW-ALT  
SUJO: 1-110-000 ; 2-223-200 ; 4-821-000  
TEMP: B9426 ; 59513  
TITL: Neutron-Induced Soil Radioactivity; Operation Redwing, Project 2.52  
(U), 27 P,(SRD)

ABS: This experiment was designed to provide data to aid the formulation

of a method for predicting the gamma-radiation field caused by air bursts. Specific objectives were to measure the induced activity from a large-yield, thermonuclear air burst and to exploit the opportunity offered for an investigation of activity induced in some soil other than the soil of the Nevada Test Site. When a bomb-drop error prevented any data being obtained on Shot Cherokee, an additional experiment was set up on Shot Yuma to obtain some data applicable to the second specific objective.

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WT 1314

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1315

ADNO: 339947L

AUTH: Soule R.R. ; Shirasawa T.H.

CLSS: SRD

CORP: Naval Radiological Defense Lab (San Francisco-CA)

DATE: 6004

DESC: Nuclear Weapon Environment fallout intensity contours patterns

DESC: Nuclear Weapon Environment Fallout isotope concentrations

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: EXPERIMENTAL

REPN: WT 1315

SHOT: TEWA ; NAVAJO ; ZUNI ; CHEROKEE

TSHO: LOW-ALT ; SURFACE ; WATER-SURFACE

SUJO: 2-223-100 ; 2-223-200 ; 2-225-100

TEMP: B9425 ; 45647

TITL: Rocket Determination of Activity Distribution Within the Stabilized Cloud; Operation Redwing, Project 2.61 (U), 52 P (SRD)

ABS: The specific objectives of Project 2.61 were to: 1) proof test a system using rocket-borne detection units with telemetering transmitters to explore the spatial distribution of radioactivity in the stem and cloud resulting from a nuclear detonation; 2) measure gamma intensities along several continuous known trajectories passing through the stem and cloud at 7 and 15 minutes after detonation; and 3) estimate the extent to which the rocket became contaminated as it passed through the stem or cloud.

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WT 1315

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INUM: WT 1316

ADNO: 338867L

AUTH: Jennings F.D. ; Schwartzlose R.A. ; Huffer R.P. ; Martin D. ; Isaacs

J.D.

CLSS: SRD  
CORP: Scripps Institute of Oceanography (La Jolla-CA)  
DATE: 6102  
DESC: test instruments nuclear radiation gamma L5  
DESC: Nuclear Weapon Environment fallout arrival time L1  
DESC: Dynamic Oceanography L5  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity L5  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: Nuclear Weapon Effects on animals ionizing radiation L1  
DESC: UNDERWATER OBSERVATION INTERMEDIATE RANGE OBSERVATION ; EXPERIMENTAL  
TABULAR  
DESC: Nuclear Weapon Environment fallout down fraction L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
DESC: Environmental Conditions at Nuclear Weapon Test Site underwater  
conditions bottom measurements L1  
REPN: WT 1316  
PROJ: 2.62A  
SHOT: CHEROKEE ; FLATHEAD ; NAVAJO ; TEWA ; ZUNI  
TSHO: WATER-SURFACE ; LOW-ALT ; SURFACE  
SUJO: 2-223-200 ; 2-225-100 ; 2-225-200 ; 2-225-300 ; 3-312-000 ;  
4-341-000 ; 4-821-000 ; 4-844-000 ; 7-100-000  
TEMP: B9424 ; 59482  
TITL: Fallout Studies by Oceanographic Methods; Operation Redwing, Project  
2.62a (U), 158 P, (SRD)

ABS: The objectives of this project were to: 1) understand the oceanography of the fallout area, so as to allow better analysis of the fallout area; 2) determine by oceanographic methods the intensity and extent of fallout and convert this to land-equivalent values; 3) study the circulation water within Bikini Lagoon and predict the movement of the radioactive material suspended in the lagoon; 4) install and maintain anchored instrument stations in deep ocean water; and 5) perform radiochemical analyses on as wide a scope as possible with equipment on hand. In achieving these objectives, it was hoped that enough information concerning the study and measurement of fallout at sea would be gained to permit a reduction in the number and types of measurements required to describe the fallout phenomena under various conditions of detonation.

ABS: It was also anticipated that the early determination of the initial fallout distribution would be valuable to other agencies making long-range studies of the radioactive water mass.

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WT 1316

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INUM: WT 1317  
ADNO: 341068

AUTH: Triffet T. ; LaRiviere P.D.  
CLSS: SRD  
CORP: Naval Radiological Defense Lab (San Francisco-CA)  
DATE: 6103  
REPN: WT 1317  
TEMP: B9423 ; 59388  
TITL: Characterization of Fallout; Operation Redwing, Project 2.63 (U) 310  
P, (SRD)

ABS: The general objective was to collect and correlate the data needed to characterize the fallout, interpret the observed surface-radiation contours, and check the models used to make predictions, for Shots Cherokee, Zuni, Flathead, Navajo, and Tewa during Operation Redwing. The specific objectives of the project were: 1) to determine the time of arrival, rate of arrival, and cessation of fallout, as well as the variation in particle-size distribution and gamma-radiation field intensity with time, at several points close to and distant from ground zero; 2) to collect undisturbed samples of fallout from appropriate land- and water-surface detonations for the purpose of describing certain physical properties of the particles and droplets, including their shape, size, density and associated radioactivity;

ABS: measuring the activity and mass deposited per unit area; establishing the chemical and radiochemical composition of the fallout material; and determining the sizes of particles and droplets arriving at given times at several important points in the fallout area; 3) to make early-time studies of selected particles and samples in order to establish their radioactive-decay rates and gamma-energy spectra; 4) to measure the rate of penetration of activity in the ocean during fallout, the variation of activity with depth during and after fallout, and the variation of the gamma-radiation field with time a short distance above the water surface; and 5) to obtain supplementary radiation-contour data at short and intermediate distances from ground zero by total-fallout collections and time-of-arrival measurements.

ABS: It was not an objective of the project to obtain data sufficient for the determination of complete fallout contours. Instead, emphasis was placed on 1) complete and controlled documentation of the fallout event at certain key points throughout the pattern, also intended to serve as correlation points with the surveys of other projects, 2) precise measurements of time-dependent phenomena, which could be utilized to establish which the conflicting assumptions of various fallout prediction theories were correct; 3) analysis of the fallout material for the primary purpose of obtaining a better understanding of the contaminant produced by water-surface detonations; and 4) gross documentation of the fallout at a large number of points in and near the lagoon.

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WT 1317

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INUM: WT 1318  
ADNO: 361829  
AUTH: Graveson R.T. ; Cassidy M.E. ; Levine H.D.  
CLSS: SRD  
CORP: Atomic Energy Commission (New York, NY)  
DATE: 6012  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity L5  
DESC: Radiation Transport gamma L9 TEAPOT WIGWAM P.67  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
LOCAL FALLOUT  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout beta intensities L1 LOCAL FALLOUT  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
LOCAL FALLOUT  
REPN: WT 1318  
PROJ: 2.64  
SHOT: CHEROKEE ; ZUNI ; FLATHEAD ; NAVAJO ; MOHAWK ; TEWA ; TEAPOT  
(SERIES) ; WIGWAM  
TSHO: LOW-ALT ; WATER SURFACE ; SURFACE  
SUJO: 2-223-200 ; 2-223-300 ; 2-225-100 ; 4-821-000 ; 9-620-000  
TEMP: B9422 ; B8009 (DTIC)  
TITL: Operation Redwing, Project 2.64; Fallout Location and Delineation by  
Aerial Surveys (U), 75 P., (SRD)  
ABS: The objectives were to: 1) survey the gamma radiation from  
fallout-contaminated ocean areas by means of aerial detectors, and  
2) from the aerial detectors make air-absorption measurements so  
that the data might be related to the dose rates at 3 feet above the  
sea.

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INUM: WT 1319  
ADNO: 340136L  
AUTH: Morgenthau M. ; Shaw H.E. ; Tompkins R.C. ; Krey P.W  
CLSS: SRD  
CORP: Army/Chemical Warfare Labs. (MD)  
DATE: 6002  
DESC: Nuclear Weapon Environment Fallout Particles chemical composition  
solubility L1  
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1  
DESC: test instruments nuclear radiation gamma L5  
DESC: test instruments nuclear radiation fallout debris sampling  
collectors L5  
DESC: Nuclear Weapon Phenomenology base surge L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity L5

DESC: Nuclear Weapon Environment fallout accumulation rate L1 INTERMEDIATE  
RANGE OBSERVATION  
DESC: Nuclear Weapon Environment Fallout Particles physical  
characteristics L1  
DESC: Nuclear Weapon Environment Fallout Radioproperties L1  
DESC: LOCAL FALLOUT ; EXPERIMENTAL TABULAR  
DESC: Nuclear Weapon Environment fallout arrival time L1  
REPN: WT 1319  
PROJ: 2.65  
SHOT: CHEROKEE ; ZUNI ; TEWA ; NAVAJO ; FLATHEAD ; LACROSSE ; MOHAWK  
TSHO: LOW-ALT ; SURFACE ; WATER SURFACE  
SUJO: 2-222-100 ; 2-222-200 ; 2-222-300 ; 2-223-000 ; 2-224-120 ;  
2-225-100 ; 2-225-300 ; 2-225-400 ; 4-341-000 ; 4-345-000 ;  
4-821-000  
TEMP: B9421 ; 59512 (DTIC)  
TITL: Operation Redwing, Project 2.65; Land Fallout Studies (U), 162 P.,  
(SRD)  
ABS: The objectives of Project 2.65 were to obtain samples and perform  
radiophysical and radiochemical measurements on the samples, prepare  
dose-rate contours in the immediate area of the atoll, and evaluate  
the role of base surge in the transport of radioactive material.

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WT 1319

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INUM: WT 1320  
ADNO: 338625  
AUTH: Pinson E.A. ; Kaericher K.C. ; Banks J.E. ; Hord J.  
CLSS: SRD  
CORP: Air Force Special Weapons Center (Kirtland AFB, NM)  
DATE: 6002  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Nuclear Weapon Effects flight systems airplanes  
DESC: EXPERIMENTAL  
DESC: test instruments nuclear radiation gamma  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
internal  
DESC: Nuclear Weapon Phenomenology cloud shape size  
REPN: WT 1320  
SHOT: CHEROKEE ; ZUNI ; FLATHEAD ; APACHE ; NAVAJO  
TSHO: WATER-SURFACE ; LOW-ALT  
SUJO: 2-223-200 ; 2-223-420 ; 2-224-140 ; 3-111-000 ; 3-312-200 ;  
3-312-220 ; 4-341-000 ; 4-821-000  
TEMP: B9420 ; B7514-I ; 57714  
TITL: Operation Redwing; Project 2.66a; Early Cloud Penetrations (U), 56

P., (SRD)

ABS: Twenty-seven penetrations of six radiation clouds from multimegaton-range detonations were made at times ranging from 20 to 78 minutes after detonation and at altitudes ranging from 20,000 to 50,000 feet. Sixteen of these penetrations were earlier than 45 minutes and seven were earlier than 30 minutes.

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WT 1320

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1321

ADNO: 357967L

AUTH: Rinnert H.R.

CLASS: U (DECLASSED)

CORP: Naval Radiological Defense Lab (San Francisco, CA)

DATE: 5907

DESC: Nuclear Test Simulation Field Programs experiment design fallout radioactivity

DESC: Cross Sections gamma

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic external

DESC: test instruments nuclear radiation gamma

DESC: YAG-39 SHIP YAG-40 SHIP ; EXPERIMENTAL

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

REPN: WT 1321

SHOT: ZUNI ; NAVAJO ; TEWA ; FLATHEAD

TSHO: WATER-SURFACE ; SURFACE

SUJO: 2-223-200 ; 3-312-210 ; 4-341-000 ; 4-821-000 ; 9-830-000

TEMP: 49147 ; D2384

TITL: Operation Redwing, Project 2.71; Ship-Shielding Studies (U), 90 P., (U)

ABS: The principal objectives of this project were to determine, for the types of nuclear detonations encountered during Operation Redwing, 1) the relative gamma radiation fields resulting from radioactive contaminants on a ship's weather surfaces, in the surrounding air envelope, and in the surrounding water envelope as a function of time, and 2) characteristics of the interaction of gamma radiation with steel as a function of thickness and time after detonation. It was concluded and recommended that all calculations of radiation attenuation afforded by ships structures should include consideration of: 1) the changing relationships among the significant contributions of the several radiation sources, and 2) the significant variation of the gamma radiation absorption and scattering characteristics of steel with respect to shot type and time after detonation.

ABS: These variables should be investigated for as many shot conditions as may be practicable, especially for underwater detonations where significantly different results may be expected in the relationships among radiation sources.



TREE: 411

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WT 1321

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1322

ABS: Various test surfaces and specimens were exposed on YAG-39 and YAG-40 to fallout. Contaminability-decontaminability (C-D) studies were conducted when the ships returned to Eniwetok lagoon. Radiological warfare may require new standards of cleanliness for naval ships. Wood decking should be maintained as smooth as possible with no raw wood exposed. All payed joints should be free of fissures and pockets. Nothing, including wire ropes, manila lines, and firehoses not required during attack, should be stored on the main deck. After contamination, any materials that cannot be destroyed should be stored uncoiled to minimize the radiation field, or stored in a unfrequented location.

ADNO: 362109

AUTH: Heiskell R.H.

CLSS: U (DECLASSED)

CORP: Naval Radiological Defense Lab. (San Francisco-CA)

DATE: 5901

REPN: WT 1322

TEMP: 59375 ; D2383

TITL: Operation Redwing, Project 2.8; Shipboard  
Radiological-Countermeasure Methods (U), 86 P., (U)

TNFF: 6290 ; 6220

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WT 1322

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1323

ADNO: 357962L

AUTH: Vine F.S. ; Owen W.L.

CLSS: U (DECLASSED)

CORP: Navy Bureau of Ships (Wash., DC) ; Naval Radiological Defense Lab.  
(San Francisco-CA)

DATE: 5903

REPN: WT 1323

TEMP: 59382 ; D2423

TITL: Operation Redwing, Project 2.9; Standard Recovery Procedure for  
Tactical Decontamination of Ships (U), 46 P., (U)

ABS: The objectives of this project were 1) to proof test a proposed  
standard recovery procedure for the tactical decontamination of Navy

ships and 2) to perform, as required, an operational decontamination of each of three test ships to enable them to make their next scheduled participation.

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WT 1323

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1324

ABS: This project was conducted to verify the effectiveness of a washdown system as a radiological countermeasure for ships. The evaluations were made possible by the requirement for washdown-equipped ships to be stationed within the region of tactically significant fallout in order to support several projects in the fallout characterization program of operation Redwing. Washdown effectiveness was measured by a comparison of gamma-radiation field measurements taken in the unwashed control area forward and the washed after portion of each ship. The test ships participated in five shots and at least one of them was sufficiently contaminated in four of these to make washdown evaluation feasible.

ADNO: 357963L

AUTH: Armstrong W.J. ; Bigger M.M. ; Curtis H.B.

CLSS: U (DECLASSED)

CORP: Naval Radiological Defense Lab. (San Francisco-CA) ; Naval Bureau of Ships (Wash., DC)

DATE: 5902

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5

DESC: Nuclear Weapon Environment fallout arrival time L5

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects ship systems surface ships L1 FALLOUT REMOVAL

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L5

REPN: WT 1324

PROJ: 2.10

SHOT: NAVAJO ; FLATHEAD ; TEWA ; ZUNI

TSHO: SURFACE ; WATER SURFACE

SUJO: 2-223-200 ; 2-225-300 ; 3-122-000 ; 3-312-200

TEMP: 59311 ; D2422

TITL: Operation Redwing, Project 2.10; Verification of Shipboard Washdown Countermeasure (U), 56 P., (U)

TNFF: 6290

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WT 1324

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1328

ADNO: 340140L  
AUTH: Williams F.L.  
CLSS: SFRD  
CORP: Air Force Air Development Center (Wright-Patterson AFB, OH) ; Boeing Aircraft Co.  
DATE: 5910  
DESC: Nuclear weapon test yield  
DESC: Environmental Conditions at Nuclear Weapon Test Site weather  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects flight systems airplanes  
DESC: Nuclear Test Simulation Field Programs experiment design aerospace systems  
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt  
REPN: WT 1328  
SHOT: CHEROKEE ; ZUNI ; FLATHEAD ; DAKOTA ; MOHAWK ; APACHE ; NAVAJO ; TEWA ; HURON  
TSHO: WATER-SURFACE ; LOW-ALT ; SURFACE  
SUJO: 2-611-000 ; 3-111-000 ; 3-312-100 ; 4-829-100 ; 4-835-000 ; 4-841-000  
TEMP: B9412 ; 59127 (DTIC)  
TITL: Operation Redwing, Project 5.2; In-Flight Participation of a B-52 (U), 71 P., (SFRD)  
ABS: The primary objective of this project was to obtain measured-energy input and aircraft-response data on an instrumented B-52 aircraft when subjected to the thermal, blast, and gust effects of a nuclear explosion.

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WT 1328

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INUM: WT 1333  
ADNO: 361768L  
AUTH: Dresser R.L. ; Gauvin H.P. ; Wares G.W. ; Walker R.G. ; Ellis R.E. ; Doherty C.A. ; Kofsky I.L. ; Johnson J.C.  
CLSS: SFRD  
CORP: Air Force Cambridge Research Labs. (Cambridge, MA) ; Technical Operations, Inc. (Burlington, MA)  
DATE: 6109  
DESC: Nuclear Weapon Environment Infrared Output source strength total intensity  
DESC: Nuclear Weapon Environment Thermal Output angular distribution  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates  
DESC: Nuclear Weapon Environment Visible Output source strength total intensity  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air  
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature Density Particle Velocities  
DESC: Nuclear Weapon Environment Visible Output energy spectrum

DESC: Nuclear Weapon Environment Visible Output rate  
DESC: Nuclear Weapon Phenomenology Fireball Chemistry  
DESC: Nuclear Weapon Effects meteorological Wilson Cloud  
DESC: Nuclear Weapon Effects Light scattering optical interference from  
dust  
DESC: EXPERIMENTAL  
DESC: Nuclear Test Simulation Field Programs experiment design optical  
radiation experiments UV visible IR  
DESC: Nuclear Weapon Environment Thermal Output rate  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity  
DESC: Nuclear Weapon Environment Visible Output angular distribution  
DESC: Nuclear Weapon Phenomenology plumes spray domes  
REPN: WT 1333  
SHOT: ERIE ; LACROSSE ; HURON ; MOHAWK ; FLATHEAD ; DAKOTA ; APACHE ; ZUNI  
; TEWA ; NAVAJO ; CHEROKEE  
TSHO: SURFACE ; LOW-ALT  
SUJO: 1-210-000 ; 1-230-000 ; 1-240-000 ; 1-310-000 ; 1-410-000 ;  
1-420-000 ; 1-430-000 ; 1-440-000 ; 2-110-000 ; 2-130-000 ;  
2-160-000 ; 2-224-130 ; 2-226-000 ; 2-720-000 ; 4-820-600 ;  
5-200-000  
TEMP: B9240 ; B1828 ; A9961  
TITL: Operation Redwing, Project 5.7; Thermal Flux and Albedo Measurements  
from Aircraft (U), 305 P., (SFRD)  
ABS: The primary objective was to obtain and evaluate experimental data  
on the basic thermal phenomena associated with the nuclear and  
thermonuclear explosions detonated between 5 May and 22 July 1956 at  
the Pacific Proving Grounds. This data was to be obtained from  
airborne instrumentation.

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INUM: WT 1338  
ADNO: 338041L  
AUTH: Plum W.B. ; Hillendahl R.W. ; Laughridge F.I. ; Nichols J.R.  
CLSS: SRD  
CORP: Naval Radiological Defense Lab. (San Francisco-CA)  
DATE: 5905  
DESC: Nuclear Test Simulation Field Programs experiment design photography  
L9 P 18  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear Test Simulation Field Programs experiment design thermal L5  
DESC: INTERMEDIATE RANGE OBSERVATION ; EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear Weapon Environment Visible Output source strength total  
intensity L1

DESC: Nuclear Weapon Environment Visible Output rate L1  
REPN: WT 1338  
SHOT: LACROSSE ; CHEROKEE ; ZUNI  
TSHO: LOW-ALT ; SURFACE  
SUJO: 1-210-000 ; 1-240-000 ; 1-410-000 ; 1-440-000 ; 2-110-000 ;  
4-820-700 ; 4-826-000  
TEMP: B9244 ; B1826

TITL: Operation Redwing, Project 8.1a; Basic Thermal Radiation  
Measurements from Ground Stations (U), 82 P, (SRD)

ABS: The objectives of this project were to determine the characteristics of the thermal radiation emitted by three of the nuclear devices detonated at the Enewetok Proving Ground during Operation Redwing. More specifically, the objectives were to: 1) accumulate basic thermal data for device yields and burst conditions for which these data were not previously available; 2) extend the existing thermal scaling laws to include a wider range of yields; 3) obtain atmospheric attenuation data applicable to nuclear-weapon situations; and 4) determine the thermal energy input to the material samples exposed by Project 8.2, experimental instruments exposed by Project 8.3, aircraft panels exposed by Project 8.4 and the animals exposed by Project 4.1.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1339  
ADNO: 465331  
AUTH: Fons W.L. ; Butler C.P. ; Bruce H.D.  
CLSS: U  
CORP: US Forest Service (Wash., DC)  
DATE: 5903  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity

DESC: Nuclear Weapon Effects materials wood paper cellulose films

REPN: WT 1339

SHOT: CHEROKEE

TSHO: LOW-ALT

SUJO: 1-210-000 ; 3-246-000

TITL: Operation Redwing, Project 8.2; Thermal Effects on Cellulosic  
Materials (U), 32 P (U)

ABS: The project's primary objectives were the determination of: 1) the minimum thermal-ignition energies for the fine kindling fuels as a check on laboratory data obtained by the US Forest Service and the US Naval Radiological Defense Lab and 2) the depth of char in wood as a check on equations developed from laboratory data obtained by NRDL with a carbon arc.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1340  
ADNO: 357964L  
AUTH: Mahoney J.J. ; Keough D.D. ; Goodwin L.K. ; Moles D.W. ; Thomas W.B.  
CLSS: U (DECLASSD)  
CORP: Army Chemical Center (Edgewood-MD)  
DATE: 5903  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity  
DESC: test instruments thermal temperature  
DESC: EXPERIMENTAL  
REPN: WT 1340  
SHOT: CHEROKEE  
TSHO: LOW-ALT  
SUJO: 1-210-000 ; 4-384-000  
TEMP: B9248 ; 49106 ; D2432  
TITL: Operation Redwing, Project 8.3; Evaluation of Self-Recording Thermal  
Radiation Instruments (U), 26 P (U)  
ABS: This project's objective was to evaluate two improved types of new  
modifications of a Chemical Corps instrument used at Operation  
Teapot and a commercial instrument for general use in measurement of  
high-intensity radiant exposure.

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1342  
ADNO: 338042L  
AUTH: Zirkind R.  
CLSS: SRD  
CORP: Naval Bureau of Aeronautics (Wash., DC)  
DATE: 6007  
DESC: Nuclear Weapon Environment Visible Output rate L1  
DESC: TROPOSPHERIC OBSERVATION INTERMEDIATE RANGE OBSERVATION ;  
EXPERIMENTAL TABULAR  
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L5  
DESC: Nuclear Test Simulation Field Programs experiment design optical  
radiation experiments UV visible IR L5  
DESC: Nuclear Weapon Environment Infrared Output rate L1  
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
REPN: WT 1342

PROJ: 8.5  
SHOT: LACROSSE ; CHEROKEE ; ZUNI ; ERIE ; FLATHEAD  
TSHO: LOW-ALT ; SURFACE  
SUJO: 1-210-000 ; 1-340-000 ; 1-440-000 ; 1-540-000 ; 4-820-600 ;  
5-200-000  
TEMP: B9242 ; 59484 (DTIC)  
TITL: Operation Redwing, Project 8.5; Airborne High-Resolution Spectral  
Analysis (U), 70 P, (SRD)  
ABS: The objectives of the project were: 1) compare the measurements of  
the spectral irradiance recorded at an airborne station with that  
recorded by a ground station for an air burst of a device in the  
megaton region and a surface burst of a device in the same yield  
range; 2) measure the spectral characteristics of the thermal  
radiation as a function of time from a fireball unperturbed by the  
reflected shock during the early portion of the thermal pulse; 3)  
accumulate narrow-band spectral data with a high time resolution  
heretofore unavailable over a large range of yields; 4) determine  
the time variation of the irradiance color temperature; 5) correlate  
results of high-resolution spectroscopy with broad-band calorimetry;  
ABS: 6) check existing thermal scaling laws and modify and extend them  
wherever possible and necessary; and 7) compare the thermal data  
from surface detonations with that from air bursts. Sufficient data  
was obtained to satisfy the objectives of this project. The  
significant results include: 1) the irradiance history as a function  
of wave length; 2) spectral dependence of the basic time parameters  
of the thermal radiation; 3) agreement between airborne and surface  
measurements of  $t_{sub 1min}$  and  $t_{sub 2max}$  when atmospheric effects  
are taken into consideration; and 4) agreement between airborne and  
ground-station observations of the estimated irradiance color  
temperatures.

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INUM: WT 1350

ABS: Standard Navy dosimeters DT-60/PD (phosphor glass) and IM-107/PD  
(quartz fiber) were mounted on the surface of masonite man-sized  
phantoms and exposed to radiation fields caused by deposited fallout  
on the YAG-39 and YAG-40 in order to evaluate their response in  
terms of the 3-to-5-cm-depth dose. This dose is considered a more  
satisfactory indicator for the evaluation of acute effects to  
personnel in nuclear warfare than is the air dose. Depth-dose  
configurations in these phantoms were determined by means of  
phosphate-glass needles. The radiation doses indicated by the  
surface detectors were compared with those at a depth of 3 cm.

ABS: Differences and scatter in the readings of the two types of standard  
dosimeters, and differences between the surface readings and the  
depth readings, indicate that the DT-60/PD and IM-107/PD dosimeters  
are not satisfactory in their present form for proper measurement

and interpretation of the radiation dose received by shipboard personnel above decks in a fallout field.; DOSEMETERS; DEPTH DOSE DISTRIBUTIONS; FALLOUT; GLASS; NUCLEAR EXPLOSIONS; PHANTOMS; QUARTZ CHALCOGENIDES; EXPLOSIONS; MEASURING INSTRUMENTS; MINERALS; MOCKUP; OXIDE MINERALS; OXIDES; OXYGEN COMPOUNDS; RADIATION DOSE DISTRIBUTIONS; SILICON COMPOUNDS; SILICON OXIDES; SPATIAL DOSE DISTRIBUTIONS; STRUCTURAL MODELS

ADNO: 465332  
AUTH: Rainey S.C.  
CLSS: U  
CORP: NAVY BUREAU OF SHIPS (WASH., DC) ; NAVY MEDICAL RESEARCH INSTITUTE (BETHESDA, MD)  
DATE: 5904  
REPN: WT 1350  
TTTL: Operation Redwing, Project 2.72; Evaluaiton of Standard Navy Dosimeters DT 60/PD AND IM-107/PD in Residual Radiation Fields Aboard Ships (U), 44 P (U)

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INUM: WT 1353  
AUTH: Ong C.J. ; Kowalsky i.T. ; Jacoby D.D.  
CLSS: SRD  
CORP: Army Signal Engineering Labs. (Ft. Monmouth, NJ)  
DATE: 6003  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1 VLF ELF  
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1 VLF  
ELF  
EMPF: 213  
REPN: WT 1353  
PROJ: 6.5  
SHOT: INCA ; HURON ; MOHAWK ; DAKOTA ; CHEROKEE ; NAVAJO ; TEWA ; YUMA ; LACROSSE ; ZUNI ; ERIE ; SEMINOLE ; FLATHEAD ; BLACKFOOT ; OSAGE ; KICKAPOO ; APACHE  
TSHO: SURFACE ; WATER-SURFACE ; LOW-ALT  
SUJO: 2-321-100 ; 2-510-000  
TEMP: B9257 ; 31336  
TTTL: Operation Redwing, Project 6.5; Measurement of Radio-Frequency Electromagnetic Radiation from Nuclear Detonations (U), 81 P (SRD)  
ABS: The objective of Project 6.5 was to obtain, at several distances, oscillographic wave forms of the electromagnetic pulses generated by each of the nuclear detonations during Operation Redwing. These waveforms were to be analyzed to determine if correlation existed between selected pulse characteristics and various bomb parameters (yield, height of burst, device characteristics, etc.). Additional data was desired on the variation of pulse shape and field strength with distance. Information obtained from this study was to supply



design information for a system to detect detonations, locate ground zero, and measure yield and possibly height of burst at remote distances.

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INUM: WT 1368  
ADNO: 357968L  
AUTH: Banks J.E. ; Dick J.L. ; Pinson E.A.  
CLSS: U (DECLASSD)  
CORP: Air Force Weapons Lab. (Kirtland AFB, NM)  
DATE: 5905  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt  
DESC: Nuclear Weapon Effects flight systems balloons airships  
REPN: WT 1368  
SHOT: ERIE ; INCA ; ZUNI ; FLATHEAD ; DAKOTA ; APACHE  
SUJO: 3-119-000 ; 3-312-100  
TEMP: B9262 ; 45729 ; D2450  
TITL: Operation Redwing, Project 2.66b; Contact Radiation Hardad  
Associated with Aircraft Contamination by Early Cloud Penetrations  
(U), 36 P (U)

ABS: The contact hazard which personnel experience when working on radioactively contaminated aircraft was investigated. Measurements of the contact hazard are approximated by surveying the aircraft with a gamma survey instrument (T1B) and applying a correction factor to the readings obtained; 110 times the T1B reading (r/hr) will give the approximate contact dose (rep/hr) to the skin in areas of direct impingement of the contaminant, i.e., leading edge of the wing, nose, etc., whereas 40 times the T1B reading is applicable to the sliding surfaces, i.e., sides of the fuselage. The protection to an individual from the contact hazard realized by wearing gloves was also investigated. All gloves tested reduced the radiation intensity to the hands by at least 50 percent in addition to preventing the contaminant from coming in direct contact with the skin.

ABS: Wearing of gloves in radiation fields of 0.1 r/hr or more is recommended. It is recommended that Air Force publications be revised to indicate the lack of necessity for the decontamination of radioactively contaminated aircraft by Air Force Operational organizations.

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INUM: WT 1410  
ADNO: 360822L  
AUTH: Krey P.W. ; Wilsey E.F. ; McNeilly J.H. ; Peterson D.D. ; Bloore  
E.W.  
CLSS: SRD  
CORP: Army Chemical Warfare Labs. (Army Chemical Center, MD)  
DATE: 6005  
DESC: Radiation Transport x-ray L5 SCATTER  
DESC: Soil Rock Properties Equation of State Conductivity L5 NTS SOIL  
ANALYSIS  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
ACTIVATED SOIL  
DESC: Cross Sections gamma L5 ABSORPTION COEFFICIENTS OF SOIL  
DESC: CLOSE IN OBSERVATION ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L5 P 44-46  
DESC: Nuclear Weapon Environment radiation decay gamma decay L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
REPN: WT 1410  
PROJ: 2.1  
SHOT: FRANKLIN ; LASSEN ; WILSON ; PRISCILLA ; OWENS  
TSHO: LOW-ALT  
SUJO: 1-110-000 ; 2-223-200 ; 2-223-420 ; 2-225-100 ; 6-300-000 ;  
9-640-000 ; 9-830-000  
TEMP: C0184 ; 59534 ; D2445  
TITL: Operation Plumbbob, Project 2.1; Soil Activation by Neutrons (U),  
114 P, (SRD)  
ABS: The overall objective of this project was to investigate the  
induction of gamma-emitting radioisotopes in homogeneous soils by  
nuclear detonations and the subsequent generation of hazardous  
radiation levels in the vicinity of these detonations, so that the  
radiological hazard to personnel in these areas could eventually be  
predicted. The specific objectives were: 1) to measure the field  
dose rates from neutron-induced activity in several American soils;  
2) to measure the thermal-neutron flux as a function of depth  
beneath the surface and distance from ground zero for several  
American soils; 3) to analyze the gamma spectra on the induced  
nuclides in the soil as a function of depth beneath the surface of  
two different American soils; 4) to check these data with  
theoretical estimations of such effects, and 5) to examine the  
effect of moisture content in soil activation.

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INUM: WT 1411  
ADNO: 338519L  
AUTH: Cook C.S. ; Thompson W.E. ; Tomnovec F.M. ; Mathe R.L. ; Ferguson  
J.M. ; Howland P.R.

CLSS: SRD  
CORP: Naval Radiological Defense Lab. (San Francisco-CA)  
DATE: 5907  
DESC: CLOSE IN OBSERVATION ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1  
NEUTRON INDUCED  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L5  
REPN: WT 1411  
PROJ: 2.2  
SHOT: WILSON ; OWENS ; LAPLACE  
TSHO: LOW-ALT  
SUJO: 1-110-000 ; 2-223-200  
TEMP: C0185 ; 59496 ; D2444  
TITL: Operation Plumbbob, Project 2.2; Neutron-Induced Activities in Soil  
Elements (U), 82 P (SRD)

ABS: The objective of this project was to gather information concerning  
the radioactivity produced by the interaction of neutrons from a  
nuclear device with materials that normally constitute a soil and to  
correlate this information with measurements of the resulting  
gamma-radiation fields. This objective was one phase in the study of  
operational methods for the prediction of gamma-radiation field  
intensities resulting from the tactical use of a nuclear weapon  
detonated at such a height that negligible fallout occurs in the  
vicinity of ground zero.

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INUM: WT 1412  
ADNO: 338341L  
AUTH: Rigotti D. ; Kinch J.W. ; Funsten H.O. ; Binkowski B.B.  
CLSS: SRD  
CORP: Army Chemical Warfare Labs. (Army Chemical Center, MD)  
DATE: 6004  
DESC: Cross Sections neutron L5  
DESC: Nuclear weapon test yield L9 P17  
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L7 P46  
DESC: EXPERIMENTAL TABULAR  
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1  
DESC: test instruments nuclear radiation neutron L5  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
REPN: WT 1412  
PROJ: 2.3  
SHOT: FRANKLIN ; LASSEN ; WILSON ; PRISCILLA ; HOOD ; OWENS ; DOPPLER ;  
SMOKY ; LAPLACE ; JOHN  
TSHO: LOW-ALT  
SUJO: 1-110-000 ; 1-120-000 ; 4-342-000 ; 4-835-000 ; 4-841-000 ;

9-820-000

TEMP: C0186 ; 59495 ; D2443

TITL: Operation Plumbbob, Project 2.3; Neutron Flux from Selected Nuclear Devices (U), 60 P (SRD)

ABS: The objectives of Project 2.3 in Operation Plumbbob were to: 1) measure the neutron flux versus ground range for selected nuclear devices, and 2) provide neutron flux and dose measurements as required in support of other projects.

TREE: 920

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INUM: WT 1413

ADNO: 342209L

AUTH: Tompkins R.C. ; Weaver C.F. ; Peterson G.A.

CLSS: SRD

CORP: Army Chemical Warfare Labs. (MD)

DATE: 6101

DESC: Nuclear Weapon Effects structures field fortifications L1 NEUTRON  
GAMMA FOXHOLE HASTYSHELTER

DESC: Cross Sections neutron L1 CONCRETE STEEL SOIL

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L5

DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1

DESC: Cross Sections gamma L1 CONCRETE STEEL SOIL

DESC: Nuclear Weapon Effects land transport armored vehicles L1 NEUTRON  
GAMMA WITHIN VEHICLE TANKS

DESC: Nuclear Weapon Effects structures underground structures lined L1  
NEUTRON GAMMA

DESC: CLOSE IN OBSERVATION ; EXPERIMENTAL

REPN: WT 1413

PROJ: 2.4

SHOT: OWENS ; PRISCILLA ; FRANKLIN ; LASSEN ; WILSON ; HOOD

TSHO: LOW-ALT

SUJO: 1-110-000 ; 3-140-000 ; 3-151-000 ; 3-262-000 ; 4-140-000 ;

9-820-000 ; 9-830-000

TEMP: C0187 ; 59487 ; D2442

TITL: Operation Plumbbob, Project 2.4; Neutron and Initial-Gamma Shielding (U), 120 P., (SRD)

ABS: The objectives of this project were to: 1) perform neutron- and gamma-shielding tests on structures, shelters, fortifications, and M-48 tanks to fill in the gaps in existing empirical data; 2) determine relative neutron and gamma inside/outside dose ratios for two types of tank armor, which the Ordnance Corps will attempt to correlate with contemplated laboratory shielding studies; and 3) perform neutron- and gamma-attenuation studies in soil in order to obtain an indication of the variation of gamma dose, neutron dose,

and neutron spectrum with depth. A secondary objective was added after the project was in the field: 4) perform neutron and gamma shielding tests on Ontos vehicles.

TREE: 411 ; 412

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WT 1413

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1414

AUTH: Carp G. ; Johnson O. ; Bladwin T. ; Larrick R. ; Markow B. ; Lavicka F. ; McAfee W.

CLSS: SRD

CORP: Army Signal and Development Lab. (Ft. Monmouth, NJ)

DATE: 6104

REPN: WT 1414

TEMP: C0190 ; D2441

TITL: Operation Plumbbob, Project 2.5; Initial-Gamma Radiation Intensity and Neutron-Induced Gamma Radiation of NTS Soil (U), 135 P., (SRD)

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WT 1414

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1416

AUTH: Hanscome T.D. ; Caldwell P.A. ; Gobics S.G. ; Jones E.C. ; Kunz W.E. ; Pearse C.A. ; Stout C.M.

CLSS: SRD

CORP: Naval Research Lab. (Wash., DC)

DATE: 6205

DESC: EARLY TIME CLOSE-IN OBSERVATION MICROWAVE ; THEORY EXPERIMENTAL

DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature Density Particle Velocities L1

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

EMPF: 213

REPN: WT 1416

PROJ: 2.7

SHOT: BOLTZMANN ; HOOD ; WILSON ; OWENS ; KEPLER ; DIABLO ; PRISCILLA

TSHO: LOW-ALT

SUJO: 1-740-000 ; 2-110-000 ; 2-130-000 ; 2-321-100 ; 2-510-000

TEMP: 45080 ; C0192

TITL: Operation Plumbbob, Project 2.7; Investigation of Effects of Nuclear Detonations on Electromagnetic Wave Propagation and Nuclear

Radiation Detector Design (U), 99 P (SRD)

ABS: The objectives were to: 1) proof test (at Nevada Test Site altitudes) telemetry and nuclear radiation detection techniques intended for use in measurements of effects of high-altitude nuclear detonations, 2) study radio wave propagation in the vicinity of nuclear detonations, 3) study the effects of the electromagnetic signal produced by the detonation on the equipment used, and 4) compare the calculated and measured attenuations.

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WT 1416

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INUM: WT 1417  
ADNO: 360872L  
AUTH: DiIanni E.J. ; Riggin F.C.  
CLSS: U (DECLASSED)  
CORP: Naval Material Lab. (Brooklyn, NY)  
DATE: 5911  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: test instruments nuclear radiation dosimeters radiaes  
DESC: test instruments nuclear radiation gamma  
REPN: WT 1417  
SHOT: DIABLO ; HOOD ; PRISCILLA ; WILSON  
TSHO: LOW-ALT ; LOW-ALT  
SUJO: 2-223-200 ; 2-223-420 ; 3-312-210 ; 4-341-000 ; 4-346-000  
TEMP: 59090 ; D2460  
TITL: Operation Plumbbob, Project 2.8; Evaluation of Military Radiac (U),  
55 P (U)

ABS: Objectives of Project 2.8 were to 1) develop suitable shields for Navy dosimeter types IM-107/PD (quartz fiber) and DT-60/PD (silver phosphate glass) in order to correct their response to agree with that of standard depth dose detectors imbedded 4 cm in masonite phantoms and 2) compare externally held ratemeter readings with that of a dose-rate standard also imbedded 4 cm in masonite phantoms. Based on laboratory gamma shielding studies conducted in the range 80 kev to 1.25 Mev, external shelds were developed for use with the above dosimeters. The masonite phantoms were designed to simulate average human torso configurations. The effectiveness of the shields in actual field radiological situations was determined in the distributed fields resulting from the induced radiation from Shots Wilson, Priscilla, and Hood and the fallout field from shot Diablo.

ABS: Studies were made of the correlation between dose rates as measured by the AN/PDR-43 (XN-1) and the AN/PDR-44(XN-1) and the dose rates indicated by the Naval Material Laboratory standard depth-dose ratemeter. The results of the measurements performed indicate that

the laboratory shields provided for the IM-107/PD is adequate to provide good correlation with depth dose. Additional shielding is required for the DT-60/PD. Shielding is needed for the AN/PDR-43 and the AN/PDR-44. Results were similar for both neutron-induced and fallout fields.

TREE: 655

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WT 1417

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copy: 1 id: 92069-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1418

AUTH: Kaericher K.C. ; Martin T.P. ; Banks J.E.

CLSS: SFRD

CORP: Air Force Weapons Lab (Kirtland AFB-NM)

DATE: 5905

DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence

DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity

DESC: EXPERIMENTAL

REPN: WT 1418

SHOT: JOHN

TSHO: LOW-ALT

SUJO: 1-110-000 ; 1-710-000

TEMP: C0194 ; 49152

TITL: Operation Plumbbob, Project 2.9; Nuclear Radiation Received by  
Aircrews Firing the MB-1 Rocket (U), 16 P (SFRD)

ABS: The objective of this project was to measure the total neutron and  
gamma dosages received by an aircrew delivering the MB-1 rocket at  
an altitude of 19,000 feet MSL. As a secondary objective, the same  
type measurements were made at locations other than the crew  
compartment and on other aircraft in the delivery array.

TREE: 910 ; 920

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WT 1418

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1419

ADNO: 464381

AUTH: York E.N. ; Boyd R.E. ; Blaylock J.A.

CLSS: U

CORP: Air Force Weapons Lab. (Kirtland AFB, NM)

DATE: 6002

DESC: Nuclear Weapon Environment Prompt Neutron source strength total

fluence

DESC: Nuclear Weapon Environment Initial Gamma source strength total intensity

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Test Simulation Field Programs experiment design gamma experiments

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation dosimeters radiacs

DESC: Nuclear Test Simulation Field Programs experiment design neutron experiments

REPN: WT 1419

SHOT: BOLTZMANN ; WILSON ; HOOD ; OWENS ; DIABLO ; LASSEN ; KEPLER ; JOHN

TSHO: LOW-ALT

SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 4-341-000 ; 4-346-000 ;  
4-820-300 ; 4-820-400

TITL: Operation Plumbbob, Project 2.10; Initial Neutron and Gamma Air-Earth Interface Measurements (U), 68 P (U)

ABS: The objective of this project was to determine the effect of the air-ground interface on measurements of integrated gamma dose, initial gamma dose rate versus time, and neutron flux on the ground as compared to measurements taken in free air. This objective was accomplished by measuring the integrated gamma dose and neutron flux at points on the ground and at corresponding points in the air at heights up to approximately 950 feet and by measuring the gamma dose rates during the initial 10 seconds at points on the ground and at corresponding points approximately 950 feet above the ground. Tethered balloons were used to carry the gamma-dose-rate equipment and other instruments. Measurements of integrated gamma dose and neutron flux were made at intervals along the balloon mooring cables.

TREE: 910 ; 920

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WT 1419

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1420

ADNO: B001855

AUTH: FLATHAU W.J. ; BRECKENRIDGE R.A. ; WIEHLE C.K

CLSS: U

CORP: ARMY/CORPS OF ENGINEERS (VICKSBURG-MS) ; NAVY/CIVIL ENGINEERING LABORATORY (PORT HUENEME-CA)

DATE: 5906

DESC: Environmental Conditions at Nuclear Weapon Test Site geology L1

DESC: Nuclear Weapon Effects materials wood paper cellulose films L9

RECORDING PAPER AND FILM RADIATION P 122-

DESC: Nuclear Weapon Effects structures underground models spheres domes arches L1 BLAST AND SHOCK ARCHES CLOSE IN

DESC: EXPERIMENTAL ; Summary in CEX 68.3



DESC: Nuclear Weapon Environment Airblast static overpressure  
OVERPRESSURE.L1 CLOSE IN  
REPN: WT 1420  
PROJ: 3.1  
SHOT: PRISCILLA  
TSHO: LOW-ALT  
SUJO: 2-611-000 ; 3-246-000 ; 3-269-100 ; 4-311-000 ; 4-313-000 ;  
4-842-000  
TITL: BLAST LOADING AND RESPONSE OF UNDERGROUND CONCRETE-ARCH PROTECTIVE  
STRUCTURES (U), OPERATION PLUMBBOB-PROJECT 3.1, (U)

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WT 1420

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1422  
ADNO: 615737  
AUTH: Albright G.H. ; Beck E.J. ; LeDoux J.C. ; Mitchell R.A.  
CLSS: U  
CORP: Navy Bureau of Yards and Docks (Wash., DC) ; Naval Civil Engineering  
Lab. (Pt. Hueneme-CA)  
DATE: 6102  
DESC: Nuclear Test Simulation Field Programs experiment design underground  
systems  
DESC: Nuclear Weapon Environment Prompt Neutron initial gamma source  
strength total fluence  
DESC: Nuclear Weapon Effects electrical mechanical pipes valves fittings  
underground models arches  
DESC: EXPERIMENTAL; Summary in CEX 68.3  
DESC: test instruments nuclear radiation fallout debris sampling  
collectors  
REPN: WT 1422  
SHOT: PRISCILLA  
TSHO: LOW-ALT  
SUJO: 1-110-000 ; 1-710-000 ; 3-236-000 ; 3-269-100 ; 4-345-000 ;  
4-829-300  
TITL: Operation Plumbbob, Project 3.3; Evaluation of Buried  
Corrugated-Steel Arch Structures and Associated Components (U), 111  
P (U)

ABS: The test effort was concentrated on three basic components of a  
personnel shelter--the shelter structure, the blast closure valve,  
and the electric power source. The objectives were to: 1) determine  
the degree of protection from blast and radiation afforded by  
earth-covered, corrugated-steel arch structures, 2) determine the  
blast capabilities of a blast closure valve, and 3) determine the  
suitability of open pits for blast protection of power generators.

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WT 1422

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: WT 1428  
ADNO: 460308  
AUTH: McDonnel G.M. ; Crosby W.H. ; Tessmer C.F. ; Moncrief W.H. Jr. ;  
Baker H.J. ; Goldstein J.D. ; Woodward K. ; Shively J.N. ; Daniell  
H.W. ; Horava A. ; Claypool H.A.  
CLSS: U  
CORP: Army Walter Reed Army Institute of Research (Wash., DC)  
DATE: 6108  
DESC: Nuclear Weapon Effects animals  
DESC: EXPERIMENTAL  
DESC: Nuclear Test Simulation Field Programs experiment design medical  
REPN: WT 1428  
SHOT: PRISCILLA ; WILSON  
TSHO: LOW-ALT  
SUJO: 3-310-000 ; 4-827-000  
TITL: Operation Plumbbob, Project 4.; Effects of Nuclear Detonations on a  
Large Biological Specimen (Swine) (U), 197 P (U)  
ABS: The data presented in this report results from investigation of the  
effect of nuclear devices on a large biological specimen (swine) in  
the following fields: injuries caused by the nuclear device, wounds  
produced by glass missiles as the wounding agent, and radiation  
studies with exposure to both gamma rays and neutrons. The pig was  
chosen as the biological target because this animal approximated the  
human in cross section (for the radiation study) and has been the  
subject of previous study. The data obtained is extrapolated,  
wherever possible, to humans.

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WT 1428  
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INUM: WT 1431  
ADNO: 360874L  
AUTH: Gilstad D.A. ; Weeber C.G. ; Kviljord A. ; Woods G.W.  
CLSS: U (DECLASSED)  
CORP: Navy Bureau of Aeronautics (Wash., DC) ; Naval Air Material Center  
(Philadelphia, PA)  
DATE: 6004  
DESC: Nuclear Weapon Effects flight systems balloons airships L1 FRANKLIN  
AND STOKES  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Airblast static overpressure  
OVERPRESSURE.L5 ARRIVAL TIME.L5  
REPN: WT 1431  
SHOT: FRANKLIN ; STOKES ; WILSON ; KEPLER ; OWENS

TSHO: LOW-ALT  
SUJO: 2-611-000 ; 3-119-000  
SYST: ZSG-3 AIRSHIP  
TEMP: A7508-I ; 59089 ; D2437  
TITL: Operation Plumbbob, Project 5.2; Structural Response and Gas Dynamics of an Airship Exposed to a Nuclear Detonation (U), 78 P., (U)

ABS: The basic objective of Project 5.2 was to determine the response characteristics of the Model ZSG-3 airship when subjected to a nuclear detonation in order to establish criteria for safe escape distances for airship delivery of antisubmarine warfare (ASW) special weapons. The results should be directly applicable to the ZSG-4 airship type and generally applicable to all other airship types. Specifically, the test program was arranged to secure data in the following major categories: 1) dynamic response of the entire airship and its structural members to various energy input levels, 2) temperature rise and distribution in the airship envelope as a result of thermal radiation, 3) shock-wave propagation in the airship envelope, and 4) vulnerability of structural components that would restrict the weapon-delivery capabilities of the weapon system.

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WT 1431

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1437  
ADNO: 311158  
AUTH: LEE W.S. ; KRUMBOLTZ H.D. ; GIMBER G.A.  
CLSS: U (DECLASSIFIED)  
CORP: NAVY/NAVAL AIR DEVELOPMENT CENTER (JOHNSVILLE-PA)  
DATE: 6006  
DESC: test instruments EM propagation atmospheric chemistry transmitters  
receivers antennas L9 P 39  
DESC: Nuclear Test Simulation Field Programs experiment design atmospheric  
ionization RF propagation noise L1  
DESC: HF VHF UHF MICROWAVES ; EXPERIMENTAL  
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1  
REPN: WT 1437  
PROJ: 6.3  
SHOT: WILSON ; FRANKLIN ; LASSEN  
TSHO: LOW-ALT  
SUJO: 2-321-100 ; 4-324-000 ; 4-823-000  
TEMP: 23502  
TITL: ATTENUATION OF ELECTROMAGNETIC RADIATION THROUGH AN IONIZED MEDIUM,  
OPERATION PLUMBBOB, PROJECT 6.3 (U), 57 P (C)

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WT 1437

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created: 12/27/1991 type: REPORT permanent  
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INUM: WT 1439  
AUTH: ELDER G.E.  
CLSS: SRD 1  
CORP: ARMY/ORDNANCE MISSION (WHITE SANDS MISSILE RANGE-NM)  
DATE: 6010  
DESC: Nuclear Weapon Effects missile systems ABM L1  
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1 CAPACITORS  
DESC: Nuclear Weapon Effects materials plastics resins L1 NUCLEAR  
RADIATION DIELECTRICS  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 VACUUM TUBES  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L9 P 27  
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1  
REPN: WT 1439  
PROJ: 6.5  
SHOT: OWENS ; MORGAN ; FIZEAU ; WILSON  
TSHO: LOW-ALT  
SUJO: 1-110-000 ; 1-710-000 ; 3-112-200 ; 3-211-000 ; 3-221-000 ;  
3-229-000 ; 3-244-000  
TEMP: C0200 ; 45081  
TITL: EFFECTS OF NUCLEAR DETONATIONS ON NIKE HERCULES, OPERATION PLUMBBOB,  
PROJECT 6.5 (U), 96 P (SRD)  
TREE: 392

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WT 1439

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: WT 1440  
ADNO: 460309  
AUTH: BABERS F.H. ; MCQUADE A.J.  
CLSS: U  
CORP: ARMY/QUARTERMASTER RESEARCH AND ENGINEERING COMMAND  
(NATICK-MASSACHUSETTS)  
DATE: 5906  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity  
DESC: test instruments nuclear radiation gamma  
DESC: Nuclear Weapon Effects on animals thermal burns heating  
DESC: Nuclear Weapon Effects supply

DESC: EXPERIMENTAL  
REPN: WT 1440  
SHOT: PRISCILLA ; HOOD  
TSHO: LOW-ALT  
SUJO: 1-210-000 ; 3-170-000 ; 3-313-100 ; 4-341-000  
TITL: THERMAL PROTECTION OF THE INDIVIDUAL SOLDIER, OPERATION PLUMBBOB,  
PROJECT 8.1, WEAPON TEST REPORT (U), 46 P (U)

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WT 1440

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1445  
CLSS: SRD 1  
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)  
DATE: 6208  
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 NUCLEAR RADIATION  
DESC: Nuclear Weapon Effects materials fibers textiles L1  
DESC: Nuclear Weapon Effects structures underground models spheres domes  
arches L1 BLAST  
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture  
displacement particle velocity L1  
DESC: Nuclear Weapon Effects structures aboveground models spheres domes  
arches L1 BLAST  
DESC: Nuclear Weapon Effects materials wood paper cellulose films L1  
DESC: Nuclear Weapon Effects flight systems airplanes L1 BLAST THERMAL  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: CLOSE IN OBSERVATION INTERMEDIATE RANGE OBSERVATION ; EXPERIMENTAL  
SURVEY  
DESC: Nuclear Weapon Environment Airblast height-of-burst HOB L1  
DESC: Nuclear Weapon Environment Airblast static overpressure  
OVERPRESSURE.L1 ARRIVAL TIME.L1  
DESC: Nuclear weapon test yield L1 ALL SHOTS IN PLUMBBOB  
DESC: Nuclear Weapon Effects missile systems ABM L1 NUCLEAR RADIATION  
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1  
NUCLEAR RADIATION  
DESC: Nuclear Weapon Effects on animals thermal burns heating L1  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L1 ALL  
SHOTS IN PLUMBBOB  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE.L1  
DESC: Nuclear Weapon Effects materials metals alloys L1 THERMAL CLOSE IN

REPN: WT 1445  
SHOT: PRISCILLA ; SMOKY ; JOHN ; OWENS ; FRANKLIN ; WILSON ; BOLTZMANN ;  
LASSEN ; HOOD ; DIABLO ; KEPLER ; STOKES ; SHASTA ; DOPPLER ;  
FRANKLIN PRIME ; GALILEO ; WHEELER ; LAPLACE ; FIZEAU ; NEWTON ;  
RAINIER ; WHITNEY ; CHARLESTON ; MORGAN  
TSHO: LOW ALT  
SUJO: 1-110-000 ; 1-210-000 ; 1-240-000 ; 1-710-000 ; 1-740-000 ;  
2-225-100 ; 2-611-000 ; 2-612-000 ; 2-613-100 ; 2-621-000 ;  
3-111-000 ; 3-112-200 ; 3-211-000 ; 3-221-000 ; 3-242-000 ;  
3-243-000 ; 3-246-000 ; 3-259-100 ; 3-269-100 ; 3-313-100 ;  
4-835-000 ; 4-841-000  
TEMP: C0203 ; 31333  
TITL: TECHNICAL SUMMARY OF MILITARY EFFECTS, PROGRAMS 1-9, OPERATION  
PLUMBBOB, MAY-OCTOBER 1957 (U), 225 P (SRD)

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WT 1445

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1453  
ADNO: 611259  
AUTH: COHEN E. ; DOBBS N.  
CLSS: U  
CORP: AMMANN AND WHITNEY (NEW YORK-NEW YORK)  
DATE: 6206  
DESC: Nuclear Test Simulation Field Programs experiment design underground  
systems  
DESC: Nuclear Weapon Effects structures underground structures lined  
DESC: CHARLESTON ; EXPERIMENTAL ; Summary in CEX 68.3  
DESC: test instruments nuclear radiation dosimeters radiacs  
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture  
displacement particle velocity  
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE  
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE  
REPN: WT 1453  
SHOT: SMOKY ; GALILEO ; WHITNEY  
TSHO: LOW-ALT  
SUJO: 2-611-000 ; 2-612-000 ; 2-621-000 ; 3-262-000 ; 4-346-000 ;  
4-829-300  
TITL: TEST OF FRENCH UNDERGROUND PERSONNEL SHELTERS, OPERATION PLUMBBOB,  
PROJECT 30.6, WEAPON TEST REPORT (U), 295 P (U)

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WT 1453

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1454  
ADNO: 691407  
AUTH: COHEN E. ; BOTTENHOFER A.  
CLSS: U  
CORP: AMMANN AND WHITNEY (NY)  
DATE: 6206  
DESC: Nuclear Weapon Environment Airblast dynamic pressure L5 static  
overpressure L5 ground shock L5 Initial Gamma L5  
DESC: Nuclear Weapon Effects materials plastics resins L5 ENSOLITE SHOCK  
ABSORBING MATERIAL  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5  
DESC: Nuclear Weapon Effects structures underground structures Nine  
structures were exposed at predicted overpressure levels from 7.4 to  
264.6 psi on Smoky. Summary in CEX 68.3 additional information in WT  
1536.  
DESC: BLAST AND SHOCK NUCLEAR RADIATION TRANSIENTS FALLOUT INTERMEDIATE  
RANGE OBSERVATION ; EXPERIMENTAL TABULAR  
DESC: Nuclear Test Simulation Field Programs experiment design structures)  
L5  
REPN: WT 1454  
PROJ: 30.7  
SHOT: SMOKY ; STOKES ; GALILEO ; WHITNEY ; CHARLESTON  
TSHO: LOW-ALT  
SUJO: 1-710-000 ; 2-223-200 ; 2-611-000 ; 2-612-000 ; 2-622-000 ;  
2-623-000 ; 3-244-000 ; 3-262-000 ; 4-829-200  
TITL: TEST OF GERMAN UNDERGROUND PERSONNEL SHELTERS (U), 266 P, (U) TEST  
DIRECTOR, CIRCA 240 P, (U)

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WT 1454

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1464  
ABS: The objective of project 32.3 was to evaluate some operational  
characteristics of a radio-logical shelter and to determine values  
for some countermeasures-system parameters. The operation consisted  
of two phases, the first involving measurements made by project  
personnel in a manned station having the the characteristics of a  
high-performance radiological shelter and the second involving  
monitoring and reclamation operations in an area near the shelter  
beginning about 1 hr after burst.  
ABS: Measurements were made inside the shelter beginning at shot time to  
(1) test a simple shelter monitoring system, (2) test a proposed  
ventilation intake configuration intended to eliminate a requirement  
for filtration of the shelter air supply, (3) determine the  
effective gamma-radiation shielding afforded by an operational  
shelter, including two different exhaust ventilation configurations  
and a simple entrance configuration, and (4) determine those  
radiation and fallout characteristics needed to evaluate the  
operational measurements. The second phase involved (1) the test of

a key-point initial monitoring technique, (2) the test of two proposed techniques for determining reclamation effectiveness in advance of reclamation operations, (3) the test of the feasibility of achieving a residual number of 0.01 in a cleared area, and (4) the test of a barrier as an alternative to a buffer zone.

ABS: Data was obtained on two shots (Diablo and Shasta). The shelter, having a minimum earth-cover thickness of 3 ft, provided an average shielding reduction factor of about 10,000. All openings in the earth cover for ventilation and other purposes were satisfactory from a radiological point of view with the exception of the straight entrance way. The shelter monitoring system provided adequate information. The air-filter data showed no requirement for air filtration at air intake flow rates of 300 to 600 cfm with the intake configuration used. All objectives in the second phase were successfully met with one exception. It was not possible to obtain an adequate test of the feasibility of achieving a residual number of 0.01 in the staging area because of the poor condition of the test area.

ADNO: 611260

AUTH: STROPE W.E.

CLSS: U

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)

DATE: 5909

DESC: Civil Defense shelters L1

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic external

DESC: Nuclear Warfare Postattack Recovery decontamination L1

DESC: Nuclear Test Simulation Field Programs experiment design fallout radioactivity

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Fallout isotope concentrations

DESC: Nuclear Weapon Environment radiation decay gamma decay

REPN: WT 1464

SHOT: DIABLO ; SHASTA

TSHO: LOW-ALT

SUJO: 2-223-100 ; 2-223-420 ; 3-312-210 ; 3-448-900 ; 3-474-000 ; 4-341-000 ; 4-821-000

TITL: EVALUATION OF COUNTERMEASURE SYSTEM COMPONENTS AND OPERATIONAL PROCEDURES, OPERATION PLUMBBOB, PROJECT 32.3, WEAPON TEST REPORT (U), 159 P (U)

TNFF: 6250 ; 6290

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WT 1464

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1477

ADNO: 611263



AUTH: TITUS W.F.  
CLSS: U  
CORP: FEDERAL CIVIL DEFENSE ADMINISTRATION (BATTLE CREEK-MICHIGAN)  
DATE: 6004  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Cross Sections gamma  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity  
REPN: WT 1477  
SUJO: 2-223-200 ; 4-821-000 ; 9-830-000  
TITL: PENETRATION INTO CONCRETE OF GAMMA RADIATION FROM FALLOUT, OPERATION  
PLUMBBOB,PROJECT 35.1, WEAPON TEST REPORT (U), 28 P (U)

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WT 1477

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1482  
ADNO: 611235  
AUTH: KILLIAN B.C. ; EMMONS A.H.  
CLSS: U  
CORP: FEDERAL CIVIL DEFENSE ADMINISTRATION (WASHINGTON-DC)  
DATE: 5909  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity  
DESC: Nuclear Weapon Test administration  
REPN: WT 1482  
SUJO: 4-821-000 ; 4-851-000  
TITL: FIELD RADIOLOGICAL DEFENSE TECHNICAL OPERATIONS, OPERATION PLUMBBOB,  
PROJECT 36.1, REPORT TO THE TEST DIRECTOR (U), 43 P (U)

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WT 1482

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INUM: WT 1489  
ADNO: 339501L  
AUTH: HAAS P.H. ; SHAULL J.M. ; BEHRENS W.V.  
CLSS: U (DECLASSED)  
CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.)  
DATE: 6010  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1 NUCLEAR RADIATION  
REPN: WT 1489

PROJ: 6.2A  
SHOT: PRISCILLA ; HOOD  
TSHO: LOW-ALT  
SUJO: 3-221-000  
TEMP: 45606  
TITL: EFFECT OF NUCLEAR RADIATION ON SEMICONDUCTOR DEVICES, OPERATION  
PLUMBBOB, PROJECT 6.21 (U), 20 P (SRD)

TREE: 310

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WT 1489

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copy: 1 id: 92122-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1493

ABS: Chemical dosimetry studies were made to estimate human exposures to prompt and residual radiations from nuclear detonations. They include measurements of: (1) gamma radiation from fall-out at on-stie and off-stie areas; (2) air-dose and depth-dose distribution determinations in human phantoms placed at positions calculated to receive prompt neutron and ..gamma..-radiation exposures in the dose range of medical interest (0 to 1000 rads); and (3) estimates of ..gamma.. and mixed neutron plus ..gamma.. radiation exposures that might aid in the evaluation of Japanese who survived prompt-..gamma.. exposures at Nagasaki as compared with neutron plus ..gamma.. exposures at Hiroshima. The feasibility of using direct-reading chemical dosimeters for estimating ..gamma..-ray exposures from nuclear fall-out and from prompt bomb ..gamma.. radiations was demonstrated.

ABS: The responses of single-phase dosimeters to ..gamma.. rays plus neutrons provided a useful index of the total exposure. The present estimates regarding human median lethal (LD/sub 50/) doses of whole-body ..gamma.. radiation, namely about 350 r for multidirectional exposures from fall-out and about 450 r for unidirectional prompt-..gamma.. exposures, are in accord with each other on the basis of depth-dose distribution results and integral-dose calculations. On the same basis, the LD/sub 50/ dose for a mixed neutron-..gamma.. ray exposure in equal amounts should be about 450 rads or less, depending on the relative biological effectiveness (RBE) values used for neutrons.;

GAMMA RADIATION;  
DOSIMETRY; NEUTRONS; DOSIMETRY; CHEMICAL DOSEMETERS; DEPTH DOSE DISTRIBUTIONS; FALLOUT; HIROSHIMA; INTEGRAL DOSES; LETHAL DOSES; NAGASAKI; NUCLEAR EXPLOSIONS; PHANTOMS; PROMPT GAMMA RADIATION;

ABS: PROMPT NEUTRONS; RADIATION DOSES; RBE; WHOLE-BODY IRRADIATION ASIA; BARYONS; DOSEMETERS; DOSES; ELECTROMAGNETIC RADIATION; ELEMENTARY PARTICLES; EXPLOSIONS; EXTERNAL IRRADIATION; FERMIONS; FISSION NEUTRONS; GAMMA RADIATION; HADRONS; IONIZING RADIATIONS; IRRADIATION; JAPAN; MEASURING INSTRUMENTS; MOCKUP; NEUTRONS; NUCLEONS; RADIATION DOSE DISTRIBUTIONS; RADIATION DOSES; RADIATIONS; SPATIAL DOSE DISTRIBUTIONS; STRUCTURAL MODELS

ADNO: 611249

AUTH: TAPLIN G.V. ; MALIN K.H. ; GRISWOLD M.L. ; PAGLIA D.E.

CLSS: U

CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES-CA)

DATE: 6102

DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external

DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence

DESC: test instruments nuclear radiation dosimeters radiacs

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

REPN: WT 1493

SHOT: SHASTA ; FRANKLIN PRIME ; DOPPLER

TSHO: LOW-ALT

SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 3-312-100 ; 3-312-210 ;  
4-346-000

TITL: CHEMICAL DOSIMETRY OF PROMPT AND RESIDUAL RADIATIONS FROM NUCLEAR  
DETONATIONS, OPERATION PLUMBBOB, PROJECT 37.5, REPORT TO THE TEST  
DIRECTOR (U), 34 P (U)

TREE: 910 ; 920

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WT 1493

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copy: 1 id: 92124-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1496

ADNO: 611237

AUTH: LEININGER H.V. ; LAUG E.P. ; MCCONNELL H.J. ; CHAPMAN R.D. ; KOELZ  
S.E. ; SPIHER A.T.

CLSS: U

CORP: FOOD AND DRUG ADMINISTRATION (WASHINGTON-DC), FEDERAL CIVIL DEFENSE  
ADMINISTRATION (BATTLE CREEK-MI)

DATE: 5905

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects supply food water

EFFT: NUCLEAR RADIATION ; LOCAL FALLOUT

REPN: WT 1496

TSHO: LOW-ALT

SUJO: 3-171-000

TITL: EFFECT OF FALLOUT CONTAMINATION ON PROCESSED FOODS, CONTAINERS, AND  
PACKAGING, OPERATION PLUMBBOB PROJECT 38.1-1, REPORT TO THE TEST  
DIRECTOR (U), 19 P (U)

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WT 1496

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copy: 1 id: 92127-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: WT 1500  
ADNO: 339464L  
AUTH: SIGOLOFF S.C. ; LOGIE L.C. ; BORELLA H.M. ; PICKERING J.E.  
CLSS: U (DECLASSED)  
CORP: AIR FORCE/SCHOOL OF AEROSPACE MEDICINE (BROOKS AIR FORCE BASE-TEXAS)  
DATE: 6002  
DESC: Nuclear Test Simulation Field Programs experiment design gamma  
experiments  
DESC: CHARLESTON ; EXPERIMENTAL  
DESC: test instruments nuclear radiation dosimeters radiacs  
DESC: Environmental Conditions at Nuclear Weapon Test Site weather  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity  
REPN: WT 1500  
SHOT: FRANKLIN ; WILSON ; PRISCILLA ; HOOD ; DIABLO ; KEPLER ; STOKES ;  
DOPPLER ; FRANKLIN PRIME ; SMOKY ; LAPLACE ; FIZEAU ; CHARLESTON  
TSHO: LOW-ALT  
SUJO: 1-710-000 ; 4-346-000 ; 4-820-400 ; 4-841-000  
TEMP: 51462  
TITL: RADIATION MEASUREMENTS UTILIZING THE USAF CHEMICAL DOSIMETERS,  
OPERATION PLUMBBOB, PROJECT 39.1, WEAPON TEST REPORT (U), 64 P (SRD)  
TREE: 655

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WT 1500

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copy: 1 id: 92130-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: WT 1507  
ADNO: 611264  
AUTH: RICHMOND D.R. ; WHITE C.S. ; SANCHEZ R.T. ; SHERPING F.  
CLSS: U  
CORP: LOVELACE FOUNDATION (ALBUQUERQUE-NEW MEXICO)  
DATE: 6005  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity  
DESC: Nuclear Weapon Effects on animals ionizing radiation  
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals blast shock  
DESC: Nuclear Test Simulation Field Programs experiment design medical  
REPN: WT 1507  
SHOT: SMOKY  
TSHO: LOW-ALT  
SUJO: 1-110-000 ; 1-710-000 ; 2-611-000 ; 3-311-000 ; 3-312-000 ;

4-827-000

TITL: INTERNAL ENVIRONMENT OF UNDERGROUND STRUCTURES SUBJECTED TO NUCLEAR  
BLAST. II.EFFECTS ON MICE LOCATED IN HEAVY CONCRETE SHELTERS,  
OPERATION PLUMBBOB, PROJECT 33.6, WEAPON TEST REPORT (U), 25 P (U)

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WT 1507

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copy: 1 id: 92134-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1509  
ADNO: A077508  
AUTH: SIGOLOFF S.C. ; BORELLA H.M.  
CLSS: U  
CORP: ATOMIC ENERGY COMMISSION (NEW YORK-NEW YORK)  
DATE: 5905  
DESC: CHARLESTON ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: test instruments nuclear radiation gamma  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity  
REPN: WT 1509  
SHOT: BOLTZMANN ; PRISCILLA ; DIABLO ; KEPLER ; SHASTA ; SMOKY ; FIZEAU ;  
NEWTON ; WHITNEY  
TSHO: LOW-ALT  
SUJO: 2-223-420 ; 4-341-000 ; 4-821-000  
TITL: REMOTE RADIOLOGICAL MONITORING, OPERATION PLUMBBOB, PROJECT 39.9,  
REPORT TO THE TEST DIRECTOR (U), 90 P (U)  
TREE: 651

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WT 1509

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copy: 1 id: 92136-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1510  
ABS: Plutonium air concentrations and surface and subsurface  
contamination have been measured. Detailed results are documented  
and their implications are discussed. Mathematical models,  
constructed from analysis of test data, are used to calculate the  
amounts of breathed plutonium for some extreme wind conditions.  
ADNO: 342535L  
AUTH: COWAN M.  
CLSS: SRD-1  
CORP: SANDIA CORPORATION (ALBUQUERQUE-NEW MEXICO)  
DATE: 6102  
DESC: test instruments nuclear radiation fallout debris sampling  
collectors

DESC: EXPERIMENTAL  
DESC: Nuclear weapon safety radiological  
REPN: WT 1510  
SUJO: 4-345-000 ; 4-838-100  
TEMP: C0327 ; 51469 (DTIC)  
TITL: PLUTONIUM CONTAMINATION FROM ONE-POINT DETONATION OF AN XW-25,  
OPERATION PLUMBBOB, PROGRAM 71, WEAPON TEST REPORT (U), 136 P (SRD)

TNFF: 8859

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WT 1510

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copy: 1 id: 92137-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1511

ABS: On April 24, 1957, a high-explosive detonation was employed at the Nevada Test Site to release plutonium for field study of this fissile material as a contaminant. One of four major measurement programs was a biomedical experiment which comprised exposure of animals to first deposition of plutonium oxide from the detonation cloud (acute subjects) and to the wind-induced resuspension of contamination (chronic subjects) as long as six months after original deposition. Acute subjects (26 dogs and 40 rats) were arrayed 500, 1000, and 2000 feet downwind from Ground Zero, and nine rats were flown on balloon cables positioned to intercept the cloud 500 feet from Ground Zero.

ABS: Chronic subjects (three groups of 24 dogs and 3 burros) were placed, after a rough ground-activity survey, at climatologically probable downwind segments of isopleths marking nominal contaminations of 1000, 100 and 10 microgram of plutonium per square meter. Serial sacrifices of dogs were made at 4, 5, 16, 32, 64, 128, and 161 days after detonation. Ten tissues per animal were assayed by radiochemistry and auto radiography for plutonium content. All burros received the full 161-day exposure. Ten sheep were distributed among the three field positions on the 32nd day, at which time four additional dogs were placed at the middle position (100-line). All late animals stayed until the end of the maximum exposure period.

ABS: Air samplers at the pattern of plutonium uptake was surprising in that statistically important numbers of acute and chronic animals showed significant bone burdens in an exposure situation for which lung alone was to have been the critical organ. This outcome was most unusual for acute animals sacrificed less than four hours postdetonation. In general, however, all uptakes were less than the forecast amounts. The factor of 100 difference between ground-level contamination at near and far chronic stations brought uptake differences of less than a factor of ten to indicate that airborne material accumulates along the upwind path. Air concentrations bear small if any relation to the "at foot" contamination for natural resuspension forces (wind).

ABS: An explanation is advanced for the fact that, in an experiment

designed to find time dependence in plutonium uptake, no tissues measured exhibited a correlation with exposure time, save GI tract and contents. The plutonium found in bone suggests some deviation from the pure oxide form (extremely insoluble in body fluids) and the presence of solubilizing influences either in early particulate formation or in animal lung. As yet no believable mechanism has been proposed. All autoradiography gave negative results.

ADNO: A077507  
AUTH: WILSON R.H. ; THOMAS R.G. ; STANNARD J.N.  
CLSS: U  
CORP: UNIVERSITY OF ROCHESTER (ROCHESTER-NEW YORK)  
DATE: 6102  
DESC: Nuclear weapon safety radiological  
DESC: Nuclear Weapon Environment fallout intensity contours patterns  
DESC: Nuclear Weapon Environment Fallout isotope concentrations  
DESC: EXPERIMENTAL  
REPN: WT 1511  
SUJO: 2-223-100 ; 2-225-100 ; 4-838-100  
TITL: BIOMEDICAL AND AEROSOL STUDIES ASSOCIATED WITH A FIELD RELEASE OF PLUTONIUM, OPERATION PLUMBBOB, TEST GROUP 57, PROGRAM 72 (U), 70 P (U)

TNFF: 8859

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WT 1511

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: WT 1513

ABS: As one of a series of group efforts covering studies of radiation hazard resulting from one-point detonation of a weapon containing plutonium, this report gives a correlation as determined by chemical analysis of fallout between alpha survey meter readings and plutonium concentration in the immediate area of detonation. Results of determination of apparent decrease of surface contamination with time are presented. Also described is the training of personnel in the definition of radiation hazard following such accidental detonation. Maps of the test area show monitoring results in addition to isoconcentration contours.

ADNO: 611240  
AUTH: BUTLER R.E. ; MILLER H.M.  
CLSS: U  
CORP: SANDIA CORP (ALBUQUERQUE-NM)  
DATE: 6201  
DESC: Nuclear weapon safety radiological  
DESC: EXPERIMENTAL  
DESC: test instruments nuclear radiation proton alpha heavy particle L1, 4838 L1  
REPN: WT 1513  
PROJ: PROJECT 74  
SHOT: PLUMBBOB (SERIES)

SUJO: 4-343-000 ; 4-838-100  
TITL: SURFACE ALPHA MONITORING AS A METHOD OF MEASURING PLUTONIUM FALLOUT,  
OPERATION PLUMBBOB, TEST GROUP 57, PROGRAM 74 (U), 39 P (U)

TNFF: 8859

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WT 1513

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copy: 1 id: 92140-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1541

ADNO: 360820L

AUTH: CHIMENT J.A. ; GOETZ J.L. ; FACER G.C.

CLSS: SRD-1

CORP: DEFENSE ATOMIC SUPPORT AGENCY (ALBUQUERQUE-NEW MEXICO)

DATE: 5911

DESC: EXPERIMENTAL

DESC: Nuclear Test Simulation Field Programs experiment design neutron  
experiments

DESC: Nuclear Test Simulation Field Programs experiment design gamma  
experiments

DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: test instruments nuclear radiation dosimeters radiacs

DESC: test instruments nuclear radiation neutron

DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity

REPN: WT 1541

SHOT: LAPLACE

TSHO: LOW-ALT

SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 4-342-000 ; 4-346-000 ;  
4-820-300 ; 4-820-400

TEMP: C0334 ; 51424

TITL: NEUTRON AND GAMMA RADIATION FROM SHOT LAPLACE, OPERATION PLUMBBOB,  
PROGRAM 2, WEAPON TEST REPORT (U), 40 P (SRD)

TREE: 910 ; 920

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WT 1541

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copy: 1 id: 92154-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1542

ADNO: 611247

AUTH: PICKERING J.E. ; WILLIAMS D.B. ; MELVILLE G.S. JR. ; MCDOWELL A.A. ;  
LEFFINGWELL T.P. ; ZELLMER R.W.

CLSS: U



CORP: AIR FORCE/SCHOOL OF AEROSPACE MEDICINE (BROOKS AIR FORCE BASE-TEXAS)  
DATE: 6008  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt  
REPN: WT 1542  
SHOT: WILSON ; FIZEAU  
TSHO: LOW-ALT  
SUJO: 3-312-100  
TITL: BIOLOGICAL EFFECTS OF NUCLEAR RADIATION ON THE MONKEY (MACACA  
MULATTA) TWO-YEAR EVALUATION, OPERATION PLUMBBOB, PROJECT 39.6  
(SUPPLEMENT 1), WEAPON TEST REPORT (U), 51 P (U)

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WT 1542

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1619  
ADNO: 357951L  
AUTH: BIGGER M.M. ; RINNERT H.R. ; ZAGORITES H.A.  
CLSS: C  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6103  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
external  
DESC: Cross Sections gamma  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
REPN: WT 1619  
SHOT: UMBRELLA ; WAHOO  
TSHO: UW  
SUJO: 2-223-200 ; 2-223-420 ; 3-312-210 ; 9-830-000  
TEMP: B9283 ; 45636  
TITL: SHIPBOARD RADIATION FROM UNDERWATER BURSTS, OPERATION HARDTACK,  
PROJECT 2.1 (U), 126 P (C)

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WT 1619

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copy: 1 id: 92177-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1620  
ADNO: 357955L  
AUTH: BIGGER M.M. ; GONG J.K. ; KAWAHARA F.K. ; FULLER R.K. ; MILNE W.L. ;  
COHN S.H.  
CLSS: U (DECLASSD)  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 6112  
DESC: Nuclear Test Simulation Field Programs experiment design medical  
DESC: Nuclear Weapon Environment radiation decay gamma decay  
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: EXPERIMENTAL THEORY  
DESC: Nuclear Weapon Environment fallout arrival time  
REPN: WT 1620  
SHOT: UMBRELLA ; WAHOO  
TSHO: UW  
SUJO: 2-223-200 ; 2-223-420 ; 2-225-300 ; 3-312-200 ; 4-827-000  
TEMP: B9284 ; 45721  
TITL: SHIPBOARD CONTAMINANT INGRESS FROM UNDERWATER BURSTS, OPERATION  
HARDTACK, PROJECT 2.2 (U), 128 P (C)

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WT 1620

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copy: 1 id: 92178-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1621  
ADNO: 372424L  
AUTH: EVANS E.C. III ; SHIRASAWA T.H.  
CLSS: CFRD  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN  
FRANCISCO-CALIFORNIA)

DATE: 6201  
DESC: Nuclear Weapon Phenomenology plumes spray domes  
DESC: Environmental Conditions at Nuclear Weapon Test Site weather  
DESC: test instruments nuclear radiation gamma  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology base surge  
REPN: WT 1621  
SHOT: WAHOO ; UMBRELLA ; WIGWAM ; BAKER(XRD)  
TSHO: UW  
SUJO: 2-223-200 ; 2-224-120 ; 2-224-130 ; 4-341-000 ; 4-841-000  
TEMP: B9285 ; 51440  
TITL: CHARACTERISTICS OF THE RADIOACTIVE CLOUD FROM UNDERWATER BURSTS,  
OPERATION HARDTACK, PROJECT 2.3, WEAPON TEST REPORT (U), 429 P  
(CFRD)

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WT 1621

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copy: 1 id: 92179-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1623

AUTH: HANSCOME T.D. ; ALERS P.B. ; CALDWELL P.A. ; DRACHMAN R.J. GORBICS  
S.G. ; HOLMGREN H.D. ; JONES E.C. ; PEARSE C.A. ; WADDEL R.C.  
CLSS: SRD 1  
CORP: NAVY/NAVAL RESEARCH LABORATORY (WASHINGTON-D.C.)  
DATE: 6105  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: INTERMEDIATE RANGE OBSERVATION LONG RANGE OBSERVATION STRATOSPHERIC  
OBSERVATION EXTRA STRATOSPHERIC OBSERVATION ; EXPERIMENTAL THEORY  
DESC: test instruments nuclear radiation gamma L1  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: test instruments nuclear radiation neutron L1  
REPN: WT 1623  
PROJ: 2.6  
SHOT: TEAK ; ORANGE  
TSHO: HI-ALT  
SUJO: 1-110-000 ; 1-710-000 ; 4-341-000 ; 4-342-000  
TEMP: B9287 ; 23505  
TITL: NEUTRON FLUX FROM VERY-HIGH-ALTITUDE BURSTS, OPERATION HARDTACK,  
PROJECT 2.6 (U), 92 P (SRD)  
TREE: 920

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WT 1623

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copy: 1 id: 92181-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1625  
AUTH: WHITCHER S.L. ; BUNNEY L.R. ; SOULE R.R. ; DAROZA R.A.  
CLSS: SRD 1  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA) ;  
LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)  
DATE: 6109  
DESC: TROPOSPHERIC OBSERVATION STRATOSPHERIC OBSERVATION AIRCRAFT AND  
ROCKET SAMPLING OF DEBRIS CLOUD ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity L1  
DESC: Nuclear Weapon Environment Fallout Particles physical  
characteristics L1  
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1  
DESC: Nuclear Weapon Environment Fallout Particles size distribution L9 P  
64  
DESC: Nuclear Weapon Environment fallout fractionation L1  
REPN: WT 1625  
PROJ: 2.8  
SHOT: KOA ; WALNUT ; OAK  
TSHO: SURFACE ; WATER SURFACE  
SUJO: 2-222-200 ; 2-222-300 ; 2-223-100 ; 2-223-410 ; 2-223-500 ;  
4-821-000

TEMP: B9289 ; 23506  
TITL: FALLOUT MEASUREMENTS BY AIRCRAFT AND ROCKET SAMPLING, OPERATION  
HARDTACK, PROJECT 2.8 (U), 89 P (SRD)

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WT 1625

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copy: 1 id: 92182-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: WT 1637

AUTH: CONRAD E.E. ; DOBRIANSKY B.J. ; SIMON A. ; TUCKER R.W. ; WIMENITZ  
F.N. ; CONESC.E.

CLSS: SRD 1

CORP: DIAMOND ORDNANCE FUZE LAB (WASHINGTON, DC)

DATE: 6106

DESC: Nuclear Test Simulation Field Programs experiment design aerospace  
systems L5

DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses (L1)

DESC: NUCLEAR RADIATION TRANSIENTS NUCLEAR RADIATION PERMANENT DAMAGE

DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors  
vacuum tubes dielectrics relays switches L1

REPN: WT 1637

PROJ: 6.3

SHOT: NUTMEG ; MAPLE ; HICKORY ; JUNIPER

SUJO: 1-110-000 ; 1-710-000 ; 3-162-000 ; 3-221-000 ; 3-229-000 ;  
4-829-100

TEMP: C0283 ; 23558

TITL: EFFECTS OF NUCLEAR RADIATION ON ELECTRONIC FUZE COMPONENTS AND  
MATERIALS, OPERATION HARDTACK, PROJECT 6.3 (U), 69 P (SRD)

TREE: 394

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WT 1637

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copy: 1 id: 92194-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: WT 1647

ADNO: 342537L

AUTH: DERKSEN W.L. ; CARTER J.A. ; HIRSCHMAN A. ; DELHERY G.B. ; KORBEL H.

CLSS: CFRD

CORP: NAVY/NAVAL SHIPYARD (BROOKLYN-NY)

DATE: 6009

DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: THERMAL INTERMEDIATE RANGE OBSERVATION LONG RANGE OBSERVATION ;  
EXPERIMENTAL  
DESC: Nuclear Test Simulation Field Programs experiment design materials  
L5  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear Weapon Effects materials fibers textiles L1 POPLIN SATEEN  
DESC: Nuclear Weapon Effects on animals thermal burns heating L1 SKIN  
SIMULENT  
DESC: Nuclear Test Simulation Field Programs experiment design thermal L5  
REPN: WT 1647  
PROJ: 58hto8.1 ; DASIAC holds instrumentation records  
SHOT: YELLOWWOOD ; WALNUT ; TEAK ; ORANGE  
TSHO: WATER SURFACE ; HI-ALT  
SUJO: 1-210-000 ; 1-240-000 ; 3-242-000 ; 3-313-100 ; 4-820-700 ;  
4-829-600  
TEMP: C0293 ; B3156 ; B1848 ; 23559  
TITL: EFFECTS ON MATERIALS OF THERMAL RADIATION FROM NUCLEAR DETONATIONS,  
OPERATION HARDTACK, PROJECT 8.1 (U), 40 P (SFRD)

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WT 1647

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copy: 1 id: 92203-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1648

ADNO: 339846L

AUTH: BRUBAKER R.M. ; GAUVIN H.P. ; STAIR A.T. ; CAHILL J.P. ; BAKER D.J.  
; JONES E.A. ; CARPENTER J.W.

CLSS: SRD

CORP: AIR FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MA) ; COOK  
RESEARCH LABS (MORTON GROVE, IL) ; AMERICAN SCIENCE AND ENGINEERING  
(CAMBRIDGE, MA)

DATE: 6110

DESC: Nuclear Weapon Environment Visible Output rate L1

DESC: Nuclear weapon test yield L9 P15

DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9 P15

DESC: Nuclear Weapon Environment Infrared Output source strength total  
intensity L1

DESC: Nuclear Weapon Environment Ultraviolet Output rate L1

DESC: Nuclear Weapon Environment Ultraviolet Output source strength total  
intensity L1

DESC: Nuclear Weapon Environment Visible Output source strength total  
intensity L1

DESC: TROPOSPHERIC OBSERVATION ; EXPERIMENTAL

DESC: Nuclear Test Simulation Field Programs experiment design thermal L5

DESC: Nuclear Weapon Environment Infrared Output rate L1

REPN: WT 1648

PROJ: 8.2

SHOT: YUCCA ; ORANGE ; TEAK

TSHO: HI-ALT  
SUJO: 1-310-000 ; 1-340-000 ; 1-410-000 ; 1-440-000 ; 1-510-000 ;  
1-540-000 ; 4-820-700 ; 4-835-000 ; 4-841-000  
TEMP: C0294 ; B3129 ; B1837 ; A9742 ; 35736  
TITL: THERMAL RADIATION FROM HIGH-ALTITUDE BURSTS (U), OPERATION HARDTACK,  
APRIL-OCTOBER 1958, PROJECT 8.2, 90 P, (SRD)

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WT 1648

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1650  
ADNO: 360075L  
AUTH: PARKER W.J. ; JENKINS R.J. ; INN E.C.Y.  
CLSS: SRD 1  
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)  
DATE: 6006  
DESC: Nuclear Weapon Environment Visible Output rate L1 spectrum L1 ; UV  
output rate L1 spectrum L1  
DESC: TROPOSPHERIC OBSERVATION LONG RANGE OBSERVATION ; EXPERIMENTAL  
DESC: test instruments visible L1 ; IR L9 p13  
REPN: WT 1650  
PROJ: 58ht08.4 ; DASIAC holds spectrographs for Orange and Yucca only. For  
Orange there are 2 films presumably from each of the 2 B-36 nos. 748  
and 750 altho both are marked "750". The single Yucca record is  
marked "750".  
SHOT: YUCCA ; TEAK ; ORANGE  
TSHO: HI-ALT  
SUJO: 1-420-000 ; 1-440-000 ; 1-520-000 ; 1-540-000 ; 4-382-000 ;  
4-383-000  
TEMP: C0297 ; 23512  
TITL: EARLY TIME SPECTRA OF VERY-HIGH-ALTITUDE NUCLEAR DETONATIONS,  
OPERATION HARDTACK, PROJECT 8.4 (U), 27 P (SRD)

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WT 1650

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1651 1  
AUTH: ZIRKIND R.  
CLSS: SRD  
CORP: NAVY/BUREAU OF NAVAL WEAPONS (WASHINGTON-DC)  
DATE: 6112  
DESC: Nuclear Test Simulation Field Programs experiment design optical  
radiation experiments UV visible IR L5  
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1 ORANGE

ONLY

DESC: Nuclear Weapon Environment Infrared Output source strength total  
intensity L1 ORANGE ONLY  
DESC: TROPOSPHERIC OBSERVATION ; EXPERIMENTAL  
REPN: WT 1651 1  
PROJ: 8.5A  
SHOT: TEAK ; ORANGE ; YUCCA ; KOA  
TSHO: HI-ALT ; LOW-ALT  
SUJO: 1-310-000 ; 1-320-000 ; 4-820-600  
TEMP: C0298 ; A9740 ; 39423  
TITL: NARROW-BAND INFRARED SPECTRAL IRRADIANCE OF HIGH-ALTITUDE BURSTS  
(U), OPERATION HARDTACK, PROJECT 8.5A, 52 P, (SRD)

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WT 1651 1

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copy: 1 id: 92207-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1651 2  
AUTH: ZIRKIND R.  
CLSS: SFRD  
CORP: NAVY/BUREAU OF NAVAL WEAPONS (WASHINGTON-DC)  
DATE: 6205  
DESC: Nuclear Test Simulation Field Programs experiment design optical  
radiation experiments UV visible IR L5  
DESC: Nuclear Weapon Environment Infrared Output source strength total  
intensity L1  
DESC: TROPOSPHERIC OBSERVATION NO YUCCA DATA ; EXPERIMENTAL  
DESC: test instruments IR L5  
REPN: WT 1651 2  
PROJ: 8.5B  
SHOT: KOA ; TEAK ; ORANGE ; YUCCA  
TSHO: LOW-ALT ; HI-ALT  
SUJO: 1-310-000 ; 4-383-000 ; 4-820-600  
TEMP: C0299 ; B1830 ; A9739 ; 39424  
TITL: NARROW-BAND INFRARED SPECTRAL IRRADIANCE OF HIGH-ALTITUDE BURSTS  
(U), OPERATION HARDTACK, PROJECT 8.5B, 32 P, (SFRD)

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WT 1651 2

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copy: 1 id: 92208-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1663  
ADNO: 360137L  
AUTH: MONCRIEF W.H. ; DACQUISTO M.P. ; FITZPATRICK J. ; CLAYPOOL H.A. ;  
ROTHE W.E.  
CLSS: SFRD-1

CORP: ARMY/WALTER REED ARMY MEDICAL CENTER (WASHINGTON-D.C.)  
DATE: 6109  
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE  
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity  
DESC: Nuclear Test Simulation Field Programs experiment design medical  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence  
DESC: EXPERIMENTAL  
REPN: WT 1663  
SHOT: HAMILTON ; HUMBOLDT  
TSHO: SURFACE  
SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 2-611-000 ; 3-312-100 ;  
4-827-000  
TEMP: C0308 ; 51426 ; 23557  
TITL: EFFECTS OF VERY-LOW-YIELD BURSTS ON BIOLOGICAL SPECIMENS (SWINE AND  
MICE), OPERATION HARDTACK, PROJECT 4.2, WEAPON TEST REPORT (U), 92 P  
(SFRD)

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WT 1663

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copy: 1 id: 92214-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1668  
AUTH: KOSTOFF P.C. ; STUHLINGER E. ; KAMPMEIER H.W. ; BOEHM J.  
CLSS: SRD 1  
CORP: ARMY/BALLISTIC MISSILE AGENCY (REDSTONE ARSENAL-AL)  
DATE: 6004  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1  
DESC: EXTRA STRATOSPHERIC OBSERVATION ; THEORY EXPERIMENTAL  
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped  
Radiation Particle Fluxes Space Radiation L9 P 55  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
PROJ: 58arexp4 ; DASIAAC holds instrumentation records Explorer TM tapes  
REPN: WT 1668  
SHOT: Argus 1 ; Argus 2 ; Argus 3  
TSHO: HI-ALT  
SUJO: 2-212-000 ; 2-217-000 ; 5-800-000  
TEMP: B9074 ; 23518  
TITL: SATELLITE MEASUREMENTS, OPERATION ARGUS (U), 76 P (SRD)

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WT 1668

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copy: 1 id: 92219-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent



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INUM: WT 1669  
AUTH: BEAVERS J.L. II ; ALLEN J. JR. ; DENNIS J.L. ; WELCH J.A. JR. ;  
WALTON R.B. ; WHITAKER W.A.  
CLSS: SRD 1  
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)  
DATE: 6105  
DESC: JASON EXTRA STRATOSPHERIC OBSERVATION ; EXPERIMENTAL THEORY P 65  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling  
distribution energy spectrum L1  
DESC: test instruments nuclear radiation beta electron beams L1  
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1  
REPN: WT 1669  
SHOT: ARGUS I ; ARGUS II  
TSHO: HI-ALT  
SUJO: 2-212-000 ; 2-213-000 ; 2-217-000 ; 4-344-000  
TEMP: B9075 ; 23497  
TITL: SOUNDING ROCKET MEASUREMENTS, PROJECT JASON, OPERATION ARGUS (U), 83  
P (SRD)

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WT 1669

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copy: 1 id: 92225-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1675  
AUTH: REED J.W. ; GAUVIN H.P. ; CAHILL J.P. ; GRENIER J.W. ; BAKER D.J. ;  
STAIR A.T.  
CLSS: SRD  
CORP: AIR FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MA)  
DATE: 6201  
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9 P69  
DESC: Nuclear Weapon Environment Infrared Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Nuclear Weapon Environment Visible Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1  
DESC: Nuclear weapon test yield L9 P24 P68  
DESC: Nuclear Weapon Environment Visible Output rate L1  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
DESC: Nuclear Test Simulation Field Programs experiment design optical  
radiation experiments UV visible IR L5  
DESC: Nuclear Weapon Environment Infrared Output rate L1  
DESC: Nuclear Weapon Environment Ultraviolet Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1

REPN: WT 1675  
SHOT: MAZAMA ; HAMILTON ; HUMBOLDT ; QUAY ; RIO ARRIBA ; WRANGELL ;  
RUSHMORE ; SANTA FE ; SANFORD ; SOCORRO  
TSHO: LOW-ALT  
SUJO: 1-210-000 ; 1-240-000 ; 1-310-000 ; 1-340-000 ; 1-410-000 ;  
1-440-000 ; 1-510-000 ; 1-540-000 ; 2-110-000 ; 4-820-600 ;  
4-835-000 ; 4-841-000  
TEMP: B9295 ; B1829 ; A9738 ; 35737  
TITL: THERMAL RADIATION FROM LOW-YIELD NUCLEAR BURSTS (U), OPERATION  
HARDTACK, APRIL-OCTOBER 1958, PROJECT 8.8, 108 P, (SRD)

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WT 1675

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1676  
AUTH: MAHONEY J.J. ; MALONEY J.C. ; FURROW S.D. ; KILMINSTER D.T. ;  
ALVARES N.J. ; DAHLSTROM T.S. ; ULBERG J.C.  
CLSS: CFRD 1  
CORP: CHEMICAL WARFARE LABS (EDGEWOOD MD) ; NAVAL RADIOLOGICAL DEFENSE LAB  
(SAN FRANCISCO, CA)  
DATE: 6006  
DESC: Nuclear Weapon Environment Thermal Output source strength total  
intensity L1  
DESC: Nuclear Weapon Environment Thermal Output rate L1  
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L5  
DESC: Nuclear Test Simulation Field Programs experiment design thermal L5  
DESC: CLOSE-IN OBSERVATION ; EXPERIMENTAL  
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1  
REPN: WT 1676  
PROJ: 8.7 ; 2.17D  
SHOT: QUINCE ; FIG ; HAMILTON  
TSHO: SURFACE ; LOW-ALT  
SUJO: 1-210-000 ; 1-240-000 ; 2-110-000 ; 4-820-700 ; 4-841-000  
TEMP: B9296 ; 23561  
TITL: THERMAL RADIATION FROM VERY-LOW-YIELD BURSTS, OPERATION HARDTACK,  
PROJECTS 8.7/2.12D (U), 31 P (CFRD)

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WT 1676

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1678  
AUTH: MORGENTHAU M. ; SCHUMCHYK M.  
CLSS: SRD 1  
CORP: ARMY/CHEMICAL CENTER (EDGEWOOD-MD)

DATE: 6012  
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1  
DESC: Nuclear Test Simulation Field Programs experiment design fallout  
radioactivity L5  
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1  
DESC: Nuclear Weapon Environment Fallout Particles physical  
characteristics L1  
DESC: LOCAL FALLOUT CLOSE-IN OBSERVATION ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Fallout Particles chemical composition  
solubility L1  
DESC: Nuclear Weapon Environment dust moisture injection atmosphere L1  
DESC: Nuclear Weapon Environment Fallout Radioproperties L1  
DESC: Nuclear Weapon Environment Fallout Particles L1  
REPN: WT 1678  
PROJ: 2.10  
SHOT: QUINCE ; FIG  
TSHO: SURFACE  
SUJO: 2-222-000 ; 2-222-100 ; 2-222-200 ; 2-222-300 ; 2-222-400 ;  
2-223-000 ; 2-225-100 ; 4-821-000  
TEMP: B9298 ; 23563  
TITL: RESIDUAL RADIATION FROM A VERY-LOW-YIELD BURST, OPERATION HARDTACK,  
PROJECT 2.10 (U), 56 P (SRD)

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WT 1678

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1679  
AUTH: RIGOTTI D.L. ; KINCH J.W. ; MCNEILLY J.H. ; TARBOX J.L. ; KLEIN N. ;  
PANKOW P.A. ; ADAMS T.R.  
CLSS: SRD 1  
CORP: ARMY/CHEMICAL CENTER (EDGEWOOD-MD)  
DATE: 6008  
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear  
radiation transport L1 TANKS FOXHOLE  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
DESC: CLOSE-IN OBSERVATION SURFACE OBSERVATION ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
REPN: WT 1679  
SHOT: HAMILTON ; HUMBOLDT ; FIG ; QUINCE  
TSHO: LOW-ALT  
SUJO: 1-110-000 ; 1-710-000 ; 4-140-000  
TEMP: B9299 ; 23565  
TITL: NEUTRON FLUX FROM VERY-LOW-YIELD BURSTS, OPERATION HARDTACK,  
PROJECTS 2.4A/2.11/2.12A (U), 74 P (SRD)

TREE: 920

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WT 1679

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copy: 1 id: 92232-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1681  
AUTH: GRIESMER D.R. ; BURSON Z.G. ; BAKER T.P. ; DEAN P.N.  
CLSS: SRD  
CORP: AIR FORCE/SPECIAL WEAPONS CENTER (KIRTLAND AFB-NM)  
DATE: 6010  
DESC: CLOSE IN OBSERVATION SURFACE OBSERVATION ; EXPERIMENTAL  
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1  
DESC: test instruments nuclear radiation gamma L5 TEST OF MG-3 DETECTOR  
DESC: Nuclear Weapon Environment Prompt Neutron source strength total  
fluence L1  
DESC: Nuclear Test Simulation Field Programs experiment design gamma  
experiments L5  
DESC: Nuclear Weapon Environment Initial Gamma source strength total  
intensity L1  
REPN: WT 1681  
PROJ: 2.13  
SHOT: HAMILTON  
SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 4-341-000 ; 4-820-400  
TEMP: C0309 ; B3158 ; 39427  
TITL: GAMMA RADIATION AND INDUCED ACTIVITY FROM VERY-LOW-YIELD BURSTS (U),  
OPERATION HARDTACK, PROJECT 2.13, 46 P, (SRD)  
TREE: 910 ; 920

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WT 1681

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: WT 1685  
ADNO: A995198  
AUTH: JACKS G.L. ; ZIMMERMAN G.C.  
CLSS: U  
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NEW MEXICO)  
DATE: 5910  
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra  
DESC: EXPERIMENTAL  
REPN: WT 1685  
SHOT: CACTUS ; BUTTERNUT ; KOA ; HOLLY ; YELLOWWOOD ; MAGNOLIA ; TOBACCO ;  
ROSE ; WALNUT ; LINDEN ; ELDER ; OAK ; SEQUOIA ; DOGWOOD ; PISONIA ;  
OLIVE ; PINE ; FIR ; NUTMEG ; SYCAMORE ; MAPLE ; ASPEN ; REDWOOD ;  
HICKORY ; CEDAR ; POPLAR ; JUNIPER  
TSHO: SURFACE ; WATER-SURFACE  
SUJO: 2-223-200  
TITL: RADIOLOGICAL SAFETY, OPERATION HARDTACK, REPORT TO THE SCIENTIFIC

DIRECTOR (U), 48 P (U)

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WT 1685

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created: 12/27/1991 type: REPORT permanent

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INUM: WT 1689

ADNO: 357983L

AUTH: DUCKWORTH J.W. ; CHAMBERS F.W. ; CHAPMAN W.H. ; SEVERANCE R.E.

CLSS: U (DECLASSD)

CORP: NAVY/NAVAL MEDICAL RESEARCH INSTITUTE (BETHESDA-MD)

DATE: 5906

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

REPN: WT 1689

SHOT: WAHOO

TSHO: UW

SUJO: 2-223-200 ; 4-341-000

TEMP: C0310 ; 49097

TITL: SEA-WATER RADIOLOGICAL MONITORING METHODS, OPERATION HARDTACK,  
PROJECT 40.1, WEAPON TEST REPORT (U), 70 P (C)

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WT 1689

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copy: 1 id: 92240-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1721

ADNO: 611244

AUTH: MARTIN R.B.

CLSS: U

CORP: OFFICE OF CIVIL AND DEFENSE MOBILIZATION (BATTLE CREEK-MI)

DATE: 5911

DESC: test instruments nuclear radiation dosimeters radiaes L1 FALLOUT

DOSIMETER

DESC: EXPERIMENTAL

REPN: WT 1721

SUJO: 4-346-000

TITL: EVALUATION OF AERIAL SURVEY METER V-780, OPERATION HARDTACK, PROJECT  
70.1 (U),40 P (U)

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WT 1721

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: WT 1725  
AUTH: AUXIER J.A. ; CHEKA J.S. ; SANDERS F.W.  
CLSS: U  
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN)  
DATE: 6103  
DESC: EXPERIMENTAL  
DESC: Nuclear Weapon Effects structures aboveground components L1  
EFFT: NEUTRON ; GAMMA  
REPN: WT 1725  
SHOT: MORA ; LEA ; SOCORRO  
TSHO: LOW-ALT  
SUJO: 3-251-100  
TITL: ATTENUATION OF WEAPONS RADIATION--APPLICATION TO JAPANESE HOUSES;  
OPERATION HARDTACK APRIL-OCTOBER 1958, PROGRAM 39 (U), 92 P., (U)  
TREE: 411 ; 412

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WT 1725

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copy: 1 id: 92251-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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INUM: WT 1742  
AUTH: BEHRENS W.V. ; SHAULL J.M.  
CLSS: SRD 1  
CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC)  
DATE: 6105  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes  
silicon-controlled rectifiers L1  
DESC: NEUTRON GAMMA NUCLEAR RADIATION PERMANENT DAMAGE ; EXPERIMENTAL  
REPN: WT 1742 ; DASA 53838  
PROJ: 6.3A  
SHOT: NUTMEG ; YELLOWWOOD ; MAPLE ; HICKORY  
TSHO: LOW-ALT  
SUJO: 3-221-000  
TEMP: B9305 ; 39304  
TITL: EFFECTS OF NUCLEAR RADIATION ON SEMICONDUCTOR DEVICES, OPERATION  
HARDTACK, PROJECT 6.3A (U), 24 P, (SRD)  
TREE: 310

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WT 1742

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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

INUM: WT 1830

CLASS: U  
CORP: PUBLIC HEALTH SERVICE, OFF-SITE RADIOLOGICAL SAFETY ORGANIZATION  
DATE: 6206  
REPN: WT 1830  
TITL: OFF-SITE REPORT OF THE EVENT OF MARCH 5, 1962; PROJECT DANNY BOY  
(U), 48 P., (U)

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WT 1830

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copy: 1 id: 92264-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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