

No.	Pub. Year	Citations	File Name	File Size (bytes)
4	1965-1966	914	RADBIB04.TXT	883,415

The search criteria was for radiation or radiological for publication year greater than 1964 and less than 1967.

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 EO 12958	
1st REVIEW DATE: 1 Feb 2000	EXEMPTION (Circle Numbers)
AUTHORITY: <input type="checkbox"/> AOC <input type="checkbox"/> ADC <input checked="" type="checkbox"/> ADD	1. Classification Remains Unchanged
NAME: [Handwritten]	2. Classification Changed to: UNCLASSIFIED
2nd REVIEW DATE: 29 Feb 2000	3. Downgrade No DTRA Classified into
AUTHORITY: <input type="checkbox"/> AOC <input type="checkbox"/> ADC <input checked="" type="checkbox"/> ADD	4. Coordinate With:
MAN: [Handwritten]	5. Exempt From Declassification
	6. Exemptions 1 2 3 4 5 8 7 8 0

* WITH DELETIONS.

Statement A
 Approved for public release; *
 Distribution unlimited. 29 Feb 2000
 THIS YEAR ONLY
 [Handwritten 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, 10:31 AM

Search will use the KUNI database

Search strings will be read from standard input

The catalog key will be written to standard output

19940613103130 BRS/Search-Engine v.5 started for seltext1

11379 records found for #1: RADIATION OR RADIOLOGICAL

1 searches considered

1 searches selected.

STILAS text selection finished on Monday, June 13, 1994, 10:38 AM

STILAS catalog selection v6.2 started on Monday, June 13, 1994, 10:31 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 1964 and less than 1967

11379 catalog record(s) considered

914 catalog record(s) selected.

STILAS catalog selection finished on Monday, June 13, 1994, 10:38 AM

STILAS call number selection v6.2 started on Monday, June 13, 1994, 10:31 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

914 callnum record(s) considered

914 callnum record(s) selected.

STILAS call number selection finished on Monday, June 13, 1994, 10:38 AM

STILAS item selection v6.2 started on Monday, June 13, 1994, 10:31 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

914 item record(s) considered

914 item record(s) selected.

STILAS item selection finished on Monday, June 13, 1994, 10:38 AM

Sort: sorting by CALL NUMBER

STILAS item printing v6.2 started on Monday, June 13, 1994, 10:31 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

914 catalog(s) printed.

0 catacnt(s) printed.

914 call number(s) printed.

914 item(s) printed.

0 itemacnt(s) printed.

STILAS item printing finished on Monday, June 13, 1994, 10:40 AM

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.report

.title
Bibliography

Produced Monday, June 13, 1994 at 10:31 AM

.end
INUM: 01865-285
AUTH: ADAMS J.E. ; COTTONY H.V. ; WILBER R.W.
CLSS: S
CORP: NATIONAL BUREAU OF STANDARDS (BOULDER-CO)
DATE: 6503
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
DESC: EXPERIMENTAL
EMPF: 211
REPN: DASA 76574
SHOT: STARFISH ; BLUEGILL ; KINGFISH
TSHO: HI-ALT
SUJO: 2-510-000
SYMJ: CONTAINED IN GROUND-BASED DETECTION OF HIGH-ALTITUDE NUCLEAR TESTS
(U), U.S. TECHNICAL PAPERS PRESENTED ON 26-28 MARCH 1963 AT NATIONAL
BUREAU OF STANDARDS, BOULDER, COLORADO, 451 P, (SRD)
TEMP: 37599
TITL: WIDE-FREQUENCY-BAND MEASUREMENTS OF ELECTROMAGNETIC RADIATION BY
NUCLEAR EXPLOSIONS (PRELIMINARY REPORT) (U), 15 P, (S)

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01865-285

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created: 12/27/1991 type: REPORT permanent
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INUM: 02580-7
AUTH: MORGAN P.L. ; MASSENGILL E.B. ; GORDON W.
CLSS: U
CONN: RRNU AC 105/223-1/F008-11/103
CORP: NAVY/NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE-NM)
DATE: 6504
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects ordnance L1 NEUTRONS GAMMA XRAYs
REPN: NAVWEPS REPORT 8300 VOLUME 7
SUJO: 3-160-000
TITL: BIBLIOGRAPHY ON THE VULNERABILITY OF NUCLEAR WEAPONS, NUCLEAR
RADIATION ENVIRONMENT (U), 100 P (U)
TREE: 397

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02580-7

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created: 12/27/1991 type: REPORT permanent
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INUM: 02587-3
AUTH: ANDREWS J.L.
CLSS: SRD 1
CORP: GCA CORPORATION (BEDFORD-MA)
DATE: 6503
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
REPN: GA 020 65 133
PROJ: 8.6
SUJO: 4-820-600
TEMP: 43868
TITL: EXPERIMENTAL AND REQUIREMENTS PLAN, OPERATION BLUE ROCK, PROJECT 8.6
PLAN NUMBER 3 (U), 20 P (SRD)

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02587-3
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 02821
AUTH: GRANNEMANN W.W. ; SOUTHWARD H. ; BYATT W.J.
CLSS: U
CCDE: ZZ (MONTE CARLO, CALCULATES SPREADING OF THE PROMPT GAMMA PULSE,
FREE ELECTRONS GENERATED BY PROMPT GAMMA PULSE)
CONN: AF 29 601 5976
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 6501
DESC: Simulation Facilities Techniques TREE L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 SIMULATION (FLASH X-RAY) TREE
DESC: Radiation Transport gamma L1
DESC: Radiation Transport x-ray L1
REPN: WL TR 64 123
SUJO: 3-221-000 ; 4-272-000 ; 9-620-000 ; 9-640-000
TITL: RESEARCH LABORATORY TESTING AND THEORETICAL STUDIES SUPPORTING AFWL
TREES PROGRAM (U), 246 P, (U)
TREE: 642

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02821
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created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 02930
AUTH: GENTRY R.A. ; NAKAYAMA P.I. ; THOMPSON B.E.
CLSS: SRD
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)

DATE: 6503
DESC: Nuclear Weapon Effects reentry systems RV L1 X-RAY NUCLEAR RADIATION
TRANSIENTS
DESC: Target Analysis system studies RVs L1
DESC: THEORY
REPN: LA 3261 MS
TSHO: HI-ALT
SUJO: 3-113-000 ; 3-431-210
TEMP: 43898
TITL: DETERMINATION OF THE KILL PROBABILITY TO BE EXPECTED FOR A RE-ENTRY
VEHICLE ENCOUNTERING A NUCLEAR INTERCEPTOR(U), 46 P (SRD)
TREE: 396

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 02971
AUTH: HAAVE C.R. ; ZMUDA A.J. ; SHAW B.W.
CLSS: U
CORP: JOHNS HOPKINS UNIVERSITY/APPLIED PHYSICS LABORATORY (SILVER
SPRING-MD)

DATE: 6500
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear Weapon Effects EM Propagation phase change L1 VLF
DESC: LONG RANGE OBSERVATION ; SUMMARY
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
SHOT: RUSSIAN (62-10-22) ; RUSSIAN (28 OCTOBER 1962)
TSHO: HI-ALT
SUJO: 2-213-000 ; 2-217-000 ; 2-311-000 ; 2-321-400
TITL: VLF PHASE PERTURBATIONS AND THE SOVIET HIGH-ALTITUDE NUCLEAR BURSTS
OF OCTOBER 22 AND 28, 1962, 1, OBSERVATIONS AND INFERRED RADIATION
BELTS (U), 49 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 03001
CLSS: U
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)
DATE: 6500
DESC: Cross Sections gamma L1

DESC: Cross Sections neutron L1
DESC: BIBLIOGRAPHY
REPN: ORNL RSIC 6 V 1
SUJO: 9-820-000 ; 9-830-000
TITL: ABSTRACTS OF THE LITERATURE EXAMINED BY THE RADIATION SHIELDING
INFORMATION CENTER, VOLUME I, REVISION I (U), 552 P,(U)
TREE: 150 ; 411 ; 412

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created: 12/27/1991 type: REPORT permanent
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INUM: 03087
ADNO: 458775
AUTH: BUDD E.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6502
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
REPN: USNRDL 480
SUJO: 3-312-200
TITL: INDEX TO U.S. NAVAL RADIOLOGICAL DEFENSE LABORATORY TECHNICAL
REPORTS (TR SERIES), 87 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 03158-2
ADNO: 465053L
AUTH: SULLIVAN J.M.
CLSS: U
CCDE: WRECS
CONN: DA 49 146 XZ 213
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6506
DESC: Nuclear Weapon Effects Communications Systems MF HF L1
DESC: CODE
REPN: R 65 TMP 1
SUJO: 2-322-200
TITL: WRECS-A FORTRAN II CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS
ON COMMUNICATION SYSTEMS, VOLUME II, INPUT PROCESSOR PROGRAM (IPP)
AND INPUT SELECTOR AND GENERATOR (ISAG)(U), 136 P (U)

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INUM: 03158-3
ADNO: 464053L
AUTH: SULLIVAN J.M.
CLSS: U
CCDE: WRECS
CONN: DA 49 146 XZ 213
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6506
DESC: CODE
DESC: Nuclear Weapon Effects Communications Systems MF HF L1
REPN: R 65 TMP 1
SUJO: 2-322-200
TITL: WRECS-A FORTRAN II CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS
ON COMMUNICATION SYSTEMS, VOLUME III, LOW FREQUENCY (LF) EFFECTS,
(U), 139 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 03158-4
ADNO: 465464
AUTH: SULLIVAN J.M.
CLSS: U
CCDE: WRECS
CONN: DA 49 146 XZ 213
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6506
DESC: Nuclear Weapon Effects Communications Systems MF HF L1 LF HF
DESC: CODE
REPN: R 65 TMP 1
SUJO: 2-322-200
TITL: WRECS-A FORTRAN CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS ON
COMMUNICATION SYSTEMS, (U), VOLUME 4, HF LOALT, AND HF HIALT, 219 P,
(U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 03158-5
ADNO: 464503
AUTH: SULLIVAN J.M.
CLSS: U
CCDE: WRECS
CONN: DA 49 146 XZ 213
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6506
DESC: CODE
DESC: Nuclear Weapon Effects Communications Systems MF HF L1 HF LF
REPN: R 65 TMP 1
SUJO: 2-322-200
TITL: WRECS-A FORTRAN II CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS
ON COMMUNICATION SYSTEMS, VOLUME V, SUBROUTINES: GCBAD, ACPHFX,
ELRAY, ELFX, TCON, AND OPFREQ (U), 80 P (U)

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03158-5

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created: 12/27/1991 type: REPORT permanent

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INUM: 03158-6
AUTH: SULLIVAN J.M.
CLSS: SRD
CCDE: WRECS
CONN: DA 146 XZ 213
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6506
DESC: CODE
DESC: Nuclear Weapon Effects Communications Systems MF HF L1 HF LF
REPN: R 65 TMP 1
SUJO: 2-322-200
TEMP: 47133-01
TITL: WRECS-A FORTRAN II CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS
ON COMMUNICATION SYSTEMS, VOLUME VI, SCALING RELATIONSHIPS (U),
FINAL REPORT-TECHNICAL DESCRIPTION AND DOCUMENTATION OF DIGITAL
COMPUTER CODE, 41 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 03172
AUTH: MARCUM J.I.
CLSS: SRD
CONN: AF 49 (638) 700
CORP: RAND CORPORATION (SANTA MONICA-CA)

DATE: 6505
DESC: Radiation Transport x-ray L1
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1
DESC: TABULAR
REPN: RM 4525 PR
TSHO: HI-ALT
SUJO: 1-610-000 ; 9-640-000
TEMP: 45449
TITL: CLASSIFIED TITLE (U), 11 P, (SRD)
TREE: 930

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

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INUM: 03199
ADNO: 612708
AUTH: BULLRICH K., DEBARY E., DANZER K., EIDEN R., HEGER K.
CLSS: U
CONN: AF 61 052 595
CORP: METEOROLOGISCH-GEOPHYSIKALISCHES INSTITUT DER JOHANNES
GUTENBERGUNIVERSITAT (MAINZ-GERMANY)

DATE: 6501
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1 IR
VISIBLE

DESC: THEORY TABULAR

LA: W. GERMANY

REPN: AFCRL 65 109

SUJO: 5-200-000

TITL: RESEARCH ON ATMOSPHERIC OPTICAL RADIATION TRANSMISSION (U),
SCIENTIFIC REPORT NUMBER 5, CIRCA 100 P, (U)

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

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INUM: 03251
AUTH: YAMADA H.Y.
CLSS: U
CONN: SD 91
CORP: UNIVERSITY OF MICHIGAN (ANN ARBOR-MI)
DATE: 6506
DESC: Simulation Facilities Techniques thermal optical L1
REPN: 4613 86 T
SUJO: 4-280-000

TITL: HIGH-TEMPERATURE BLACKBODY RADIATION SOURCE (U), REPORT OF BAMIRAC,
TECHNICAL REPORT, 33 P, (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 03368

ADNO: 357588

AUTH: WILLIAMS D.C. ; BOTHELL L.E.

CLSS: SRD

CONN: SD 135

CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)

DATE: 6501

DESC: Cross Sections x-ray

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

DESC: Cross Sections electron

DESC: Radiation Transport x-ray

DESC: Nuclear RDT&E Research Program Descriptions x-ray effects

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects materials plastics resins L1 TWNP

DESC: Nuclear Weapon Environment X-ray Output energy spectrum

DESC: Nuclear Weapon Effects reentry systems RV

EFFT: X-RAY

REPN: KN 684 65 17

SUJO: 1-610-000 ; 1-620-000 ; 3-113-000 ; 3-244-000 ; 4-130-000 ;

9-640-000 ; 9-840-000 ; 9-850-000

TEMP: 45824

TITL: SUMMARY OF X-RAY EFFECTS TECHNOLOGY (U), 172 P, (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03371

ADNO: 616106

AUTH: BARTON J.A., DOHERTY W.R., HAHN P.

CLSS: U

CCDE: THREAT

CONN: AF 29 601 6612

CORP: BOEING COMPANY (SEATTLE-WA), AIR FORCE/WEAPONS LABORATORY (KIRTLAND
AFB-NM)

DATE: 6505

DESC: CODE THEORY

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling

distribution energy spectrum
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
REPN: AFWL TR 65 10
TSHO: HI-ALT
SUJO: 2-211-000 ; 2-212-000 ; 2-213-000
TITL: COMPUTER PROGRAM INCORPORATING THE WHITAKER THREAT MODEL INTO THE
SPACE RADIATION ENVIRONMENT AND SHIELDING COMPUTER PROGRAM (U), 256
P (U)

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INUM: 03426
ADNO: 464712
AUTH: CASSIDY S.H.
CLSS: U
CONN: SF 011 05 11
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6503
DESC: CODE THEORY
DESC: Nuclear Weapon Environment fallout transport
DESC: Nuclear Weapon Environment fallout arrival time
DESC: Nuclear Weapon Environment fallout accumulation rate
REPN: USNRDL TR 837
SUJO: 2-224-200 ; 2-225-300 ; 2-225-400
TITL: FORTRAN COMPUTER PROGRAM FOR THE USNRDL DYNAMIC FALLOUT (D) MODEL
(U), 108 P, (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 03451
CLSS: C 1
CONN: AF 33 (657) 13013
CORP: VARIAN ASSOCIATES (PALO ALTO, CA.)
DATE: 6506
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation fallout debris sampling
collectors L1
REPN: VARIAN ENGINEERING REPT. NO. 317 3S
SUJO: 4-345-000

TEMP: 45984
TITL: HIGH ALTITUDE AIR SAMPLER DEVELOPMENT PROGRAM, SEMI-ANNUAL TECHNICAL
SUMMARY REPORT NO. 3, COVERING PERIOD 1 JANUARY 30 JUNE 1965 (U), 11
P., (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 03478
AUTH: COLLINS D.G.
CLSS: U
CCDE: LITE
CORP: RADIATION RESEARCH ASSOCIATES INCORPORATED (FORT WORTH-TX)
DATE: 6501
DESC: Radiation Transport visible L1, 52 L1
DESC: CODE
REPN: RRAN 51
SUJO: 9-630-000
TITL: LIGHT INTENSITY AND TRANSPORT EVALUATION CODE, (LITE-CODE) (U), 118
P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 03479
ADNO: 469636
AUTH: DICK C.L. ; HANSON G.H. ; ROSENBERG C. ; GAGE D.S. ; BOWMAN W.C. ;
VETICH G.W. ; DICKHAUT R.H. ; STEVENS G.G. ; LOWREY A.R.
CLSS: U
CONN: AF 29 601 6425
CORP: BOEING COMPANY (SEATTLE-WA), AIR FORCE/WEAPONS LABORATORY (KIRTLAND
AFB-NM)
DATE: 6507
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network
DESC: EXPERIMENTAL THEORY
EFFT: TREE
REPN: AFWL TR 65 105 ; D 2 90694 1
SUJO: 3-219-000
TITL: ANALYTICAL METHODS AND FUNDAMENTAL PARAMETERS FOR PREDICTING
RESPONSES OF ELECTRONIC CIRCUITS TO TRANSIENT NUCLEAR RADIATION,
WITH APPLICATION TO HARDENED CIRCUIT DESIGN (U), 274 P (U)

TREE: 330
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 03491
AUTH: VAN LINT V.A.J. ; ALEXANDER J. ; NICHOLS D.K.
CLSS: U
CCDE: ZZ (SOLUTION OF SIMULTANEOUS EQNS FORS CONCENTRATIONS OF HOLES AND
ELECTRONS OF A ONE-D SEMI CONDUCTOR)
CONN: AF 29 601 6374
CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA) AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AFB-NM)
DATE: 6507
DESC: THEORY CODE
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
EFFT: TREE
REPN: GA 6217 ; AFWL TR 65 44
SUJO: 3-221-000
TITL: SHORT-PULSED GAMMA RADIATION EFFECTS ON DYNAMIC ELECTRONIC
COMPONENTS (U), 77 P (U)
TREE: 310

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created: 12/27/1991 type: REPORT permanent
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INUM: 03497
AUTH: WALTON R.B. ; SUND R.E.
CLSS: U
CONN: AF 29 601 6358
CORP: GENERAL DYNAMICS CORPORATION/GENERAL ATOMIC DIVISION (SAN DIEGO-CA),
AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 6509
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: EXPERIMENTAL
REPN: AFWL TR 65 95 ; GA 6445
SUJO: 2-223-420
TITL: DELAYED GAMMA RAYS FROM FISSION, FINAL REPORT (U), 68 P (U)

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03497
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copy: 1 id: 39504-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03503
AUTH: GRIESINGER D.W. ; HATFIELD J.N. ; HENDRICK R.W.
CLSS: U
CCDE: OXDEP-I
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6501
DESC: Radiation Transport x-ray
DESC: Cross Sections x-ray
DESC: CODE THEORY
REPN: RM 65 TMP 6
SUJO: 9-640-000 ; 9-840-000
TITL: XDEP-I, FORTRAN II CODE FOR THE CALCULATION OF XRAY ENERGY
DEPOSITION IN A LAYERED, MULTICOMPONENT MEDIUM (U), 51 P (U)
TREE: 980

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copy: 1 id: 39507-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03504
AUTH: GRANNEMANN W.W. ; DAVIS G. ; GOLUBIEWSKI A.C.
CLSS: U
CONN: AF 29 601 6637
CORP: UNIVERSITY OF NEW MEXICO (ALBUQUERQUE-NM), AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AFB-NM)
DATE: 6508
DESC: Simulation Facilities Techniques TREE
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: EXPERIMENTAL THEORY
EFFT: TREE
REPN: AFWL TR 65 69
SUJO: 3-221-000 ; 4-272-000
TITL: DIRECTIONAL EFFECTS OF TRANSIENT RADIATION ON SEMI-CONDUCTOR DEVICES
(U), 92 P(U)
TREE: 310

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copy: 1 id: 39508-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03525
ADNO: 464880
AUTH: ROGERS G.L. ; FISHER T.M. ; PALMER D.M. ; WATSON E.E.

CLSS: U
CONN: DA 22 079 ENG 343 (NEG)
CORP: RECON INCORPORATED (TALLAHASSEE-FL)
DATE: 6505
DESC: THEORY
DESC: Nuclear Weapon Effects structures underground structures lined L1
DESC: Solid Mechanics vibration L1
REPN: 1 111
SUJO: 3-262-000 ; 9-240-000
TITL: SYSTEMS SCIENCE APPROACH TO THE STUDY OF MECHANICAL RADIATION
EFFECTS ON BURIED STRUCTURES, FINAL REPORT (U), 88 P (U)

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copy: 1 id: 39520-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03552
ADNO: 619416
AUTH: MARTIN S.B. ; HOLTON S.
CLSS: U
CCDE: ZZ (THERMAL IGNITION)
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6506
DESC: Nuclear Weapon Effects materials fibers textiles
DESC: Nuclear Weapon Effects materials wood paper cellulose films
DESC: CODE
REPN: USNRDL TR 866
SUJO: 3-242-000 ; 3-246-000
TITL: PRELIMINARY COMPUTER PROGRAM FOR ESTIMATING PRIMARY IGNITION RANGES
FOR NUCLEAR WEAPONS (U), 84 P (U)

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copy: 1 id: 39534-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03568-05
AUTH: FENN R.W. ; CANTOR I. ; PETRIW A.
CLSS: O
DATE: 6509
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
AIR, 961 L1 AIR
DESC: SUMMARY TABULAR
SUJO: 5-200-000
SYMJ: COLLECTION OF PAPERS ON THERMAL EFFECTS, PRESENTED AT THE SYMPOSIUM
AT THE FIRE SERVICE COLLEGE, DORKING, ENGLAND, 5-9 OCTOBER 1964 (U),
379 P (O)

TITL: ATMOSPHERIC TRANSMISSION OF THERMAL RADIATION (U), 30 P (O)

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copy: 1 id: 39558-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03568-07

AUTH: WILSON R.J.

CLSS: O

DATE: 6509

DESC: SUMMARY TABULAR

DESC: Radiation Transport thermal L1 AIR, 51 L1

SUJO: 9-610-000

SYMJ: COLLECTION OF PAPERS ON THERMAL EFFECTS, PRESENTED AT THE SYMPOSIUM
AT THE FIRE SERVICE COLLEGE, DORKING, ENGLAND, 5-9 OCTOBER 1964 (U),
379 P (O)

TITL: ATMOSPHERIC ATTENUATION OF THE FLUX FROM HIGH ALTITUDE WEAPONS (U),
16 P (O)

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copy: 1 id: 39560-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03568-08

AUTH: MACFARLANE C.J.

CLSS: O

DATE: 6509

DESC: Radiation Transport thermal L1 AIR, 3252 L1 THERMAL CITIES

DESC: SUMMARY

SUJO: 9-610-000

SYMJ: COLLECTION OF PAPERS ON THERMAL EFFECTS, PRESENTED AT THE SYMPOSIUM
AT THE FIRE SERVICE COLLEGE, DORKING, ENGLAND, 5-9 OCTOBER 1964 (U),
379 P (O)

TITL: SOME CONSIDERATIONS IN PREDICTING FIRES PRODUCED IN TARGETS (U), 16
P (O)

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copy: 1 id: 39561-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03568-09

AUTH: SIMMS D.L.

CLSS: O
DATE: 6509
DESC: Nuclear Weapon Effects materials wood paper cellulose films L1
THERMAL
DESC: EXPERIMENTAL
SUJO: 3-246-000
SYMJ: COLLECTION OF PAPERS ON THERMAL EFFECTS, PRESENTED AT THE SYMPOSIUM
AT THE FIRE SERVICE COLLEGE, DORKING, ENGLAND, 5-9 OCTOBER 1964 (U),
379 P (O)
TITL: ON THE SPONTANEOUS IGNITION OF CELLULOSIC MATERIALS BY RADIATION
(U), 25 P (O)

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03568-09

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copy: 1 id: 39562-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03585
ADNO: 365914
AUTH: CARPENTER J.W. ; ASHLEY L.E. ; FRANKENTHAL S.
CLSS: SRD 1
CCDE: ZZ (IR DATA ANALYSIS)
CONN: AF 19 628 4030
CORP: AMERICAN SCIENCE AND ENGINEERING INC (CAMBRIDGE-MA)
DATE: 6504
DESC: Nuclear Weapon Environment Visible Output rate L1
DESC: Nuclear Weapon Environment Infrared Output rate L1
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1 IR
DESC: SCALING ; CODE TABULAR EXPERIMENTAL THEORY
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L1 PARTITION
REPN: AFCRL 65 603 ; ASE 918
SHOT: TEAK ; ORANGE ; BLUEGILL ; YUCCA ; TIGHTROPE ; CHECKMATE ; KINGFISH
TSHO: HI ALT ; SURFACE
SUJO: 1-340-000 ; 1-440-000 ; 2-150-000 ; 2-214-000
TEMP: 47240
TITL: OPTICAL IR RADIATION FROM NUCLEAR DETONATIONS IN THE ATMOSPHERE (U),
100 P, (SRD)

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copy: 1 id: 39581-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03633
ADNO: 465853
AUTH: HERMAN R.E. ; HUTHRIE G.D.

CLSS: U
CCDE: ZZ (TRAPPED ELECTRON FLUX)
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 6506
DESC: THEORY CODE
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1,
2211 L1
REPN: AFWL TR 65 84
TSHO: HI-ALT
SUJO: 2-217-000
TITL: CODE TO PREDICT TRAPPED RADIATION RESULTING FROM A HIGH-ALTITUDE
NUCLEAR DETONATION (U), 78 P (U)

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copy: 1 id: 39592-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03666
ADNO: 364534
AUTH: ALLEN V.E. ; ARCHULETA C.E. ; GATELEY W.Y. ; HEAGERTY D.E. ; ROPER
N.J. ; SUHRKE R.V. ; VERSAW R.E. ; WESTPHAL R.B. ; WILLIAMS D.C. ;
WOOD D.E.

CLSS: SRD
CONN: SD 135
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)
DATE: 6507
DESC: Cross Sections neutron
DESC: Cross Sections x-ray L9 AIR P 40
DESC: Nuclear Weapon Effects reentry systems RV
DESC: TABULAR SUMMARY
DESC: Solid Mechanics stress-strain L9 TWNP P 57
EFFT: NUCLEAR RADIATION ; THERMAL ; X-RAY
REPN: KN 684 65 22
TSHO: HI-ALT
SUJO: 3-113-000 ; 9-230-000 ; 9-820-000 ; 9-840-000
TEMP: 47457
TITL: NEUTRON SHIELDING EFFECTIVENESS AND X-RAY EFFECTS INVESTIGATIONS (U)
65 P (SRD)

TREE: 412

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copy: 1 id: 39606-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03672
ADNO: 473772

AUTH: BELL J.E. ; CARR E.A. ; CURRO R.T. ; WALKER K.R.
CLSS: O
CONN: AF 29 601 6404
CORP: HUGHES AIRCRAFT COMPANY (FULLERTON-CA), AIR FORCE/WEAPONS LABORATORY
(KIRTLANDAFB-NM)
DATE: 6509
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: Simulation Facilities Techniques TREE
EFFT: TREE
REPN: AFWL TR 65 65
SUJO: 3-221-000 ; 4-272-000 ; 4-346-000
TITL: SIMPLIFIED TECHNIQUES FOR PREDICTING TREE RESPONSES (U), 190 P (O)
TREE: 310

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copy: 1 id: 39609-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03683-1
ADNO: 475497
CLSS: U
CONN: AF 29 601 6489
CORP: IBM CORPORATION (OWEGO-NY), AIR FORCE/WEAPONS LABORATORY (KIRTLAND
AFB, NM) 00
DATE: 6510
DESC: SIMULATION (PULSED REACTOR), NUCLEAR RADIATION TRANSIENTS. ;
EXPERIMENTAL THEORY
REPN: AFWL TR 65 101 V.1
TITL: PREDICT FINAL REPORT VOLUME 1, FINAL REPORT (U), 130 P (U)
TREE: 330

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copy: 1 id: 39616-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03683-2
ADNO: 474078
CLSS: U
CONN: AF 29 601 6489
CORP: IBM CORPORATION (OWEGO-NY), AIR FORCE/WEAPONS LABORATORY (KIRTLAND
AFB-NM) (KIRTLAND120 AFWL TR 65 101 VOL 2 AD 474078
DATE: 6510
DESC: Nuclear Weapon Effects electronic pieceparts L1 NUCLEAR RADIATION

TRANSIENTS

DESC: CODE
REPN: AFWL TR 65 101 V.2
SUJO: 3-220-000
TITL: PREDICT FINAL REPORT VOLUME 11, FINAL REPORT (U), 76 P (U)
TREE: 330

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copy: 1 id: 39617-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 03696
AUTH: SOLLFREY W.
CLSS: SRD
CORP: RAND CORPORATION (SANTA MONICA-CA)
DATE: 6510
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: nuclear test detection EMP earth current detection
DESC: SINGAPORE FANNING I ; THEORY EXPERIMENTAL
EMPF: 211 ; 212 ; 221 ; 222
REPN: RM 4710 ARPA ; SD 79
SHOT: STARFISH ; CHECKMATE ; BLUEGILL ; TIGHTROPE ; KINGFISH ; YUKON ;
HARLEM ; CHETCO ; FIR ; SYCAMORE ; MESILLA ; SWANEE ; MUSKEGON ;
BLUESTONE ; ARKANSAS ; ENCINO ; QUESTA ; SUNSET ; NAMBE ; TRUCKEE ;
OTOWI ; YESO ; TANANA ; ALMA ; DULCE ; RINCONADA ; BIGHORN ; PAMLICO
; PETIT
TSHO: HI-ALT ; LOW-ALT ; WATER-SURFACE
SUJO: 2-510-000 ; 4-914-000
TEMP: 47568
TITL: DETECTION OF HIGH-FREQUENCY ELECTROMAGNETIC PULSE RADIATION FROM
NUCLEAR EXPLOSIONS (U), 43 P (SRD)

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copy: 1 id: 39625-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 03698
ADNO: 364299L
AUTH: SCHULTZE D.P. ; SULIT R.A.
CLSS: SRD
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6505
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: TABULAR
EFFT: LOCAL FALLOUT
REPN: USNRDL TR 852
TSHO: UW
SUJO: 2-223-200 ; 3-312-210
TEMP: 47581
TTTL: ASW NUCLEAR WEAPON EFFECTS ANALYSIS FOR SACLANT (U), 87 P (SRD)

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copy: 1 id: 39627-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03705
ADNO: 364264L
AUTH: SPOTTS R.L. ; BREVDY J. ; PERRINE R.T.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO-CA)
DATE: 6504

DESC: Nuclear Weapon Effects structures hard launch sites structures L1,
3123 L1, 3115 L1, 3252 L1 CITIES, 3314 L1

DESC: BLAST AND SHOCK, THERMAL ; TABULAR

REPN: USNRDL 482

TSHO: LOW-ALT, SURFACE

SUJO: 3-116-100

TEMP: 47579

TTTL: TARGET VULNERABILITY STUDIES, HANDBOOK NUMBER TWO CONSTRUCTION
BATTALION CENTER, PORT HUENEME (U), 445 P (C)

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copy: 1 id: 39632-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03706
ADNO: 364423L
AUTH: SPOTTS R.L. ; BREVDY J. ; PERRINE R.T.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO-CA)
DATE: 6506

DESC: TABULAR

DESC: Target Analysis cities L1

DESC: Nuclear Weapon Effects structures aboveground cities

DESC: Nuclear Weapon Effects on animals RF microwave

DESC: Nuclear Weapon Effects structures airfields

DESC: Nuclear Weapon Effects structures shipyards harbors

EFFT: THERMAL ; AIRBLAST

REPN: USNRDL 489

TSHO: LOW-ALT
SUJO: 3-115-000 ; 3-123-000 ; 3-252-000 ; 3-314-000 ; 3-434-000
TEMP: 47580
TITL: TARGET VULNERABILITY STUDIES, HANDBOOK NUMBER NINE CONSTRUCTION
BATTALION CENTER GULFPORT (U), 513 P (C)

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

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INUM: 03720
AUTH: DAMATO R.
CLSS: U
CONN: DA 23 072 AMC 293 X
CORP: KAMAN AVIDYNE (BURLINGTON-MA), ARMY/BALLISTIC RESEARCH LABS
(ABERDEEN-MD)

DATE: 6506
DESC: SURVEY
DESC: Nuclear Weapon Effects missile systems ABM
EFFT: AIRBLAST ; THERMAL ; INTEGRATED
REPN: TR 33

TSHO: LOW-ALT

SUJO: 3-112-200

TITL: ANALYSIS OF IN-FLIGHT INTERCEPTOR MISSILE VULNERABILITY TO BLAST AND
THERMAL RADIATION DESCRIPTION OF THE PROBLEM AND PRESENT
STATE-OF-THE-ART (U), 57 P (U)

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copy: 1 id: 39641-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03743-1
ADNO: 625115
AUTH: COLLINS D.G. ; WELLS M.B.
CLSS: U
CONN: DA 28043 AMC 00240 E
CORP: RADIATION RESEARCH ASSOCIATES INC (FORT WORTH-TX)
DATE: 6508

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
GROUND REFLECTION CLOUDY ATMOSPHERE

DESC: Radiation Transport visible

DESC: THEORY

REPN: ECOM 00240 F VOL 1 ; RRA T54 1

SUJO: 5-200-000 ; 9-630-000

TITL: MONTE CARLO CODES FOR STUDY OF LIGHT TRANSPORT IN THE ATMOSPHERE,
VOLUME 1, DESCRIPTION OF CODES, FINAL REPORT (U), 90 P (U)

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copy: 1 id: 39653-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03743-2

ADNO: 625116

AUTH: COLLINS D.G. ; WELLS M.B.

CLSS: U

CCDE: LITEI ; LITE II

CONN: DA 28 043 AMC 00240 E

CORP: RADIATION RESEARCH ASSOCIATES INC (FORT WORTH-TX)

DATE: 6508

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air

DESC: CODE 7090)

DESC: Radiation Transport visible

REPN: RRA T 54 11 ; ECOM 00240 F VOL 2

SUJO: 5-200-000 ; 9-630-000

TITL: MONTE CARLO CODES FOR STUDY OF LIGHT TRANSPORT IN THE ATMOSPHERE,
VOLUME 11, UTILIZATION INSTRUCTIONS, FINAL REPORT (U), 183 P (U)

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copy: 1 id: 39654-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03752

ADNO: 461525

AUTH: DEGROOT J.S. ; FRANK R.M. ; STEWART H.S.

CLSS: U

CONN: AF 33 (657) 13599

CORP: E.H. PLESSET ASSOCIATES INC (SANTA MONICA-CA)

DATE: 6501

DESC: Meteorology

DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow

fluorescence

DESC: THEORY

DESC: nuclear test detection atmospheric fluorescence detection

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air

DESC: Radiation Transport visible

TSHO: HI-ALT

SUJO: 2-214-000 ; 4-918-000 ; 5-200-000 ; 5-500-000 ; 9-630-000

TITL: EFFECTS OF CLOUDS ON X-RAY INDUCED FLUORESCENT LIGHT FROM A NUCLEAR
BURST IN SPACE (U), 62 P (U)

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copy: 1 id: 39661-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 03784-2-15
AUTH: AUERBACH P.B.
CLSS: SRD-1
CORP: AMERICAN BOSCH ARMA CORP (GARDEN CITY-NY)
DATE: 6511
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems computers memory
EFFT: TREE
REPN: 4613 121 X II, AD 368601
SUJO: 3-212-000
SYMJ: AMRAC PROCEEDINGS, VOLUME XIII, PART II, MEETING OF 15, 16, 17
NOVEMBER 1965, MONTEREY, CALIFORNIA (U)
TITL: SYSTEMS APPROACH TO DIGITAL COMPUTER RESISTANCE TO NUCLEAR RADIATION
(U), 13 P(SRD)
TREE: 341

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copy: 1 id: 39688-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 03804
ADNO: 368802L
AUTH: HUNTER R.K.
CLSS: SRD
CCDE: NAG
CONN: AF 29 601 6383
CORP: E.H. PLESSET ASSOCIATES INC (SANTA MONICA-CA)
DATE: 6512
DESC: Cross Sections neutron
DESC: Nuclear Weapon Environment Initial Gamma
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments
DESC: Cross Sections gamma
DESC: Nuclear Weapon Environment Prompt Neutrons
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments
DESC: THEORY EXPERIMENTAL CODE
REPN: AFWL TR 65 108
SHOT: GUMDROP ; MARSHMALLOW
TSHO: UG-CONTAINED ; LOW-ALT ; HI-ALT
SOCE: DEV-7 ; DEV-8 ; DEV-4
SUJO: 1-100-000 ; 1-700-000 ; 4-820-300 ; 4-820-400 ; 9-820-000 ;
9-830-000
TEMP: 47851

TITL: GUMDROP NEUTRON AND GAMMA RAY RADIATION BACKGROUNDS, FINAL REPORT
(U), 106 P (SRD)

TREE: 910 ; 920

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copy: 1 id: 39702-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03822

AUTH: LIPSKA A.E. ; PARKER W.J.

CLSS: U

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

DATE: 6511

DESC: ignition flammability ablation L1 CELLULOSE

DESC: Simulation Facilities Techniques thermal optical

DESC: EXPERIMENTAL

REPN: USNRDL TR 928

SUJO: 4-280-000 ; 9-730-000

TITL: KINETICS OF THE PYROLYSIS OF CELULOSE OVER THE TEMPERATURE RANGE 250
DEGREES C-300 DEGREES C (U), 30 P (U)

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copy: 1 id: 39717-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03880

AUTH: HATCHER C.R.

CLSS: U

CORP: E G + G INC (SANTA BARBARA-CA)

DATE: 6510

DESC: test instruments nuclear radiation L1

DESC: Simulation Facilities Techniques TREE L1

REPN: EGG 1183 2048 ; S 298 R

SUJO: 4-272-000 ; 4-340-000

TITL: EG&G-AEC LINEAR ACCELERATOR ACTIVITY FY 1963 THROUGH FY 1968 (U), 16
P (U)

TREE: 642

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copy: 1 id: 39741-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03887-2
AUTH: MENKES S.B. ; ELLINGTON L. ; KESSELMAN R. ; JANKOWSKI F.J. ; WELLS
D. ; NORDIOA. ; WEINSTEIN M. ; GRAY J. ; BENSON W.R. ; GREGORITS J.
; PADALINO J. ; SELVIN G. ; BRENDER N. ; HARMANN N. ; ROBINSON W. ;
BAER J.
CLSS: SRD
CCDE: DTK
CORP: ARMY/PICATINNY ARSENAL (DOVER-NJ)
DATE: 6508
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Nuclear Weapon Effects electronic pieceparts solar cells
DESC: Nuclear Weapon Effects ordnance bombs mines warheads
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Effects space systems
DESC: Nuclear weapon test yield
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: Cross Sections neutron L1 URANIUM
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: THEORY CODE TABULAR
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network
EFFT: NUCLEAR RADIATION ; TREE
REPN: TR 3240 VOL 2
TSHO: HI-ALT
SOCE: DEV-9 ; DEV-8 ; DEV-1 ; DEV-12
SUJO: 1-110-000 ; 1-120-000 ; 1-710-000 ; 1-740-000 ; 3-114-000 ;
3-161-000 ; 3-219-000 ; 3-221-000 ; 3-223-000 ; 3-229-000 ;
3-312-100 ; 4-835-000 ; 9-820-000
TEMP: 47910-2
TITL: ANTI-SATELLITE STUDY PHASE 1 PROGRESS REPORT, VOLUME 11 (U), 282 P
(SRD)

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03887-2

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copy: 1 id: 39745-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03888
AUTH: MENKES S.B. ; ELLINGTON L. ; KESSELMAN R. ; JANKOWSKI F.J. ;
WEINSTEIN M. ; GRAY J. ; BENSON W.R. ; GREGORITS J. ; SLEVIN G. ;
HARTMANN N.
CLSS: SRD
CORP: ARMY/PICATINNY ARSENAL (DOVER-NJ)
DATE: 6508

DESC: Nuclear Weapon Effects space systems
DESC: Nuclear Weapon Effects ordnance bombs mines warheads
DESC: Nuclear weapon test yield
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: SURVEY TABULAR
EFFT: BOMB DEBRIS ; X-RAY ; NUCLEAR RADIATION
REPN: TR 3244
TSHO: HI-ALT
SOCE: DEV-8 ; DEV-1 ; DEV-12 ; DEV-9
SUJO: 1-120-000 ; 3-114-000 ; 3-161-000 ; 4-835-000
TEMP: 47909
TITL: ANTI-SATELLITE STUDY-PRELIMINARY INVESTIGATION OF LETHAL EFFECTS
(U), 150 P (SRD)

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

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INUM: 03983
AUTH: THOMAS D.M.C.
CLSS: U
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON-ENGLAND-U.K.)
DATE: 6502
DESC: test instruments nuclear radiation fallout debris sampling
collectors L1 ROLLER COASTER
LA: UK
REPN: AWRE O 7/65
SUJO: 4-345-000
TITL: EVALUATION OF CASCADE IMPACTORS DURING OPERATION ROLLER COASTER (U),
16 P (U)

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03983

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copy: 1 id: 39784-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 03984
ABS: In the operation Roller Coaster experiments some samples of
deposited particulate material were collected in trays filled with
distilled water for solubility studies by the UK team.
AUTH: BALLANCE A.P. ; WELLS B.J.
CLSS: U
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON-ENGLAND-U.K.)
DATE: 6502
DESC: Nuclear weapon safety radiological
DESC: EXPERIMENTAL
LA: UK

REPN: AWRE O 11/65
SHOT: CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3
TSHO: SURFACE
SUJO: 4-838-100
TITL: SOLUBILITY OF THE PLUTONIUM CONTENT OF PARTICULATE MATERIAL
COLLECTED DURING OPERATION ROLLER COASTER (U), 6 P (U)

TNFF: 8859

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03984

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copy: 1 id: 39785-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 03999

ABS: Measurements were made of the particle size distributions of the aerosols produced in the Roller Coaster experiments for two reasons. Firstly, so that the respirable fractions of the total air concentrations at the locations of the animals and at other points on the array of samplers might be determined and, secondly, to provide source distributions for use with the cloud model to enable predictions of the deposition, particle size distributions and air concentrations downwind to be made. Two methods were used in the experimental programme to obtain yield data for the distributions.

ABS: The first was the use of cascade impactors which, provided it can be shown that the whole size range present was adequately sampled by the instruments, allows the description of the distribution of plutonium or uranium in terms of the equivalent aerodynamic diameter at unit density for that part of the aerosol below 12 microns in size. The second method used, the so-called special particulate studies, consisted of the examination by means of autoradiography, microscopy and radio-chemical analysis of particles selected from those found on impactor slides and deposition collectors. This method leads to a description of the distribution of the real sizes of particles which are larger than 2 microns in diameter, the minimum size which could be selected conveniently.

ABS: Because only an unknown fraction of the particulate can be analysed by this method, to obtain the overall size distribution it is necessary to normalise the results of the special particulate analysis to the results of the impactor analysis.

AUTH: FRIEND J.P. ; THOMAS D.M.C.

CLSS: U

CORP: ISOTOPES INC (WESTWOOD-NJ), ATOMIC WEAPONS RESEARCH ESTABLISHMENT
(ALDERMASTON-ENGLAND U.K.)

DATE: 6502

DESC: Nuclear weapon safety radiological

DESC: CLOSE IN OBSERVATION, SURFACE OBSERVATION ; EXPERIMENTAL THEORY

REPN: AWRE O 20/65

SHOT: CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3 ; DOUBLE TRACKS

TSHO: SURFACE

SUJO: 4-838-100

TITL: DETERMINATION OF THE PARTICLE SIZE DISTRIBUTION OF THE PARTICULATE

MATERIAL COLLECTED DURING THE DOUBLE TRACKS AND CLEAN SLATE I EVENTS
OF OPERATION ROLLER COASTER (U), 34 P (U)

TNFF: 8859

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03999

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copy: 1 id: 39794-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04107

ADNO: 367354

AUTH: HAND G.L. ; MAZZOLA C.J. ; PIACSEK S.A. ; PROUD J.M. ; WINSTON A.W.

CLSS: SRD

CONN: AF 33 (657) 13958

CORP: IKOR INCORPORATED (WALTHAM-MASSACHUSETTS)

DATE: 6509

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

DESC: THEORY EXPERIMENTAL SURVEY

DESC: nuclear test detection geomagnetic perturbation detection

DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations

REPN: I 111 BFR

SHOT: STARFISH ; CHECKMATE ; KINGFISH ; BLUEGILL ; RUSSIAN (62-10-22) ;
RUSSIAN (62-10-28)

TSHO: HI-ALT

SUJO: 2-530-000 ; 4-910-300 ; 5-800-000

TEMP: 49303

TITL: ANALYSIS OF GEOELECTROMAGNETIC DISTURBANCES CREATED BY HIGH ALTITUDE
NUCLEAR DETONATIONS (U), 127 P (SRD)

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04107

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copy: 1 id: 39845-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04140-1

ADNO: 479617

AUTH: ZERBY C.D. ; AGRESTA J.

CLSS: U

CCDE: PHOTRAN

CONN: AF 29 (601) 6731

CORP: UNION CARBIDE CORPORATION (TARRYTOWN-NEW YORK) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)

DATE: 6603

DESC: Radiation Transport gamma

DESC: Cross Sections gamma

DESC: Radiation Transport x-ray

DESC: TABULAR CODE THEORY
DESC: Cross Sections x-ray
REPN: AFWL TR 65 171 (I) ; UCRI 316
SUJO: 9-620-000 ; 9-640-000 ; 9-830-000 ; 9-840-000
TITL: PHOTRAN A GENERAL PURPOSE PHOTON TRANSPORT PROGRAM IN COMPLEX
GEOMETRY, VOLUME I, THEORY AND USERS MANUAL (U), 284 P (U)

TREE: 960

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04140-1

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copy: 1 id: 39865-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04140-2

ADNO: 480163

AUTH: ZERBY C.D. ; AGRESTA J. ; LADD D.E. ; TAYLOR R.W. ; CURRIE C. ;
MAROTTA C.R.

CLSS: U

CONN: AF 29 601 6731

CORP: UNION CARBIDE RESEARCH INSTITUTE (TARRYTOWN-NY)

DATE: 6603

DESC: CODE

DESC: Radiation Transport gamma L1

DESC: Radiation Transport x-ray L1

REPN: AFWL TR 65 171 (II) ; UCRI 316

SUJO: 9-620-000 ; 9-640-000

TITL: PHOTRAN, A GENERAL PURPOSE PHOTON TRANSPORT PROGRAM IN COMPLEX
GEOMETRY (U), VOLUME II, DETAILED PROGRAM DESCRIPTION, 516 P (U)

TREE: 960

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copy: 1 id: 39866-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04141

AUTH: LANNING W.D. ; TORREY M.D. ; ZESSOULES N.A. ; JAMIESON C.P. ; ROGERS
J.C.W.

CLSS: SRD-1

CONN: DA 19 020 AMC 00340 (X)

CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MASSACHUSETTS)

DATE: 6510

DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray

DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature

Density Particle Velocities

DESC: Radiation Transport x-ray

DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry

general descriptions

DESC: Fluid Mechanics hydrodynamics
DESC: Nuclear Weapon Environment Visible Output angular distribution
DESC: THEORY TABULAR EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates
REPN: TO B 65 105
SHOT: BLUEGILL ; KINGFISH ; TIGHTROPE ; CHECKMATE ; SLEIGH RIDE ; BLUEGILL
; KINGFISH
TSHO: HI-ALT
SUJO: 1-430-000 ; 2-110-000 ; 2-130-000 ; 2-211-000 ; 2-311-000 ;
2-312-400 ; 9-410-000 ; 9-640-000
TEMP: 49358
TITL: THEORETICAL STUDY OF HIGH-ALTITUDE NUCLEAR EXPLOSIONS USING
NUMERICAL SIMULATION TECHNIQUES (U), 149 P (SRD)

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04141
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copy: 1 id: 39868-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04144
ADNO: 624041
AUTH: AUSMAN G.A.JR. ; WIMENITZ F.N.
CLSS: U
CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.)
DATE: 6509
DESC: TABULAR
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Radiation Transport neutron
REPN: TR 1305
TSHO: HI-ALT
SUJO: 1-120-000 ; 1-140-000 ; 9-650-000
TITL: TIME-DEPENDENT NEUTRON TRANSPORT FROM A POINT ISOTROPIC SOURCE AT AN
ALTITUDE OF 100,000 FEET (U), 303 P (U)
TREE: 970

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04144
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copy: 1 id: 39869-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04150
AUTH: KOPP H.J. ; LEATHRUM J.F.
CLSS: U
CCDE: STRIPPER
CORP: ARMY/PICATINNY ARSENAL (DOVER-NEW JERSEY)

DATE: 6501
DESC: THEORY CODE
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity
DESC: Nuclear Weapon Environment X-ray Output rate
DESC: Radiation Transport x-ray
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray
REPN: TM 1435 ; 1435
SUJO: 1-610-000 ; 1-640-000 ; 2-312-400 ; 9-640-000
TITL: X-RAY PROPAGATION THROUGH THE ATMOSPHERE (U), 83 P (U)
TREE: 980

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04150

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copy: 1 id: 39872-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04152
ADNO: 629721
AUTH: REIDY W.P. ; SINNAMON G.F. ; RUBY P.R.
CLSS: U
CONN: AF 19 (628) 2814 (OAR)
CORP: AIR FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MASSACHUSETTS) ;
AMERICAN SCIENCE AND ENGINEERING INCORPORATED
(CAMBRIDGE-MASSACHUSETTS)

DATE: 6511
DESC: ionospheric properties during storms disturbances
DESC: EXPERIMENTAL THEORY
DESC: test instruments EM propagation atmospheric chemistry direct probes
DESC: test instruments nuclear radiation beta electron beams
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation
REPN: AFCRL 65 856 ; ASE 1125
SUJO: 4-327-000 ; 4-344-000 ; 5-720-000 ; 5-800-000
TITL: MEASUREMENTS OF LOW ENERGY ELECTRON PRECIPITATIONS ASSOCIATED WITH
AURORAL DISTURBANCES AND TRAPPED RADIATION BELTS (U), 134 P (U)

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04152

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copy: 1 id: 39874-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04186
ADNO: 624857
AUTH: IRRE E.W. ; KING K.M. ; WALKER B.R. ; EGEBERG L.E.
CLSS: U
CONN: N 228 (62479) 59902
CORP: ZIMNEY CORPORATION (MONROVIA-CALIFORNIA) ; NAVY/NAVAL RADIOLOGICAL

DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)

DATE: 6508
DESC: test instruments nuclear radiation beta electron beams
DESC: test instruments nuclear radiation gamma
REPN: USNRDL TR 914
SUJO: 4-341-000 ; 4-344-000
TITL: HYDRA PROGRAM, A SHORT-RANGE TELEMETERING ROCKET FOR MEASUREMENT OF
UNDERWATER-NUCLEAR-BURST PLUME RADIATION (U), 49 P (U)

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04186

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copy: 1 id: 39891-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04211
ADNO: 358595
AUTH: MEHLHORN H.A. ; KAFALAS P. ; KOFSKY I.L.
CLSS: U
CONN: AF 29 (601) 6278
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO) ;
TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MASSACHUSETTS)

DATE: 6501
DESC: EXPERIMENTAL THEORY
DESC: Cross Sections x-ray
DESC: Cross Sections electron
DESC: Simulation Facilities Techniques x-ray effects
DESC: test instruments nuclear radiation dosimeters radiacs
REPN: WL TR 64 114 ; TO B 64 75
SUJO: 4-231-000 ; 4-346-000 ; 9-840-000 ; 9-850-000
TEMP: 49554
TITL: ELECTRON BEAM EXPERIMENTS (U), 72 P (S)

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04211

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copy: 1 id: 39915-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04213
ADNO: 367641L
AUTH: GIBBONS M.G.
CLSS: SRD-1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6508
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity
DESC: Nuclear Weapon Effects animals
DESC: Nuclear Weapon Effects on plants thermal

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
ARRIVAL TIME
DESC: TABULAR SURVEY THEORY
DESC: Target Analysis cities L1
DESC: Target Analysis civilians population at risk casualties L1
DESC: Nuclear Weapon Effects structures aboveground components
REPN: USNRDL TR 900
TSHO: SURFACE ; LOW-ALT
SUJO: 1-210-000 ; 1-710-000 ; 2-611-000 ; 3-251-100 ; 3-310-000 ;
3-333-000 ; 3-433-000 ; 3-434-000 ; 5-200-000
TEMP: 49556
TITL: CRITERIA FOR ESTIMATING STRUCTURAL DAMAGE AND PERSONNEL CASUALTIES
FROM NUCLEAR WEAPON EFFECTS (U), 99 P (SRD)

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04213
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04214
ADNO: 367332L
AUTH: SCHULTZ D.F.
CLSS: SRD-1
CONN: AF 49 (638) 1590
CORP: ISOTOPES INCORPORATED (WESTWOOD-NEW JERSEY)
DATE: 6508
DESC: Nuclear weapon test yield
DESC: test instruments nuclear radiation fallout debris sampling
collectors
DESC: Environmental Conditions at Nuclear Weapon Test Site weather
DESC: Environmental Conditions at Nuclear Weapon Test Site topography
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity
DESC: nuclear test detection debris fallout
SHOT: DILUTED WATERS ; SILVER BELL ; TINY TOT ; GUMDROP ; PALANQUIN ;
BUTEO ; WAGTAIL
TSHO: UG-CONTAINED
SUJO: 2-223-410 ; 4-345-000 ; 4-821-000 ; 4-835-000 ; 4-841-000 ;
4-843-000 ; 4-919-000
TEMP: 49548
TITL: CLASSIFIED TITLE (U), 209 P (SRD)

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04214
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copy: 1 id: 39917-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04234
AUTH: BENNETT E.W.
CLSS: U
CONN: W 7405 ENG 36 (AEC)
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NEW MEXICO)
DATE: 6511
DESC: nuclear test detection atmospheric fluorescence detection
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray
DESC: TABULAR
REPN: LA 3439 MS
TSHO: HI-ALT
SUJO: 2-214-000 ; 2-312-400 ; 4-918-000
TITL: GRAPHS OF CALCULATIONS OF ENERGY DEPOSITION AND AIR FLUORESCENCE
FROM RADIATION PRODUCED BY A NUCLEAR EXPLOSION IN SPACE (U), 53 P
(U)

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04234
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copy: 1 id: 39931-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04265
AUTH: HILL T.W. ; RUDLIN L.
CLSS: U
CORP: NAVAL ORDNANCE LABORATORY (WHITE OAK, MD)
DATE: 6603
DESC: Directed Energy Weapons Lasers Applications High-intensity radiation
field generation L1
DESC: EXPERIMENTAL
DESC: Simulation Facilities Techniques EM propagation atmospheric
chemistry high-altitude phenomenolgy
REPN: NOLTR 65 152
SUJO: 3-616-750 ; 4-220-000
TITL: EXPLORATORY EXPERIMENTS ON LASER EXPLOSIONS IN PSEUDO-AIR (U), 28 P
(U)

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04265
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copy: 1 id: 39951-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04305

AUTH: COLEMAN G.H. ; HICKS H.G. ; MISKEL J.A.
CLSS: U
CONN: W 7405 ENG 48 (AEC)
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6605
DESC: Nuclear Weapon Environment fallout down fraction
DESC: SUMMARY
DESC: Nuclear Weapon Environment radiation decay
REPN: UCRL 14864
SUJO: 2-223-400 ; 2-225-200
TITL: FALLOUT-FIELD PREDICTIONS AND INTERPRETATIONS AND THE NORMALIZATION
FACTOR (U), 2 P (U)

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04305

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copy: 1 id: 39973-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04306-1

AUTH: SPOTTS R.L. ; BREVDY J. ; PERRINE R.T. ; ARVESEN J.N.

CLSS: U

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

DATE: 6603

DESC: Nuclear Weapon Effects on animals ionizing radiation

DESC: Nuclear Weapon Effects structures shipyards harbors

DESC: Nuclear Weapon Environment fallout intensity contours patterns

DESC: SUMMARY

REPN: USNRDL TM 161

SUJO: 2-225-100 ; 3-123-000 ; 3-312-000

TITL: INTERPRETATION OF THE TVS HANDBOOK, V. I EXPLANATION OF THE TVS
MODEL OUTPUT(U), 54 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04306-2

AUTH: SPOTTS R.L. ; BREVDY J. ; PERRINE R.T. ; ARVESEN J.N.

CLSS: C-3

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

DATE: 6604

DESC: TABULAR

DESC: Nuclear Weapon Effects structures aboveground components

DESC: Nuclear Weapon Effects animals

DESC: Nuclear Weapon Environment fallout intensity contours patterns

DESC: Nuclear Weapon Effects electrical mechanical power generation
DESC: Target Analysis civilians population at risk casualties L1
DESC: Target Analysis cities L1
REPN: USNRDL TM 161
TSHO: SURFACE
SUJO: 2-225-100 ; 3-232-000 ; 3-251-100 ; 3-310-000 ; 3-433-000 ;
3-434-000
TEMP: B8586
TITL: INTERPRETATION OF THE TVS HANDBOOKS, VOL. II SUPPLEMENTARY MATERIALS
FOR DAMAGE ASSESSMENT (U), 150 P (C)

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04306-2

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copy: 1 id: 39975-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04307
AUTH: SPILLMAN G.R. ; DEBORDE G.E. III ; LAMBERTO P.J. ; HAVENS M.L. ;
GARNER J.W.
CLSS: SRD CNWDI
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6605
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity
DESC: Nuclear Weapon Environment X-ray Output rate
DESC: Nuclear Weapon Environment X-ray Output energy spectrum
DESC: THEORY TABULAR
DESC: Radiation Transport x-ray
REPN: AFWL TR 66 43
SOCE: DEV-23 ; DEV-24
SUJO: 1-610-000 ; 1-620-000 ; 1-640-000 ; 9-640-000
TEMP: 49760
TITL: TWO RADIATION TRANSPORT CALCULATIONS OF NUCLEAR WEAPON OUTPUT (HB1
AND HB2) (U), 37 P (SRD)

TREE: 930

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04307

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copy: 1 id: 39976-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04311
AUTH: LOUGHRAN E.D.
CLSS: CRD-1
CONN: W 7405 ENG 36 (AEC)
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NEW MEXICO)
DATE: 6603
DESC: Nuclear Test Simulation Field Programs experiment design materials

DESC: Nuclear Weapon Effects ordnance explosives
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
REPN: LA 3502
SHOT: SMALLBOY
TSHO: SURFACE
SUJO: 1-110-000 ; 1-710-000 ; 3-163-000 ; 4-829-600
TEMP: 49762
TITL: EFFECTS OF A PULSE OF NUCLEAR RADIATION ON ORGANIC EXPLOSIVES (U),
21 P (CRD)

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04311

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copy: 1 id: 39980-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04314
ADNO: 633974
AUTH: DRUMMOND W.E. ; MALMBERG J.H. ; AAMODT R.E. ; BOOK D.L. ; CARLSON N.
; CHANG D.B. ; ELDRIDGE O.C. ; GARDNER C.S. ; ROSENBLUTH M.N. ;
ROSTOKER N. ; STURROCK P.A. ; WHARTON C.B.
CLSS: U
CONN: AF 29 (601) 5338 ; AF 29 (601) 6366
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO) ;
GD/GENERALATOMIC DIVISION (SAN DIEGO-CALIFORNIA)
DATE: 6605
DESC: Radiation Transport
DESC: Simulation Facilities Techniques EM propagation atmospheric
chemistry high-altitude phenomenolgy
DESC: THEORY EXPERIMENTAL
REPN: AFWL TR 65 190 ; GA 6776
SUJO: 4-220-000 ; 9-600-000
SYMJ: DYNAMICS CORPORATION, SAN DIEGO, CALIFORNIA
TITL: STUDY OF PLASMA TURBULENCE (U), 265 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04317
ADNO: 477432
AUTH: VAN ALLEN J.A.
CLSS: U
CONN: NONR 1509 (06)

CORP: STATE UNIVERSITY OF IOWA (IOWA CITY-IOWA)
DATE: 6512
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: SATELLITE (INJUN 1) SATELLITE (INJUN 3) ; EXPERIMENTAL
DESC: test instruments nuclear radiation beta electron beams
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
REPN: 65 43
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-212-000 ; 2-217-000 ; 4-344-000
TITL: SPATIAL DISTRIBUTION AND TIME DECAY OF THE INTENSITIES OF
GEOMAGNETICALLY TRAPPED ELECTRONS FROM THE HIGH ALTITUDE NUCLEAR
BURST OF JULY 1962 (U), 38 P (U)

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INUM: 04324
ADNO: 625074
AUTH: SOLLFREY W.
CLSS: U
CONN: SD 79 (ARPA)
CORP: RAND CORPORATION (SANTA MONICA-CALIFORNIA)
DATE: 6511
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: THEORY
REPN: RM 4741 ARPA
TSHO: LOW-ALT
SUJO: 2-510-000
TITL: EFFECTS OF PROPAGATION ON THE HIGH-FREQUENCY ELECTROMAGNETIC
RADIATION FROM LOW-ALTITUDE NUCLEAR EXPLOSIONS (U), 38 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04327
AUTH: MANSON D.J.
CLSS: U
CCDE: ZZ (EXPLORER IV DATA ANALYSIS)
CONN: DA 49 146 XZ 494 (DASA)
CORP: ST. LOUIS UNIVERSITY (ST. LOUIS-MISSOURI)
DATE: 6605
DESC: SATELLITE (EXPLORER 4) ; CODE

TSHO: HI-ALT
TITL: VAN ALLEN RADIATION BELT AND ARGUS DIRECTIONAL FLUX DENSITY
DISTRIBUTIONS, EXPLORER IV SATELLITE DATA, APPENDIX 2, COMPUTER
PROGRAMS, DISSERTATION PRESENTED TO PHYSICS DEPARTMENT IN PARTIAL
FULFILLMENT OF REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY
(U), 100 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04331
ADNO: 364604
AUTH: BARAN M.F. ; BAUM C.E.
CLSS: SRD-1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6507
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: EXPERIMENTAL THEORY
DESC: Simulation Facilities Techniques EM propagation atmospheric
chemistry high-altitude phenomenolgy
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry initial
gamma
DESC: test instruments nuclear radiation gamma
EMPF: 251
REPN: WL TR 64 117
SHOT: BACKSWING
TSHO: UG-CONTAINED ; LOW-ALT
SUJO: 2-312-200 ; 2-510-000 ; 4-220-000 ; 4-341-000
TEMP: 49826
TITL: MEASUREMENT OF AIR CONDUCTIVITY PARAMETERS ON THE ASTRON ACCELERATOR
AND THE BACKSWING EVENT (U), 136 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04356
ADNO: 365388
AUTH: BRODE H.L.
CLSS: SRD-1
CONN: AF 49 (638) 700
CORP: RAND CORPORATION (SANTA MONICA-CALIFORNIA)
DATE: 6508
DESC: THEORY TABULAR
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air

DESC: Nuclear Weapon Environment Infrared Output source strength total
intensity
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities
DESC: equation of state heat of vaporization thermal conductivity opacity
REPN: RM 4023 PR
TSHO: HI-ALT
SUJO: 1-310-000 ; 2-130-000 ; 5-200-000 ; 9-710-000
TEMP: B0037
TITL: THEORETICAL DESCRIPTION OF THE FIREBALL, BLAST, AND THERMAL
RADIATION FROM A NUCLEAR EXPLOSION AT 60,000 FT (U), 163 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04357
ADNO: 369967
AUTH: SCHULTZE D.P. ; SULIT R.A.
CLSS: SFRD-1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6510

DESC: Nuclear Weapon Phenomenology base surge

DESC: Nuclear Weapon Effects on animals ionizing radiation

DESC: TABULAR

REPN: USNRDL TR 932 ; TR 932

SUJO: 2-224-120 ; 3-312-000

TEMP: 49824

TITL: TECHNIQUES FOR DISPLAYING SHIP STANDOFF RANGES AND THE BASE-SURGE
HAZARD AREA FROM NUCLEAR UNDERWATER BURSTS (U), 27 P (SFRD)

TNFF: 5890

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INUM: 04358
ADNO: 473472
AUTH: HAMMAN D.J. ; WYLER E.N. ; THATCHER R.K. ; VEAZIE W.H. ; SHOBER F.R.
; BETTENHAUSEN L.H. ; FAIRAND B.P. ; BROADWAY N.J. ; GILLETTE H.C. ;
ALLGEIER J.P. JR. ; HEENAN W.F. ; KANGILASKI M.

CLSS: U

CONN: AF 33 (615) 1124

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OHIO)

DATE: 6506

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: Nuclear Weapon Effects materials not systems associated
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: EXPERIMENTAL SURVEY
REPN: REIC 38
SUJO: 3-219-000 ; 3-221-000 ; 3-229-000 ; 3-240-000 ; 4-346-000
TITL: RADIATION-EFFECTS STATE OF THE ART 1964-1965 (U), 100 P (U)
TREE: 300

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created: 12/27/1991 type: REPORT permanent
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INUM: 04368
AUTH: MARTIN S.B. ; ALVARES N.J.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6604
DESC: Nuclear Weapon Effects materials wood paper cellulose films
DESC: Nuclear Weapon Effects materials fibers textiles
DESC: EXPERIMENTAL
DESC: Simulation Facilities Techniques thermal optical
REPN: USNRDL TR 1007
SUJO: 3-242-000 ; 3-246-000 ; 4-280-000
TITL: IGNITION THRESHOLDS FOR LARGE-YIELD NUCLEAR WEAPONS (U), 89 P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 04406-2
ADNO: 368349
AUTH: PERALTA L.A.
CLSS: SRD-1
CONN: AF 19 (628) 5165
CORP: MITRE CORPORATION (BEDFORD-MASSACHUSETTS) ; AIR FORCE/SYSTEMS
COMMAND (BEDFORD-MASSACHUSETTS)
DATE: 6512
DESC: Nuclear Weapon Effects space systems
DESC: Nuclear Weapon Effects flight systems airplanes

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
DESC: Nuclear Weapon Effects on animals blast shock pressure
DESC: Nuclear Weapon Effects materials metals alloys
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress
DESC: Nuclear Weapon Effects structures underground tunnels
DESC: Nuclear Weapon Effects structures hard launch sites materials
DESC: TABULAR SURVEY
REPN: TM 04015 ; ESD TDR 64 154
TSHO: LOW-ALT ; HI-ALT ; HI-ALT
SUJO: 2-623-000 ; 3-111-000 ; 3-114-000 ; 3-116-200 ; 3-243-000 ;
3-261-000 ; 3-311-100 ; 3-312-100
TEMP: 49825 VOL 2
TITL: PRELIMINARY SYSTEM SURVIVABILITY MANUAL, VOL. II CHAPTERS VI THROUGH
IX (U),262 P (SRD)

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

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INUM: 04421
ADNO: 634493
AUTH: GRANNEMANN W.W.
CLSS: U
CONN: AF 29 (601) 6637
CORP: UNIVERSITY OF NEW MEXICO (ALBUQUERQUE-NEW MEXICO) ; AIR
FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6605
DESC: Simulation Facilities Techniques TREE
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
REPN: AFWL TR 65 175
SUJO: 3-221-000 ; 3-222-000 ; 4-272-000
TITL: LABORATORY TESTING AND THEORETICAL STUDIES IN TRANSIENT RADIATION
EFFECTS ON MICROELECTRONICS (U), 160 P (U)

TREE: 320

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created: 12/27/1991 type: REPORT permanent

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INUM: 04424
AUTH: RAYMOND J.P. ; JOHNSON R.E.
CLSS: U
CCDE: ZZ (TREE)

CONN: DA 28 043 AMC 00423 (E)
CORP: NORTHROP/NORTRONICS (NEWBURY PARK-CALIFORNIA) ; ARMY/ELECTRONICS
LABORATORIES (FORT MONMOUTH-NEW JERSEY)
DATE: 6606
DESC: THEORY CODE
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
REPN: ARD 66 29 R ; ECOM 00423 4
SUJO: 3-221-000
TITL: STUDY FOR GENERALIZED MODEL FOR SEMICONDUCTOR RADIATION RESPONSE
PREDICTION (U), 161 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: 04426

ADNO: 635604

AUTH: BAKER K.D.

CLSS: U

CONN: AF 19 (628) 4995

CORP: UNIVERSITY OF UTAH (SALT LAKE CITY-UTAH) ; AIR FORCE/CAMBRIDGE
RESEARCH LABORATORIES (BEDFORD-MASSACHUSETTS)

DATE: 6605

DESC: Emission Spectra of the Atmosphere

DESC: ionospheric properties during storms disturbances

DESC: test instruments nuclear radiation beta electron beams

DESC: test instruments visible

DESC: test instruments EM propagation atmospheric chemistry direct probes

DESC: test instruments nuclear radiation proton alpha heavy particle

DESC: EXPERIMENTAL

REPN: UU 66 8 ; AFCRL 66 413

SUJO: 4-327-000 ; 4-343-000 ; 4-344-000 ; 4-382-000 ; 5-600-000 ;

5-720-000

TITL: DIRECT IN SITU MEASUREMENTS OF AURORAL PARAMETERS, SCIENTIFIC REPORT
NO. 4 (U), 190 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04439

AUTH: TORREY M.D. ; ZESSOULES N.A. ; LANNING W.D.

CLSS: U

CONN: DA 19 020 AMC 00348 (X)

CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MASSACHUSETTS)
DATE: 6605
DESC: Radiation Transport
DESC: THEORY
DESC: Nuclear Weapon Phenomenology Fireball
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions
DESC: Fluid Mechanics hydrodynamics
REPN: TO B 66 29
TSHO: HI-ALT
SUJO: 2-100-000 ; 2-311-000 ; 9-410-000 ; 9-600-000
TITL: NUMERICAL SIMULATION TECHNIQUES FOR NONEQUILIBRIUM EFFECTS OF
HIGH-ALTITUDE NUCLEAR DETONATIONS (U), 88 P (U)

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

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INUM: 04441
ADNO: 635285
AUTH: FIELD E.C. ; GREIFINGER C.
CLSS: U
CONN: SD 79 (ARPA)
CORP: RAND CORPORATION (SANTA MONICA-CALIFORNIA)
DATE: 6605
DESC: THEORY
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation
REPN: RM 4946 ARPA
TSHO: HI-ALT
SUJO: 2-530-000 ; 5-800-000
TITL: GROUND-LEVEL MAGNETIC FLUCTUATIONS DUE TO HIGH-ALTITUDE NUCLEAR
BURSTS OR IMPULSE SOURCES OF NATURAL ORIGIN (U), 35 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04456-1
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY
DATE: 6606
DESC: SURVEY
REPN: UNSRDL R AND L 177

TITL: PROCEEDINGS FALLOUT PHENOMENA SYMPOSIUM, APRIL 12-14, 1966,
SPONSORED BY DEFENSE ATOMIC SUPPORT AGENCY, OFFICE OF CIVIL DEFENSE
AT THE NAVAL POSTGRADUATE SCHOOL, MONTEREY, CALIFORNIA (U), 473 P
(U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04456-1-2

AUTH: FREILING E.C.

CLSS: U

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

DATE: 6604

DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation

DESC: Nuclear Weapon Environment Fallout Formation mechanicms

DESC: EXPERIMENTAL

REPN: USNRDL R AND L 177

SUJO: 2-221-000 ; 4-242-000

SYMJ: PROCEEDINGS FALLOUT PHENOMENA SYMPOSIUM, APRIL 12 14, 1966,
SPONSORED BY DEFENSE ATOMIC SUPPORT AGENCY, OFFICE OF CIVIL DEFENSE,
AT THE NAVAL POSTGRADUATE SCHOOL, MONTEREY, CALIFORNIA (U)

TITL: EXPERIMENTAL DETERMINATION OF INPUT FOR THE PREDICTION OF
FRACTIONATION EFFECTS (U), 20 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04456-1-3

AUTH: RYNDERS G.F.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)

DATE: 6604

DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation

REPN: USNRDL R AND L 177 ; UCRL 14668

SUJO: 4-242-000

SYMJ: PROCEEDINGS FALLOUT PHENOMENA SYMPOSIUM, APRIL 12 14, 1966,
SPONSORED BY DEFENSE ATOMIC SUPPORT AGENCY, OFFICE OF CIVIL DEFENSE,
AT THE NAVAL POSTGRADUATE SCHOOL, MONTEREY, CALIFORNIA (U)

TITL: SIMULATION OF PARTICULATE FALLOUT (U), 20 P (U)

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

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INUM: 04456-1-5
AUTH: HUEBSCH I.O.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6604
DESC: Nuclear Weapon Phenomenology cloud shape size
DESC: THEORY
REPN: USNRDL R AND L 177
SUJO: 2-224-140
SYMJ: PROCEEDINGS FALLOUT PHENOMENA SYMPOSIUM, APRIL 12-14, 1966, SPONSORED BY DEFENSE ATOMIC SUPPORT AGENCY, OFFICE OF CIVIL DEFENSE, AT THE NAVAL POSTGRADUATESCHOOL, MONTEREY, CALIFORNIA (U)
TITL: ENERGY CYCLE AND THE ENERGY CASCADE OF THE ATOMIC CLOUD (U), 51 PAGES (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04456-1-8
AUTH: EVANS E.C. III ; YOUNG C.A.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6606
DESC: Nuclear Weapon Environment fallout Deposition
DESC: SURVEY
REPN: USNRDL R AND L 177
SUJO: 2-225-000
SYMJ: FALLOUT PHENOMENA SYMPOSIUM (U), APRIL 12-14, 1966 PROCEEDINGS, PART 1
TITL: DIFFERENCES IN TRANSPORT AND DEPOSITION OF CLOSE-IN AND INTERMEDIATE FALLOUT (U), 21 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04456-1-9
AUTH: TOMPKINS R.C.
CLSS: U
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND)
DATE: 6606
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport
DESC: SUMMARY
REPN: USNRDL R AND L 177
SUJO: 4-140-000
SYMJ: FALLOUT PHENOMENA SYMPOSIUM (U), APRIL 12-14, 1966 PROCEEDINGS, PART

1

TITL: DOD LAND FALLOUT PREDICTION SYSTEM (U), 9 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04456-1-10
AUTH: CROCKER G.R.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6606

DESC: TABULAR

DESC: Nuclear Weapon Environment radiation decay isotopic half lives

DESC: Nuclear Weapon Environment radiation decay gamma decay

REPN: USNRDL R AND L 177

SUJO: 2-223-410 ; 2-223-420

SYMJ: FALLOUT PHENOMENA SYMPOSIUM (U), APRIL 12-14, 1966 PROCEEDINGS, PART

1

TITL: PREDICTIONS OF SOME RADIATION PROPERTIES OF UNFRACTIONATED AND
FRACTIONATED FALLOUT FIELDS (U), 15 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04456-1-11
AUTH: SOULE R.R.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6606

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Simulation Facilities Techniques nuclear radiation fallout

simulation

DESC: THEORY EXPERIMENTAL
REPN: USNRDL R AND L 177
SUJO: 2-223-200 ; 4-242-000
SYMJ: FALLOUT PHENOMENA SYMPOSIUM (U), APRIL 12-14, 1966 PROCEEDINGS, PART

1

TITL: GAMMA RAY FIELDS ABOVE ROUGH CONTAMINATED SURFACES (U), 17 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04456-1-12

AUTH: BROWN S.L.

CLSS: U

CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CALIFORNIA)

DATE: 6606

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Environment Fallout beta intensities

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

DESC: THEORY

REPN: USNRDL R AND L 177

SUJO: 2-223-200 ; 2-223-300 ; 3-312-200

SYMJ: FALLOUT PHENOMENA SYMPOSIUM (U), APRIL 12-14, 1966 PROCEEDINGS, PART

1

TITL: DISINTEGRATION RATE MULTIPLIERS IN BETA EMITTER DOSE CALCULATIONS
(U), 20 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04456-1-13

AUTH: FRENCH R.L.

CLSS: U

CONN: DA 49 146 XZ 254

CORP: RADIATION RESEARCH ASSOCIATES INCORPORATED (FORT WORTH-TEXAS)

DATE: 6606

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

DESC: TABULAR EXPERIMENTAL

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

REPN: USNRDL R AND L 177

SUJO: 2-223-200 ; 3-312-200

SYMJ: FALLOUT PHENOMENA SYMPOSIUM (U), APRIL 12-14, 1966 PROCEEDINGS, PART

1

TITL: CHARACTERISTICS OF THE GAMMA-RAY ENVIRONMENT PRODUCED BY FALLOUT

FIELDS (U), 45 P (U)

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

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INUM: 04456-1-14
AUTH: LARIVIERE P.D. ; YU S ; MILLER C.F.
CLSS: U
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CALIFORNIA)
DATE: 6606
DESC: Nuclear Weapon Environment radiation decay
DESC: Nuclear Weapon Environment fallout fractionation
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: USNRDL R AND L 177
SHOT: SMALLBOY ; DIABLO
TSHO: SURFACE
SUJO: 2-223-100 ; 2-223-200 ; 2-223-400 ; 2-223-500 ; 2-225-100
SYMJ: FALLOUT PHENOMENA SYMPOSIUM (U), APRIL 12-14, 1966 PROCEEDINGS, PART

1

TITL: INTENSITY--ACTIVITY RELATIONS FOR SHOT SMALL BOY (U), 34 P (U)

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

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INUM: 04456-2
CLSS: SRD
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA) ; NAVY/NAVAL POSTGRADUATE SCHOOL (MONTEREY-CALIFORNIA)
DATE: 6606
DESC: SURVEY
REPN: USNRDL R AND L 176
TEMP: 49946
TITL: FALLOUT PHENOMENA SYMPOSIUM, APRIL 12-14, 1966, PROCEEDINGS, PART 2 (U), 181 P(SRD)

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04456-2

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copy: 1 id: 40079-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 04456-2-1
AUTH: HEFT R.E.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6606
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Environment Fallout Particles size distribution
REPN: USNRDL R AND L 176
SHOT: PALANQUIN ; SEDAN
TSHO: UG-VENTED ; UG-CONTAINED
SUJO: 2-222-300 ; 2-223-100 ; 2-223-200
SYMJ: FALLOUT PHENOMENA SYMPOSIUM (U), APRIL 12-14, 1966, PROCEEDINGS,
PART 2 (SRD)
TITL: PARTICLE ANALYSIS OF PALANQUIN AND SEDAN EVENTS (U), 25 P (SRD)

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04456-2-1

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copy: 1 id: 40080-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04456-2-7
AUTH: FERGUSON J.M.
CLSS: SRD
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6606
DESC: SUMMARY
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
REPN: USNRDL R AND L 176
TSHO: LOW-ALT
SUJO: 2-223-200
SYMJ: FALLOUT PHENOMENA SYMPOSIUM (U), APRIL 12-14, 1966, PROCEEDINGS,
PART 2 (SRD)
TITL: NEUTRON INDUCED ACTIVITY (U), 6 P (SRD)

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copy: 1 id: 40086-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04459
ADNO: 363933L
AUTH: BUNNEY L.R.

CLSS: SRD-1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6506
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: Nuclear weapon test yield
REPN: USNRDL TR 867
SHOT: SWORDFISH
TSHO: UW
SUJO: 2-223-100 ; 4-835-000
TEMP: 49979
TITL: RADIOCHEMICAL DETERMINATION OF THE YIELD OF THE SWORD FISH DEVICE (U), 8 P (SRD)

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04459

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

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INUM: 04469
ADNO: 369254L
AUTH: SPILLMAN G.R., DEBORDE G.E., LAMBERTO P.J., GARNER J.W., HAVENS
CLSS: SRD CNWDI
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6601
DESC: THEORY TABULAR
DESC: Nuclear Weapon Environment X-ray Output energy spectrum
DESC: Nuclear weapon test yield
DESC: Radiation Transport x-ray
DESC: Nuclear Weapon Environment X-ray Output rate
REPN: AFWL TR 65 184
SOCE: DEV-23
SUJO: 1-620-000 ; 1-640-000 ; 4-835-000 ; 9-640-000
TEMP: 49989
TITL: RADIATION TRANSPORT CALCULATION OF NUCLEAR WEAPON OUTPUT (HB2) (U), 54 P (SRD)

TREE: 930

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copy: 1 id: 40098-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04470
ADNO: 366272L
AUTH: ENGELMORE R.S.
CLSS: U

CCDE: SPUTTER
CONN: DA 28 017 AMC 1323 A
CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CALIFORNIA)
DATE: 6505
DESC: Radiation Transport plasma
DESC: THEORY CODE
DESC: Nuclear Weapon Effects reentry systems RV
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: Nuclear Weapon Effects materials plastics resins
REPN: GA 6412
TSHO: HI-ALT
SUJO: 2-211-000 ; 3-113-000 ; 3-244-000 ; 9-660-000
TEMP: 51048
TITL: STUDY OF SURFACE DAMAGE OF REENTRY VEHICLES DUE TO NUCLEAR WEAPONS
EFFECTS (U), 46 P (S)

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copy: 1 id: 40099-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04485
ADNO: 360053L
AUTH: GRANT K.W.
CLSS: SRD-1
CORP: NAVY/NAVAL ORDNANCE LABORATORY (CORONA-CALIFORNIA)
DATE: 6504
DESC: TABULAR
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Phenomenology cloud shape size
DESC: Nuclear Weapon Effects flight systems airplanes
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Target Analysis system studies aircraft L1
REPN: NAVWEPS 8233
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 2-224-140 ; 3-111-000 ;
3-312-000 ; 3-431-100
TEMP: 51022
TITL: DETERMINATION OF LETHAL RADIATION ENVELOPES FOR AIRCRAFT BY A
SPHERICAL-CLOUD APPROXIMATION (U), 17 P (SRD)
TREE: 910 ; 920

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copy: 1 id: 40112-1001 library: DOCUMENT price: \$.00

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

INUM: 04488
ADNO: 371722
AUTH: MCCHRISTIAN L.S. ; ENZ R.W.
CLSS: SRD-1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6604
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: TABULAR
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
DESC: Nuclear Weapon Effects ordnance bombs mines warheads
DESC: Nuclear Weapon Effects flight systems airplanes
DESC: Nuclear Weapon Effects on animals thermal ocular effects
REPN: AFWL TR 65 195
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 2-611-000 ; 3-111-000 ;
3-161-000 ; 3-312-100 ; 3-313-200
TEMP: 51027
TITL: VULNERABILITY OF THE F-4C WEAPON SYSTEM TO NUCLEAR EFFECTS (U), 93 P
(SRD)
TREE: 398

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04488
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copy: 1 id: 40115-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04489
ADNO: 371340
AUTH: GOLUB J. ; GROSCH C.E. ; HILL D.A. ; LUKASIK S.J. ; SCHOLZ L.C. ;
SMILLIE J.
CLSS: SRD-1
CONN: AF 04 (695) 913
CORP: VITRO LABORATORIES (WEST ORANGE-NEW JERSEY)
DATE: 6603
DESC: Solar Phenomena
DESC: nuclear test detection x-ray detection
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation
DESC: nuclear test detection initial gamma detection
DESC: Nuclear Weapon Phenomenology cloud shape size
DESC: EXPERIMENTAL
REPN: VL 2422 7 O

SUJO: 2-224-140 ; 4-910-800 ; 4-915-000 ; 5-800-000 ; 5-900-000
TEMP: 51025
TITL: COMPUTER SIMULATION STUDIES, FIRST QUARTERLY REPORT, SATELLITE
SYSTEM (U), 83 P (SRD)

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copy: 1 id: 40116-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04490
ADNO: 365932L
AUTH: KELLY C.W. III ; RENDLEMAN R.A. ; NOSWORTHY C.T. ; MILLER C.D.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6506
DESC: Nuclear Weapon Environment Ground Shock craters excavations
DESC: EXPERIMENTAL
DESC: nuclear test detection infrared detection
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions

REPN: USNRDL TR 862
SHOT: CLSHOT-20 ; SUFFIELD 100T ; SUFFIELD 20T
TSHO: UG-CONTAINED ; SURFACE
SUJO: 2-625-000 ; 2-629-000 ; 4-910-500
TEMP: B8584
TITL: MULTISENSOR AERIAL RECONNAISSANCE OF A 20-TON HIGH EXPLOSIVE SURFACE
DETONATION (U), 67 P (C)

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04490

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copy: 1 id: 40117-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04504
AUTH: BROWN F.W. III
CLSS: U
CORP: NAVY/NAVAL CIVIL ENGINEERING LABORATORY (PORT HUENEME-CALIFORNIA)
DATE: 6511
DESC: Nuclear Weapon Effects materials wood paper cellulose films
DESC: EXPERIMENTAL
DESC: Simulation Facilities Techniques thermal optical
REPN: TR R 320 ; R 320 ; 320
SUJO: 3-246-000 ; 4-280-000
TITL: IGNITION OF THICK WOOD SPECIMENS BY HIGH-TEMPERATURE THERMAL
RADIATION (U), 52P (U)

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copy: 1 id: 40131-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04509

ADNO: 631025

AUTH: GAL PERIN Y.I.

CLSS: U

DATE: 6603

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

DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping

DESC: SATELLITE (COSMOS 5) ; EXPERIMENTAL

REPN: TG 230 T 466

SHOT: STARFISH

TSHO: HI-ALT

SUJO: 2-212-000 ; 2-217-000

SYMJ: ISSLEDOVANIYA KOSMICHESKOGO PROSTRANSTVA (COSMIC SPACE RESEARCH)

(U), SPECIAL ISSUE (U), P 388-393, 1965

TITL: PHYSICAL PICTURE OF THE FORMATION OF AN ARTIFICIAL RADIATION BELT BY
THE AMERICAN HIGH-ALTITUDE THERMONUCLEAR BURST OF 9 JULY 1962 (U) 9
P (U)

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copy: 1 id: 40135-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04557

CLSS: U

CONN: W 7405 ENG 48 (AEC)

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA) ; LOS ALAMOS
SCIENTIFIC LABORATORY (LOS ALAMOS-NEW MEXICO) ; LAWRENCE RADIATION
LABORATORY (BERKELEY-CALIFORNIA) ; ARGONNE NATIONAL LABORATORY
(ARGONNE-ILLINOIS)

DATE: 6603

DESC: Nuclear Weapon Environment Fallout isotope concentrations

DESC: Nuclear Weapon Environment radiation decay isotopic half lives

DESC: EXPERIMENTAL

REPN: UCRL 14500

SHOT: PAR ; BARBEL

TSHO: UG-CONTAINED

SUJO: 2-223-100 ; 2-223-410

TITL: NUCLEAR DECAY PROPERTIES OF HEAVY NUCLIDES PRODUCED IN THERMONUCLEAR
EXPLOSIONS PAR AND BARBEL EVENTS (U), 23 P (U)

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copy: 1 id: 40166-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04570-13,1

AUTH: ROSS R.C. ; COHEN M.O. ; BROOKS J. ; RICH D.H.

CLSS: SRD

CORP: UNITED NUCLEAR CORPORATION (ELMSFORD-NEW YORK) ; UNION CARBIDE
NUCLEAR CORPORATION (ELMSFORD-NEW YORK) ; GENERAL ELECTRIC/REENTRY
SYSTEMS DEPARTMENT (PHILADELPHIA-PENNSYLVANIA)

DATE: 6604

DESC: TABULAR

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1, 964 L1 X RAYS, 984 L1

REPN: 4613 135 X (II)

TSHO: HI-ALT

SUJO: 1-610-000

SYMJ: AMRAC PROCEEDINGS, VOLUME XIV, PART II, PROJECT DEFENDER, ADVANCED
RESEARCH PROJECTS AGENCY, MEETING OF 18 AND 19 APRIL 1966,
ARLINGTON, VIRGINIA, P 51-93 (SRD)

TITL: TIME DEPENDENT TRANSPORT OF X-RADIATION THROUGH THE ATMOSPHERE (U),
30 P (SRD)

TREE: 930

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copy: 1 id: 40173-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04585

ADNO: 472207

AUTH: JONES D.C.

CLSS: U

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OHIO)

DATE: 6502

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

DESC: Nuclear Weapon Effects electrical mechanical cables wires

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

DESC: Nuclear Weapon Effects electronic pieceparts solar cells

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits

DESC: TABULAR THEORY HANDBOOK BIBLIOGRAPHY

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network

REPN: DASA 1420

SUJO: 3-219-000 ; 3-221-000 ; 3-222-000 ; 3-223-000 ; 3-229-000 ;
3-231-000

TITL: TREE (TRANSIENT RADIATION EFFECTS ON ELECTRONICS) HANDBOOK (U), 323
P (U)

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copy: 1 id: 40180-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04626

AUTH: RICHTER H.L. JR.

CLSS: U

CORP: ELECTRO-OPTICAL SYSTEMS INCORPORATED (PASADENA-CALIFORNIA) ; NASA
(WASHINGTON-D.C.)

DATE: 6600

DESC: test instruments thermal optical ir

DESC: test instruments electronic vulnerability EMP

DESC: test instruments EM propagation atmospheric chemistry radar

DESC: SURVEY

DESC: test instruments nuclear radiation

DESC: test instruments test hardware impact impulse

REPN: NASA SP 3028

SUJO: 4-317-000 ; 4-321-000 ; 4-340-000 ; 4-371-000 ; 4-380-000

TITL: INSTRUMENTS AND SPACECRAFT, SPACE MEASUREMENTS SURVEY, OCTOBER
1957MARCH 1965 (U), 1008 P (U)

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copy: 1 id: 40205-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04638

ADNO: 481132L

AUTH: CALME E.E. ; PUTZ J.L. ; JORDAN J.D. ; SHO VAN R.W. ; FRIES R.C.

CLSS: U

CONN: DA 28 043 AMC 00475 (E)

CORP: GENERAL ELECTRIC COMPANY/RECEIVING TUBE DEPARTMENT
(OWENSBORO-KENTUCKY) ; ARMY/ELECTRONICS LABORATORIES (FORT
MONMOUTHNEW JERSEY)

DATE: 6604

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources

DESC: test instruments nuclear radiation neutron

DESC: Nuclear Weapon Effects electronic subsystems computers memory

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation dosimeters radiacs

REPN: ECOM 00475 3

SUJO: 3-212-000 ; 4-241-000 ; 4-342-000 ; 4-346-000

TITL: TRANSIENT RADIATION EFFECTS ON MICROWAVE ELECTRON TUBES, THIRD

QUARTERLY PROGRESS REPORT (U), 120 P (U)

TREE: 305

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04638

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copy: 1 id: 40212-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04643

ADNO: 375372L

AUTH: LOEWE W.E. ; MANDLER J.W. ; STINCHCOMB T.G. ; ZAGOTTA W.E.

CLSS: SRD-1

CONN: DA 18 035 AMC 114 (A)

CORP: ILLINOIS INSTITUTE OF TECHNOLOGY/RESEARCH INSTITUTE
(CHICAGO-ILLINOIS) ; ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD
ARSENAL-MARYLAND)

DATE: 6606

DESC: Nuclear weapon test yield

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Environment radiation decay gamma decay

DESC: TABULAR

DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width

REPN: NDL TR 74 ; NDL 66 SRD 93

SHOT: ITEM ; CHARLIE(B-J) ; EASY(B-J) ; SUGAR ; UNCLE ; DOG(T-S) ; MIKE ;

BRAVO ; UNION ; ZUNI ; FLATHEAD ; NAVAJO ; FRANKLIN ; LASSEN ;

WILSON ; HOOD ; JOHN ; OWENS ; HAMILTON ; JOHNNIE BOY ; SMALLBOY ;

STARFISH ; CHECKMATE ; KINGFISH

TSHO: LOW-ALT ; SURFACE ; WATER-SURFACE ; HI-ALT

SUJO: 1-740-000 ; 2-223-200 ; 2-223-420 ; 4-341-000 ; 4-820-400 ;

4-835-000

TEMP: 51280

TITL: GAMMA DOSE RATE COMPILATION (U), 251 P (SRD)

TREE: 910

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copy: 1 id: 40216-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04659

ADNO: 488557

AUTH: BINDER D. ; COMPTON P.A. ; SMITH E.C.

CLSS: U

CONN: AF 29 (601) 6721

CORP: HUGHES AIRCRAFT COMPANY (FULLERTON-CALIFORNIA) ; AIR FORCE/WEAPONS

LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)

DATE: 6607
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: THEORY EXPERIMENTAL
REPN: AFWL TR 66 41 1 ; FR 66 17 63
SUJO: 3-221-000
TITL: ANALYTICAL AND EXPERIMENTAL PREDICTIONS OF FUSION NEUTRON RADIATION
EFFECTS, VOL I, THEORETICAL AND EXPERIMENTAL STUDIES (U), 104 P (U)
TREE: 310

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copy: 1 id: 40225-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04664

ADNO: 375253L

AUTH: FROLICH A.J. ; NAUMANN W.J. ; MESSENGER G.C. ; PARKER W.D. ; PRETZER

D.D.

CLSS: SRD-1

CONN: DA 36 039 SC 90738 (E)

CORP: NORTHROP/NORTRONICS (NEWBURY PARK-CALIFORNIA) ; ARMY/ELECTRONICS

LABORATORIES (FORT MONMOUTH-NEW JERSEY)

DATE: 6606

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic subsystems L1 NUCLEAR RADIATION

PERMANENT DAMAGE TREE

REPN: ARD 66 44 R (2) ; ECOM 90738 12 (2)

SUJO: 3-210-000

TEMP: 51257 VOL II

TITL: EQUIPMENT DESIGN PRACTICES AND TECHNIQUES FOR THE NUCLEAR RADIATION
ENVIRONMENT, SEMI-ANNUAL REPORT, VOLUME II (U), 254 P (SRD)

TREE: 420 ; 300

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copy: 1 id: 40227-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04665

ADNO: 375251L

AUTH: FROLICH A.J. ; NAUMANN W.J. ; MESSENGER G.C. ; PARKER W.D. ; PRETZER

D.D.

CLSS: SRD-1

CONN: DA 36 039 SC 90738 (E)

CORP: NORTHROP/NORTRONICS (NEWBURY PARK-CALIFORNIA) ; ARMY/ELECTRONICS

LABORATORIES (FORT MONMOUTH-NEW JERSEY)

DATE: 6606
DESC: Nuclear Weapon Effects electronic subsystems L1 NUCLEAR RADIATION
PERMANENT DAMAGE TREE
DESC: EXPERIMENTAL
REPN: ARD 66 44 R (1) ; ECOM 90738 12 (1)
SUJO: 3-210-000
TEMP: 51257 VOL I
TITL: EQUIPMENT DESIGN PRACTICES AND TECHNIQUES FOR THE NUCLEAR RADIATION
ENVIRONMENT, SEMIANNUAL REPORT, VOLUME I (U), 230 P (SRD)

TREE: 420 ; 300

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copy: 1 id: 40228-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04673

ADNO: 639694

AUTH: STOUT D.F.

CLSS: U

CONN: AF 19 (628) 4995

CORP: UNIVERSITY OF UTAH (SALT LAKE CITY-UTAH) ; AIR FORCE/CAMBRIDGE
RESEARCH LABORATORIES (BEDFORD-MASSACHUSETTS)

DATE: 6608

DESC: test instruments EM propagation atmospheric chemistry direct probes

DESC: THEORY EXPERIMENTAL

DESC: test instruments nuclear radiation beta electron beams

DESC: ionospheric properties during storms disturbances

REPN: UU 66 9 ; AFCRL 66 604

SUJO: 4-327-000 ; 4-344-000 ; 5-720-000

TITL: SOFT ELECTRON SPECTROMETER FOR AURORAL RESEARCH, SCIENTIFIC REPORT
NO. 5 (U), 86 P (U)

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04673

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copy: 1 id: 40234-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04677

ADNO: 639436

AUTH: ROEDERER J.G. ; HEROD J.V.

CLSS: U

CCDE: ZZ (GEOMAGNETIC TRAPPING)

CORP: NASA/GODDARD SPACE FLIGHT CENTER (GREENBELT-MARYLAND) ; AIR
FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)

DATE: 6609

DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped

Radiation Particle Fluxes Space Radiation

DESC: CODE
REPN: AFWL TR 66 78
SUJO: 2-217-000 ; 5-800-000
TITL: COMPUTATIONAL MODEL FOR GEOMAGNETICALLY TRAPPED PARTICLE SHELLS AND
KINEMATIC PARAMETERS (U), 80 P (U)

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04677

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copy: 1 id: 40236-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04679
ADNO: 488056
AUTH: AUSMAN G.A. JR. ; CROSBY M.H.
CLSS: U
CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.)
DATE: 6605
DESC: Nuclear Weapon Environment Prompt Neutrons
DESC: TABULAR
DESC: Radiation Transport neutron
REPN: TR 1322
TSHO: HI-ALT
SUJO: 1-100-000 ; 9-650-000
TITL: TIME-DEPENDENT NEUTRON TRANSPORT FROM A POINT ISOTROPIC SOURCE AT AN
ALTITUDE OF 66,000 FEET (U), 279 P (U)

TREE: 970

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04679

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copy: 1 id: 40237-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04693
ADNO: 481165L
AUTH: KEHRER W.S.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6602
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity
REPN: USNRDL TR 981
SHOT: WIGWAM
TSHO: UW

SUJO: 2-223-420 ; 2-225-100 ; 4-821-000
TITL: AERIAL SURVEY OF THE CONTAMINATED OCEAN SURFACE AT OPERATION WIGWAM,
WITH DOSERATE CONTOUR LINES THROUGH D&4 DAYS (U), 55 P (U)

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copy: 1 id: 40248-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 04698
ADNO: 371760L
AUTH: SCHULTZE D.P. ; RAINEY S.C. ; HAWLEY R.E. ; AUSTON R.
CLSS: SRD-1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6512
DESC: TABULAR
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: Nuclear Warfare Theater tactical navy ASW L1
DESC: Nuclear Weapon Effects on animals ionizing radiation
REPN: USNRDL TR 950
TSHO: UW
SUJO: 2-225-100 ; 3-312-000 ; 3-412-400
TEMP: 51293

TITL: TACTICAL ADVANTAGES FROM THE EMPLOYMENT OF A PROPOSED ERA DEPTH
CHARGE (U), 130 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 04736
ADNO: 800080L
AUTH: PHUNG P.V. ; WILLOUGHBY A.B.
CLSS: U
CONN: N 228 (62479) 68358
CORP: URS INCORPORATED (BURLINGAME-CALIFORNIA) ; NAVY/NAVAL RADIOLOGICAL
DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)

DATE: 6607
DESC: TABULAR
DESC: Nuclear Weapon Effects structures shipyards harbors
REPN: USNRDL TRC 54 ; URS 653 1
SUJO: 3-123-000
TITL: PREDICTION OF PROBABLE DAMAGE IN NAVAL SHIPYARDS RESULTING FROM
THERMAL RADIATION OF NUCLEAR WEAPONS AND SUBSEQUENT FIRE (U), 202 P
(U)

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copy: 1 id: 40260-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04780
ADNO: 817693L
AUTH: BAILEY K.F. ; ANDERSON W.C.
CLSS: U
CORP: E G AND G INCORPORATED (SANTA BARBARA-CALIFORNIA)
DATE: 6609
DESC: EXPERIMENTAL THEORY
DESC: test instruments nuclear radiation gamma
REPN: EGG S 318 R ; S 318 R
SUJO: 4-341-000
TITL: PROJECT BASS DRUM FLUOR DETECTOR STUDIES, TECHNICAL REPORT (U), 52 P
(U)
TREE: 651

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04780
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copy: 1 id: 40269-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04814
ADNO: 801007
AUTH: WALTON R.B. ; SUND R.E.
CLSS: U
CONN: AF 29 (601) 6837
CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CALIFORNIA) ; AIR
FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6610
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation gamma
REPN: AFWL TR 66 122 ; GA 7348
SUJO: 2-223-410 ; 2-223-420 ; 4-341-000
TITL: DELAYED GAMMA RAYS FROM FISSION (U), 56 P (U)

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04814
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copy: 1 id: 40283-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04821
ADNO: 376882L
AUTH: LOEWE W.E. ; MANDLER J.W. ; STINCHCOMB T.G. ; ZAGOTTA W.E.
CLSS: SRD-1
CONN: DA 18 035 AMC 114 (A)
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND) ;
ILLINOIS INSTITUTE OF TECHNOLOGY/RESEARCH INSTITUTE
(CHICAGO-ILLINOIS)
DATE: 6607
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Phenomenology cloud development rise
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: test instruments nuclear radiation dosimeters radiacs
REPN: NDL TR 75
SHOT: ITEM ; CHARLIE(B-J) ; EASY(B-J) ; SUGAR ; DOG(T-S) ; MIKE ; KING ;
UNION ; BRAVO ; ZUNI ; FLATHEAD ; NAVAJO ; FRANKLIN ; LASSEN ;
WILSON ; HOOD ; OWENS ; HAMILTON ; SMALLBOY
TSHO: LOW-ALT ; SURFACE ; WATER-SURFACE
SUJO: 1-710-000 ; 1-740-000 ; 2-223-200 ; 2-224-100 ; 4-346-000
TEMP: 51543
TITL: STUDY OF INITIAL GAMMA DOSE AND DOSE RATE MEASUREMENTS (U), 284 P
(SRD)
TREE: 910
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04821
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copy: 1 id: 40286-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 04822
ADNO: 640595
AUTH: BRACCIARENTI J. ; HEILFERTY R. ; DERKSEN W.
CLSS: U
CORP: NAVY/NAVAL APPLIED SCIENCE LABORATORY (BROOKLYN-NEW YORK)
DATE: 6607
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects materials fibers textiles
DESC: Nuclear Weapon Effects materials wood paper cellulose films
DESC: Simulation Facilities Techniques thermal optical
REPN: 14 ; AD 640595
SUJO: 3-242-000 ; 3-246-000 ; 4-280-000
TITL: RADIANT EXPOSURES FOR IGNITION OF TINDER BY THERMAL RADIATION FROM
NUCLEAR WEAPONS, FINAL REPORT (U), 95 P (U)
.block
04822
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copy: 1 id: 40287-1001 library: DOCUMENT price: \$.00

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

INUM: 04841
ADNO: 801534
AUTH: RUSSELL R.L. ; BELL J.E.
CLSS: U
CONN: AF 29 (601) 6808
CORP: HUGHES AIRCRAFT COMPANY (FULLERTON-CALIFORNIA) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6608
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors
DESC: test instruments hardened instruments
REPN: AFWL TR 66 68
SUJO: 3-219-000 ; 3-224-000 ; 4-346-000 ; 4-360-000
TITL: RADIATION HARDENING WITH OVERLOAD SWITCHES (U), 132 P (U)
TREE: 420

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04841

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copy: 1 id: 40293-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04897-6
ADNO: 378002
AUTH: CAMPBELL J.F. ; REINHEIMER J.
CLSS: SRD
CONN: AF 04 (695) 669
CORP: AIR FORCE/SYSTEMS COMMAND (NORTON AIR FORCE BASE-CALIFORNIA) ;
AEROSPACE CORPORATION (SAN BERNARDINO-CALIFORNIA)
DATE: 6604
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Effects missile systems strategic
DESC: Nuclear Weapon Effects reentry systems RV
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity
DESC: SUMMARY TABULAR
DESC: Nuclear Weapon Effects structures hard launch sites materials
TSHO: LOW-ALT ; SURFACE ; HI-ALT
SUJO: 1-110-000 ; 1-610-000 ; 1-710-000 ; 2-611-000 ; 3-112-100 ;
3-113-000 ; 3-116-200

SYMJ: TRANSACTIONS OF THE ELEVENTH SYMPOSIUM ON SPACE AND BALLISTIC
MISSILE TECHNOLOGY, HELD AT U.S. AIR FORCE ACADEMY, COLORADO, 6-8
JULY 1966, VOLUME III, RE-ENTRY VULNERABILITY AND HARDENING
SATELLITE SURVIVABILITY (U)

TITL: SURVEY OF WEAPONS SYSTEMS VULNERABILITIES TO RADIATION EFFECTS (U),
23 P (SRD)

TREE: 396 ; 392

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04897-6

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copy: 1 id: 40325-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04897-10

ADNO: 378002

AUTH: BENEDICT R.P. JR.

CLSS: SRD

CORP: AIR FORCE/SYSTEMS COMMAND (NORTON AIR FORCE BASE-CALIFORNIA)

DATE: 6607

DESC: Simulation Facilities Techniques x-ray effects

DESC: Simulation Facilities Techniques TREE

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic

sources

DESC: SUMMARY

SUJO: 4-231-000 ; 4-241-000 ; 4-272-000

SYMJ: TRANSACTIONS OF THE ELEVENTH SYMPOSIUM ON SPACE AND BALLISTIC
MISSILE TECHNOLOGY, HELD AT U.S. AIR FORCE ACADEMY, COLORADO, 6-8
JULY 1966, VOLUME III, RE-ENTRY VULNERABILITY AND HARDENING
SATELLITE SURVIVABILITY (U)

TITL: SIMULATION FACILITIES (U), 11 P (SRD)

TREE: 642

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copy: 1 id: 40320-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04907

ADNO: 485025

CLSS: U

CCDE: SPUTTER

CONN: AF 29 (601) 6492

CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CALIFORNIA)

DATE: 6607

DESC: Radiation Transport thermal

DESC: CODE THEORY

REPN: AFWL TR 65 143 VOL IV ; GA 6585

SUJO: 9-610-000

TITL: FIREBALL PHENOMENOLOGY AND CODE DEVELOPMENT, VOLUME IV, SPUTTER
SUBROUTINES FOR RADIATION TRANSPORT IN PLANES (U), 54 P (U)

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copy: 1 id: 40335-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 04909

ADNO: 642729

AUTH: BURT D.A. ; SELJAAS K.G.

CLSS: U

CONN: AF 19 (628) 4995

CORP: UNIVERSITY OF UTAH (SALT LAKE CITY-UTAH) ; AIR FORCE/CAMBRIDGE
RESEARCH LABORATORIES (BEDFORD-MASSACHUSETTS)

DATE: 6610

DESC: test instruments nuclear radiation beta electron beams

DESC: test instruments EM propagation atmospheric chemistry direct probes

DESC: test instruments x-ray effects

REPN: UU 66 11 ; AFCRL 66 738

SUJO: 4-327-000 ; 4-330-000 ; 4-344-000

TITL: ROCKET INSTRUMENTATION FOR AURORAL MEASUREMENTS NIROS AD 7.618D AND
AD 7.619D (U), 109 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04914

ADNO: 817695

AUTH: ANDERSON W.C. ; HOCKER L.P.

CLSS: U

CONN: AF 29 (601) 6816

CORP: E G AND G INCORPORATED (SANTA BARBARA-CALIFORNIA)

DATE: 6611

DESC: Nuclear Weapon Effects electrical mechanical cables wires

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic

sources

DESC: Simulation Facilities Techniques TREE

DESC: EXPERIMENTAL

REPN: EGG S 343 R ; S 343 R

SUJO: 3-231-000 ; 4-241-000 ; 4-272-000

TITL: PROJECT BASS DRUM CABLE HARDENING STUDIES (U), 75 P (U)

TREE: 390

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copy: 1 id: 40340-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04920
ADNO: 485368
CLSS: U
CCDE: SPUTTER
CONN: AF 29 (601) 6492
CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CALIFORNIA) ; AIR
FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6607
DESC: Radiation Transport thermal
DESC: CODE THEORY
REPN: AFWL TR 65 143 VOL III ; GA 6585
SUJO: 9-610-000
TITL: FIREBALL PHENOMENOLOGY AND CODE DEVELOPMENT, VOLUME III, SPUTTER
SUBROUTINES FOR RADIATION TRANSPORT IN SPHERES (U), 109 P (U)

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copy: 1 id: 40344-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04921
ADNO: 485285
CLSS: U
CCDE: SPUTTER
CONN: AF 29 (601) 6492
CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CALIFORNIA) ; AIR
FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6607
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling
DESC: CODE THEORY
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates
DESC: Radiation Transport thermal
REPN: AFWL TR 65 143 VOL VI ; GA 6585
SHOT: BLUEGILL
TSHO: HI-ALT
SUJO: 2-110-000 ; 2-130-000 ; 2-150-000 ; 9-610-000
TITL: FIREBALL PHENOMENOLOGY AND CODE DEVELOPMENT, VOLUME VI, EXTENSIONS
OF THE PHYSICS (U), 157 P (U)

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copy: 1 id: 40345-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04922
ADNO: 484769
AUTH: ORNDORFF R.M.
CLSS: U
CONN: AF 29 (601) 6756
CORP: HUGHES AIRCRAFT COMPANY (FULLERTON-CALIFORNIA) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6606
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers
DESC: test instruments hardened instruments
DESC: EXPERIMENTAL
REPN: AFWL TR 66 49
SUJO: 3-213-000 ; 4-360-000
TITL: RESEARCH AND DESIGN STUDIES OF A RADIATION HARDENED SAMPLED DATA
SYSTEM (U), 83 P (U)
TREE: 368

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04922
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copy: 1 id: 40346-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04939
ADNO: 486389
AUTH: PATTMAN J.D.R. ; TATE P.A.
CLSS: U
CORP: DEFENCE RESEARCH BOARD/DEFENCE CHEMICAL, BIOLOGICAL AND RADIATION
LABORATORIES(OTTOWA-CANADA)
DATE: 6605
DESC: EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design thermal
LA: CANADA
REPN: 488
SHOT: SUFFIELD 500T
TSHO: SURFACE
SUJO: 4-820-700
TITL: SURFACE BURST OF 500-TON TNT HEMISPHERICAL CHARGE (1964) PROJECT NO
4 THERMAL MEASUREMENTS (U), 25 P (U)

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04939
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 04942
ADNO: 485117
AUTH: FREEMAN B.E. ; DAVIS C.G. JR. ; LINDLEY W.B. ; MERTS A.L. ; SIMMONS
W. ; WALSHR.T. ; TOMPKINS F.C.
CLSS: U
CCDE: ZSAZSA ; DIANE
CONN: AF 29 (601) 6492
CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CALIFORNIA) ; AIR
FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6607
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
DESC: CODE THEORY
DESC: Equation of State of Air
DESC: Radiation Transport thermal
REPN: AFWL TR 65 143 VOL V ; GA 6585
SUJO: 5-200-000 ; 5-300-000 ; 9-610-000
TITL: FIREBALL PHENOMENOLOGY AND CODE DEVELOPMENT VOLUME V, MATERIAL
PROPERTIES (U),150 P (U)

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copy: 1 id: 40362-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 04955
ADNO: 484782L
AUTH: CROCKER G.R. ; TURNER T.E.
CLSS: U
CONN: AT (49 7) 1963 MOD 5
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6512
DESC: Nuclear Physics Chemistry L1
DESC: Nuclear Weapon Environment Fallout Radioproperties L1
DESC: TABULAR
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
REPN: USNRDL TR 1009
SUJO: 2-223-000 ; 2-223-100 ; 2-223-200 ; 9-010-000
TITL: CALCULATED ACTIVITIES, EXPOSURE RATES, AND GAMMA SPECTRA FOR
UNFRACTIONATED FISSION PRODUCTS (U), 177 P (U)

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

.endblock

INUM: 04965

ADNO: 635250
AUTH: PARKER W.J.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6602
DESC: Nuclear Weapon Effects materials plastics resins
DESC: Nuclear Weapon Effects materials wood paper cellulose films
DESC: Nuclear Weapon Effects materials fibers textiles
DESC: TABULAR
REPN: USNRDL TR 984
SUJO: 3-242-000 ; 3-244-000 ; 3-246-000
TITL: THERMAL HARDENING CONSIDERATIONS PERTAINING TO RESIDENTIAL AREAS (U), 47 P (U)

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copy: 1 id: 40377-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 04973
ADNO: 804782L
AUTH: POLAN M.
CLSS: U
CONN: N 228 (62479) 62185
CORP: FORD INSTRUMENT COMPANY (LONG ISLAND-NEW YORK) ; NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6609
DESC: THEORY SURVEY
REPN: USNRDL TRC 68
TITL: ANALYSIS OF THE FALLOUT PREDICTION MODELS, PRESENTED AT THE USNRDL-DASA FALLOUT SYMPOSIUM OF SEPTEMBER 1962, VOLUME 1 ANALYSIS, COMPARISON, AND CLASSIFICATION OF MODELS (U), 135 P (U)

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copy: 1 id: 40384-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 04975
ADNO: 484959L
AUTH: MACKIN J.L. ; MIKHAIL S.Z.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6512
DESC: SURVEY
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear

radiation transport

REPN: USNRDL RL 157

SUJO: 4-140-000

TITL: DISCUSSION OF THE STATE OF THE ART IN FALLOUT RESEARCH, REVIEWS AND
LECTURES NO. 157 (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: 04980

ADNO: 374004

AUTH: HOFFMAN D.

CLSS: U

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

DATE: 6603

DESC: Nuclear Weapon Effects structures aboveground components

DESC: TABULAR

DESC: Nuclear Weapon Effects structures aboveground

REPN: USNRDL TR 1011

SUJO: 3-251-100 ; 3-254-000

TEMP: 79331

TITL: COMPARISON OF FOUR METHODS FOR PREDICTING BLAST DAMAGE TO STRUCTURES
(U), 72 P(C)

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04980

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copy: 1 id: 40390-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 04984

ADNO: 374251

AUTH: BLOCKER W.

CLSS: S

CONN: AF 04 (695) 669

CORP: AEROSPACE CORPORATION (EL SEGUNDO-CALIFORNIA)

DATE: 6601

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

DESC: TABULAR SURVEY

DESC: Nuclear Weapon Environment Thermal Output

DESC: Nuclear Weapon Environment Initial Gamma energy spectrum

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum

DESC: Cross Sections x-ray

REPN: TOR 669 (6525 12) 1

TSHO: HI-ALT

SOCE: DEV-7 ; DEV-32
SUJO: 1-120-000 ; 1-200-000 ; 1-720-000 ; 2-212-000 ; 9-840-000
TEMP: 79379
TITL: RADIATION OUTPUT FROM A NUCLEAR BURST IN SPACE (U), 34 P (SRD)
TREE: 910 ; 920

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copy: 1 id: 40394-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 04985
ADNO: 374213L
AUTH: WICKLEIN H.W.
CLSS: SRD
CONN: AF 04 (694) 666
CORP: BOEING AIRCRAFT COMPANY (SEATTLE-WASHINGTON) ; AIR FORCE/SYSTEMS
COMMAND (NORTON AIR FORCE BASE-CALIFORNIA)

DATE: 6606

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects missile systems ABM

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

DESC: Nuclear Weapon Effects electronic subsystems guidance control

REPN: BSD TR 65 196

SUJO: 3-112-200 ; 3-211-000 ; 3-221-000

TEMP: 51763

TITL: ADVANCED GUIDANCE RADIATION AND VULNERABILITY STUDIES, FINAL REPORT
(U), 206 P(SRD)

TREE: 342

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04985

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copy: 1 id: 40395-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 04988
ADNO: 373635L
AUTH: KELLY C.W. III ; BASHE R. ; STENZEL W.
CLSS: SRD
CCDE: P B-1
CONN: N 228 (62479) 65246
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA) ; FORD INSTRUMENT COMPANY (LONG ISLAND-NEW
YORK)

DATE: 6606

DESC: nuclear test detection topographic changes

DESC: Nuclear Weapon Phenomenology base surge

DESC: Nuclear weapon test device physical operation construction geometry
materials components
DESC: Nuclear Weapon Phenomenology cloud shape size
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
DESC: CHARLESTON ROANOKE ; CODE THEORY EXPERIMENTAL
REPN: USNRDL TR 1003 ; N 5 397 (2)
TSHO: LOW-ALT ; SURFACE ; WATER-SURFACE ; UG-CONTAINED ; UW
SUJO: 2-224-120 ; 2-224-140 ; 2-627-000 ; 4-836-000 ; 4-910-600
TEMP: 51760
TITL: PROCEDURES FOR RELATING NUCLEAR EXPLOSION RESIDUAL SIGNATURES AS
DEPICTED IN AERIAL RECONNAISSANCE IMAGERY WITH YIELD, HEIGHT (OR
DEPTH) OF BURST, AND LOCATION OF SURFACE ZERO. PROJECT NEFARS
(NUCLEAR EFFECTS FROM ANALYSIS OF RESIDUALSIGNATURES) (U), 150 P
(SRD)

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04988

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copy: 1 id: 40398-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 04994
ADNO: 468833
AUTH: CROCKER G.R. ; CONNORS M.A.
CLSS: U
CONN: AT (49 7) 1963 MOD 2
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6506
DESC: TABULAR
DESC: Nuclear Weapon Environment radiation decay gamma decay
REPN: USNRDL TR 876
SUJO: 2-223-420
TITL: GAMMA-EMMISSION DATA FOR THE CALCULATION OF EXPOSURE RATES FROM
NUCLEAR DEBRIS, VOLUME 1, FISSION PRODUCTS (U), 79 P (U)

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copy: 1 id: 40402-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05007
ADNO: 389013
AUTH: DUNGAN W.E. ; MILES J.K. ; BELL J.R.
CLSS: U
CONN: AF 29 (601) 6643
CORP: GD/FORT WORTH DIVISION (FORT WORTH-TEXAS) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6608

DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: test instruments nuclear radiation neutron
REPN: AFWL TR 66 14 ; FZK 276
SUJO: 4-342-000 ; 4-346-000
TITL: DEVELOPMENTAL STUDIES AND RELIABILITY CONTROL IN NUCLEAR TECHNIQUES
FOR RADIATION-EFFECTS ENVIRONMENTAL TESTING, TECHNICAL REPORT, 1
OCTOBER 1964 TO 30 SEPTEMBER 1965 (U), 62 P (U)

TREE: 655

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05007

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copy: 1 id: 40410-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05011

ADNO: 639446

AUTH: JONES T.H.

CLSS: U

CCDE: ZZ

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

DATE: 6608

DESC: THEORY CODE

DESC: Nuclear Weapon Environment Fallout Radioproperties

REPN: USNRDL TR 1056

SUJO: 2-223-000

TITL: PREDICTION SYSTEM FOR THE NEUTRON-INDUCED ACTIVITY CONTRIBUTION TO
FALLOUT EXPOSURE RATES (U), 60 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 05021

ABS: This study presents information on the blast vulnerability of community water distribution pipelines, alternate operating techniques for controlling the use of water in early postattack periods, and on radiological recovery procedures and shelters available to waterworks personnel. The results of the analysis of the vulnerability of pipelines indicate that the primary mode of failure will be crushing of the pipe. The five principal alternate operating techniques considered are: (1) isolation of portions of the distribution system; (2) rationing consumer water use; (3) reducing hydrostatic operating pressures; (4) rerouting water; and (5), the utilization of auxiliary sources of water. Planning is stressed for postattack radiological recovery procedures, such as,

wet decontamination and the determination of the safe stay times for recovery personnel.

ABS: It is essential to provide shelter in locations as close as possible to the designated tasks that waterworks personnel must perform in early postattack recovery situations.

ADNO: 639710
AUTH: HARMON J.A.
CLSS: U
CONN: OCD PS 65 15
CORP: ENGINEERING SCIENCE INCORPORATED (ARCADIA-CALIFORNIA) ; NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6609
DESC: Nuclear Weapon Effects structures underground tunnels
DESC: Nuclear Warfare Postattack Recovery utilities L1
DESC: Nuclear Weapon Environment Fallout Radioproperties
DESC: THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation
REPN: USNRDL TRC 65
SUJO: 2-223-000 ; 3-261-000 ; 3-312-000 ; 3-445-000
TITL: CONSIDERING RADIOLOGICAL RECOVERY PROCEDURES, ALTERNATE DISTRIBUTION TECHNIQUES FOR SAVING WATER, AND ANALYSIS OF BLAST VULNERABILITY OF SELECTED DISTRIBUTION SYSTEMS, PHASE II, PROTOTYPE MANUAL ON CIVIL DEFENSE ASPECTS OF WATERWORKS OPERATIONS, FINAL REPORT (U), 95 P (U)

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copy: 1 id: 40420-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05023
ADNO: 375314L
AUTH: CAPUTI R. ; KAULUM K.W.
CLSS: C
CCDE: ZZ
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6607
DESC: nuclear test detection debris fallout
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: Nuclear Weapon Environment Ground Shock groundwater effects
DESC: THEORY CODE
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
REPN: USNRDL TR 1055
TSHO: UG-CONTAINED
SUJO: 2-223-100 ; 2-620-200 ; 2-627-000 ; 4-919-000
TEMP: 51841
TITL: LOCATION AND IDENTIFICATION OF UNDERBOTTOM NUCLEAR EXPLOSIONS, PART 1 (SHORT TITLE) (U), 77 P (S)

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

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INUM: 05059
ADNO: 805818
AUTH: NICOLET W.E. ; KIRCH H.R.
CLSS: U
CCDE: HATA II
CONN: AF 33 (615) 2898
CORP: LOCKHEED MISSILES AND SPACE COMPANY (PALO ALTO-CALIFORNIA) ; AIR
FORCE/FLIGHT DYNAMICS LABORATORY (WRIGHT-PATTERSON AIR FORCE
BASE-OHIO)
DATE: 6610
DESC: Radiation Transport thermal
DESC: CODE THEORY
DESC: ignition flammability ablation
REPN: LMSC 1 29 66 1 ; AFFDL TR 66 101
SUJO: 9-610-000 ; 9-730-000
TITL: USERS MANUAL FOR THE HATA-II COMPUTER PROGRAM (U), 182 P (U)

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

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INUM: 05110
AUTH: COLLINS D. ; KAY H.
CLSS: U
CONN: AF 04 (694) 960
CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CALIFORNIA)
DATE: 6612
DESC: Simulation Facilities Techniques TREE
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources
REPN: GACD 7596
SUJO: 3-222-000 ; 4-241-000 ; 4-272-000
TITL: TEST OF SOME INTEGRATED CIRCUITS FOR GENERAL ELECTRIC (U), 44 P (U)
TREE: 320

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copy: 1 id: 40472-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent

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INUM: 05112
ADNO: 643019
AUTH: BRACCIARENTI J.
CLSS: U
CORP: NAVY/NAVAL APPLIED SCIENCE LABORATORY (BROOKLYN-NEW YORK)
DATE: 6609
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects structures aboveground interior furnishings
REPN: 1
SUJO: 3-251-200
TITL: WINDOW AND WINDOW SCREENS AS MODIFIERS OF THERMAL RADIATION RELEASED
IN NUCLEAR DETONATIONS (U), 17 P (U)

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

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INUM: 05113
ADNO: 642639
AUTH: MILLER C.F. ; LARIVIERE P.D.
CLSS: U
CONN: N 228 (62479) 69928 (OCD)
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CALIFORNIA)
DATE: 6604
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: Nuclear Warfare Postattack Recovery civilians population L1
DESC: THEORY
SUJO: 3-312-000 ; 3-442-000
TITL: INTRODUCTION TO LONG-TERM BIOLOGICAL EFFECTS OF NUCLEAR WAR (U), 156
P (U)

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copy: 1 id: 40475-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05114
ADNO: 642790
AUTH: PRYOR A.J. ; YUILL C.H.
CLSS: U
CONN: N 228 (62479) 68665
CORP: SOUTHWEST RESEARCH INSTITUTE (SAN ANTONIO-TEXAS) ; NAVY/NAVAL
RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6609
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects structures aboveground cities
DESC: Nuclear Weapon Effects on animals thermal burns heating

REPN: NRDL TRC 63
SUJO: 3-252-000 ; 3-313-100
TITL: MASS FIRE LIFE HAZARD, FINAL REPORT (U), 180 P (U)

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05114
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copy: 1 id: 40476-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05120
ADNO: 807640
AUTH: NIX J.A. ; BANKS N.E.
CLSS: U
CCDE: RAD-CHEM
CORP: ARMY/BALLISTIC RESEARCH LABORATORIES (ABERDEEN-MARYLAND)
DATE: 6610
DESC: CODE
DESC: Radiation Transport thermal
REPN: BRL TN 1633
SUJO: 9-610-000
TITL: NOTES ON THE RAD-CHEM CODE, A RADIATION TRANSPORT CODE (U), 50 P (U)

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05120
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copy: 1 id: 40481-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05147
ADNO: 373282L
AUTH: SHNIDER R.W.
CLSS: SRD
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6603
DESC: THEORY TABULAR
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence

REPN: USNRDL TR 993
TSHO: SURFACE
SOCE: DEV-22 ; DEV-35 ; DEV-36
SUJO: 1-110-000 ; 1-120-000
TEMP: 51952
TITL: NEUTRON DOSE AT THE SURFACE FROM 1-10 MEGATON SURFACE BURSTS (U), 30
P (SRD)

TREE: 920
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05157
ADNO: 800244L
AUTH: MORIARITY T.M. ; SCHUMCHYK M.J. ; SCHMOKE M.A. ; SCHULMAN E.L. ;
POLLOCK E.O.
CLSS: U
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND)
DATE: 6608
DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: test instruments nuclear radiation gamma
REPN: NDL TR 80
SUJO: 3-312-000 ; 4-242-000 ; 4-341-000
TITL: FALLOUT SHIELDING CHARACTERISTICS OF COMBAT VEHICLES, M116
AMPHIBIOUS CARGO CARRIER, M114 RECONNAISSANCE AND COMMAND VEHICLE,
M108 SELF-PROPELLED HOWITZER, M88 RECOVERY VEHICLE (U), 139 P (U)

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

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INUM: 05160
ADNO: 803733L
AUTH: SPOTTS R.L. ; SWANEY G.A. ; BREVDY J.
CLSS: U
CCDE: ZZ
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6610
DESC: Nuclear Weapon Effects structures aboveground buildings
DESC: Nuclear Weapon Effects animals
DESC: Nuclear Weapon Effects structures shipyards harbors
DESC: Target Analysis civilians population at risk casualties L1
DESC: Nuclear Weapon Effects structures hard launch sites structures
DESC: Target Analysis cities L1
DESC: CODE
DESC: Nuclear Weapon Effects land transport
REPN: USNRDL TM 167
SUJO: 3-116-100 ; 3-123-000 ; 3-150-000 ; 3-251-000 ; 3-310-000 ;
3-433-000 ; 3-434-000
TITL: INSTRUCTIONS FOR THE ASSEMBLY OF THE TARGET VULNERABILITY STUDIES
(TVS) DATA BASE (U), 125 P (U)

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copy: 1 id: 40516-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05165

AUTH: SULLIVAN J.M. JR. ; FENIGER E.J. ; GAMBILL B. ; HAMILTON M.E. ;

KRASNO P.M. ; MCKEE J.W. ; RIDENOUR N.R.

CLSS: SRD

CCDE: WRECS-II

CONN: DCA 47

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

DATE: 6608

DESC: Nuclear Weapon Phenomenology cloud shape size

DESC: CODE THEORY

DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry

general descriptions

REPN: 65 TMP 1

SUJO: 2-224-140 ; 2-311-000

TEMP: 47133

TITL: WRECS-II A FORTRAN II CODE FOR COMPUTATION OF WEAPON RADIATION
EFFECTS ON COMMUNICATION SYSTEMS, VOLUME IX SCALING RELATIONSHIPS
USED IN WRECS II, FINAL REPORT (U), 78 P (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05194

ADNO: 650107

AUTH: WELLS M.B. ; COLLINS D.G. ; CUNNINGHAM K.

CLSS: U

CONN: DA 28 043 AMC 00240 (E)

CORP: RADIATION RESEARCH ASSOCIATES INCORPORATED (FORT WORTH-TEXAS) ;
ARMY/ELECTRONICS COMMAND (FORT MONMOUTH-NEW JERSEY)

DATE: 6609

DESC: THEORY EXPERIMENTAL

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air

DESC: Radiation Transport visible

REPN: RAA T 63 1 ; ECOM 00240 1 I

SUJO: 5-200-000 ; 9-630-000

TITL: MONTE CARLO STUDIES, VOLUME 1, LIGHT TRANSPORT IN THE ATMOSPHERE,
ANNUAL REPORT (U), 95 P (U)

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copy: 1 id: 40551-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05195
ADNO: 650108
AUTH: CUNNINGHAM K. ; WELLS M.B. ; COLLINS D.G.
CLSS: U
CCDE: LITE
CONN: DA 28 043 AMC 00240 (E)
CORP: RADIATION RESEARCH ASSOCIATES INCORPORATED (FORT WORTH-TEXAS) ;
ARMY/ELECTRONICS COMMAND (FORT MONMOUTH-NEW JERSEY)
DATE: 6609
DESC: CODE THEORY TABULAR
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
DESC: Radiation Transport visible
REPN: RAA T 63 2 ; ECOM 00240 1 II
SUJO: 5-200-000 ; 9-630-000
TITL: MACHINE CODES FOR CALCULATION OF AEROSOL SCATTERING AND ABSORPTION
COEFFICIENTS, VOLUME II, LIGHT TRANSPORT IN THE ATMOSPHERE, ANNUAL
REPORT (U), 124 P (U)

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copy: 1 id: 40552-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05196
ADNO: 650109
AUTH: COLLINS D.G. ; WELLS M.B. ; CUNNINGHAM K.
CLSS: U
CCDE: LITE
CONN: DA 28 043 AMC 00240 (E)
CORP: RADIATION RESEARCH ASSOCIATES INCORPORATED (FORT WORTH-TEXAS) ;
ARMY/ELECTRONICS COMMAND (FORT MONMOUTH-NEW JERSEY)
DATE: 6609
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
DESC: CODE TABULAR
DESC: Radiation Transport visible
REPN: RAA T 63 3 ; ECOM 00240 1 III
SUJO: 5-200-000 ; 9-630-000
TITL: UTILIZATION INSTRUCTIONS FOR THE LITE CODES, VOLUME III, LIGHT
TRANSPORT IN THE ATMOSPHERE, ANNUAL REPORT (U), 207 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 05231
AUTH: FENIGER E.J.
CLSS: U
CCDE: WRECS II
CONN: DCA 47
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CALIFORNIA)
DATE: 6611
DESC: Nuclear Weapon Effects Communications Systems MF HF
DESC: CODE
REPN: R 65 TMP 1 (1)
SUJO: 2-322-200
TITL: WRECS A FORTRAN II CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS
ON COMMUNICATION SYSTEMS, VOLUME I GENERAL PROGRAM DESCRIPTION (U),
107 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05233
ADNO: 379848L
AUTH: ABRAHAMSON G.R. ; LINDBERG H.E.
CLSS: SRD-1
CONN: AF 04 (694) 824
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CALIFORNIA) ; AIR
FORCE/SYSTEMS COMMAND (NORTON AIR FORCE BASE-CALIFORNIA) ; AVCO
CORPORATION (WILMINGTON-MASSACHUSETTS)
DATE: 6609
DESC: Nuclear Weapon Effects reentry systems RV
DESC: THEORY EXPERIMENTAL
REPN: BSD TR 66 372 (12) ; AVMSD 0339 66 RR (12)
TSHO: HI-ALT
SUJO: 3-113-000
SYMJ: SYSTEMS COMMAND, NORTON AIR FORCE BASE, CALIFORNIA 92409
TEMP: 53164
TITL: RADIATION DAMAGE STUDY (RADS), VOLUME XII SPECIAL PROBLEMS IN
STRUCTURAL RESPONSE OF REENTRY VEHICLES, FINAL REPORT (U), 63 P
(SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05249
ADNO: 489920
AUTH: HEROD J.V.
CLSS: U
CCDE: FIGLD
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO)
DATE: 6609
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation
DESC: CODE
REPN: AFWL TR 66 89
SUJO: 5-800-000
TITL: COMPUTATIONAL MODEL OF THE GEOMAGNETIC FIELD, 1 JANUARY 1966 THROUGH
1 JULY 1966 (U), 72 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 05252
ADNO: 380514L
AUTH: AVERELL J.P. ; THEOPHANIS G.A.
CLSS: SRD-1
CONN: AF 04 (694) 824
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS) ; AIR FORCE/SYSTEMS
COMMAND (NORTON AIR FORCE BASE-CALIFORNIA)
DATE: 6609
DESC: Nuclear Weapon Effects materials plastics resins
DESC: THEORY EXPERIMENTAL
DESC: Simulation Facilities Techniques blast shock mechanical testing L1
DESC: Nuclear Weapon Effects materials metals alloys
DESC: Nuclear Weapon Effects reentry systems RV
DESC: Simulation Facilities Techniques x-ray effects
DESC: Simulation Facilities Techniques thermal optical
REPN: AVMSD 0339 66 RR (9) ; BSD TR 66 372 (9)
TSHO: HI-ALT
SUJO: 3-113-000 ; 3-243-000 ; 3-244-000 ; 4-214-000 ; 4-231-000 ;
4-280-000
TEMP: 53322
TITL: RADIATION DAMAGE STUDY (RADS), FINAL REPORT, VOL. IX SIMULATION TEST
TECHNIQUES (U), 428 P (SRD)

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

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INUM: 05253
ADNO: 380515L
AUTH: BURKE H.B. JR.
CLSS: SRD-1
CONN: AF 04 (694) 824
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS) ; AIR FORCE/SYSTEMS
COMMAND (NORTON AIR FORCE BASE-CALIFORNIA)
DATE: 6609
DESC: Nuclear RDT&E Research Program Descriptions blast shock programs L1
DESC: test instruments test hardware pressure stress
DESC: test instruments thermal temperature
DESC: SURVEY
DESC: test instruments test hardware velocity measurement
DESC: test instruments test hardware acceleration measurement
REPN: BSD TR 66 372 (10) ; AVMSD 0339 66 RR (10)
SUJO: 4-110-000 ; 4-311-000 ; 4-314-000 ; 4-315-000 ; 4-384-000
TEMP: 53323
TITL: RADIATION DAMAGE STUDY (RADS), FINAL REPORT, VOLUME X SPECIAL
INSTRUMENTATION REQUIREMENTS (U), 78 P (SRD)

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

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INUM: 05256
AUTH: PROFIO A.E. ; ANTUNEZ H.M. ; WILLIAMSON T.G.
CLSS: U
CONN: DA 49 146 XZ 482 (DASA)
CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CALIFORNIA)
DATE: 6610
DESC: EXPERIMENTAL THEORY
DESC: Cross Sections neutron
DESC: Simulation Facilities Techniques TREE
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources
REPN: GA 7470
SUJO: 4-241-000 ; 4-272-000 ; 9-820-000
TITL: MEASUREMENTS OF THE NEUTRON ANGULAR FLUX SPECTRUM IN GRAPHITE,
ANNUAL REPORT, OCTOBER 1, 1965 TO SEPTEMBER 30, 1966 (U), 266 P (U)
TREE: 412

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

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INUM: 05258

ADNO: 380121
AUTH: BARTHOLOMEW H.G. ; EMERLING R.A.
CLSS: C
CONN: DA 04 495 AMC 498 (X)
CORP: ELECTRO-OPTICAL SYSTEMS INCORPORATED (PASADENA-CALIFORNIA)
DATE: 6608
DESC: THEORY EXPERIMENTAL
DESC: test instruments nuclear radiation gamma
REPN: EOS 5840 FINAL
SUJO: 4-341-000
TEMP: 53236
TITL: GAMMA RAY SCANNER, FINAL REPORT (U), 126 P (S)
TREE: 651

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05258
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copy: 1 id: 40587-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05259
ADNO: 379680L
AUTH: ATKINSON A.L.
CLSS: SRD-1
CCDE: OSCAR
CONN: AF 04 (694) 824
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS) ; AIR FORCE/SYSTEMS
COMMAND (NORTON AIR FORCE BASE-CALIFORNIA)
DATE: 6609
DESC: CODE
DESC: Cross Sections x-ray
REPN: BSD TR 66 372 (8) ; AVMSD 0339 66 RR (8)
SUJO: 9-840-000
TEMP: 53130
TITL: RADIATION DAMAGE STUDY (RADS), FINAL REPORT, VOLUME VIII OSCAR CODE
(U), 86 P (SRD)

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05259
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copy: 1 id: 40588-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05277
ADNO: 380096L
AUTH: HERSHAFT A. ; STEIN E.
CLSS: SRD-1
CONN: AF 04 (694) 824
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS) ; AIR FORCE/SYSTEMS
COMMAND (NORTON AIR FORCE BASE-CALIFORNIA)

DATE: 6609
DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: Nuclear Weapon Effects reentry systems RV
DESC: TABULAR
DESC: Nuclear Weapon Effects materials plastics resins
DESC: Cross Sections x-ray
REPN: BSD TR 66 372 (5) ; AVMSD 0339 6 RR (5)
SUJO: 3-113-000 ; 3-244-000 ; 9-710-000 ; 9-840-000
TEMP: 53210
TITL: RADIATION DAMAGE STUDY (RADS) FINAL REPORT, VOLUME V, MATERIAL
HANDBOOK (U), 176 P (SRD)

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copy: 1 id: 40595-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05284
ADNO: 650882
AUTH: WANG S.P.
CLSS: U
CONN: AF 19 (628) 4763
CORP: ELECTRO-MECHANICAL RESEARCH INCORPORATED (PRINCETON-NEW JERSEY)
DATE: 6607
DESC: THEORY EXPERIMENTAL
DESC: test instruments UV
REPN: AFCRL 66 528
SUJO: 4-381-000
TITL: EXTREME ULTRAVIOLET RADIATION DETECTORS (U), 128 P (U)

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copy: 1 id: 40602-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05290
AUTH: BADE W.L.
CLSS: SRD 1
CCDE: DAFFER
CONN: AF 04 694 824
CORP: AVCO MISSILES (WILMINGTON-MA)
DATE: 6609
DESC: Cross Sections x-ray L1
DESC: Radiation Transport x-ray L1 162 L1
DESC: RADS ; CODE THEORY TABULAR
REPN: AVMSD 0339 66 372 V 3 ; BSD TR 66 372 V 3
SUJO: 9-640-000 ; 9-840-000
TEMP: 53211

TITL: RADIATION DAMAGE STUDY RADS FINAL REPORT, VOLUME III, RADIATION
TRANSPORT AND DESPOSITION DAFFER (U), 310 P, (SRD)

TREE: 980

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05290

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copy: 1 id: 40606-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05331

ADNO: 641664

AUTH: FERGUSON J.M.

CLSS: U

CCDE: ZZ

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

DATE: 6609

DESC: Nuclear Weapon Effects on animals ionizing radiation

DESC: Cross Sections gamma

DESC: THEORY CODE

REPN: USNRDL TR 1079

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

TITL: COMPUTER CODE FOR ESTIMATING THE PROTECTION OFFERED BY SHIPS AGAINST
FALLOUT, BASE SURGE, OR WATER POOL RADIATION (U), 21 P (U)

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copy: 1 id: 40622-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05332

ADNO: 637685

AUTH: HAGGMARK L.G.

CLSS: U

CCDE: MONACO

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

DATE: 6605

DESC: THEORY CODE

DESC: Cross Sections gamma

DESC: Radiation Transport gamma

REPN: USNRDL TR 1038

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

TITL: MONTE CARLO TECHNIQUE APPLIED TO THE CALCULATION OF GAMMA-RAY
TRANSPORT IN COMPARTMENTED STRUCTURES (U), 29 P (U)

TREE: 411

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copy: 1 id: 40623-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05337
ADNO: 382837L
AUTH: MOONEY L.G. ; WELLS M.B.
CLSS: SRD
CONN: 2267
CORP: RADIATION RESEARCH ASSOCIATES INCORPORATED (FORT WORTH-TEXAS)
DATE: 6612
DESC: Cross Sections neutron
DESC: Nuclear Weapon Effects structures underground models plates slabs
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: TABULAR
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution
REPN: RRA T 64
SUJO: 1-120-000 ; 1-130-000 ; 3-269-300 ; 9-820-000
TEMP: 53554
TITL: SHIELDING EFFECTIVENESS OF SINGLE COMPARTMENT CONCRETE UNDERGROUND
STRUCTURES AGAINST NEUTRONS FROM NUCLEAR WEAPONS (U), 96 P (SRD)
TREE: 412

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copy: 1 id: 40624-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05363
ADNO: 813456L
AUTH: ABRAHAMSON G.R. ; FLORENCE A.L. ; LINDBERG H.E.
CLSS: U
CONN: AF 04 (694) 824
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CALIFORNIA) ; AIR
FORCE/SYSTEMS COMMAND (NORTON AIR FORCE BASE-CALIFORNIA)
DATE: 6609
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings
DESC: Nuclear Weapon Effects structures aboveground models plates slabs
DESC: Nuclear Weapon Effects structures aboveground models beams
DESC: Solid Mechanics stress-strain
DESC: Nuclear Weapon Effects reentry systems RV
REPN: BSD TR 66 372 (13) ; AVMSD 0339 66 RR (13)
SUJO: 3-113-000 ; 3-259-300 ; 3-259-400 ; 3-259-500 ; 9-230-000
TITL: RADIATION DAMAGE STUDY (RADS), VOLUME XIII-DYNAMIC RESPONSE OF
BEAMS, PLATES, AND SHELLS TO PULSE LOADS, FINAL REPORT (U), 248 P
(U)

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05363
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copy: 1 id: 40641-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05385
ADNO: 378213L
AUTH: BUTLER C.P. ; ALGER R.S.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6608
DESC: nuclear test detection methods hardware
DESC: Nuclear Weapon Environment Ground Shock earth magnetization
DESC: SURVEY
DESC: Solid Mechanics stress-strain
DESC: equation of state heat of vaporization thermal conductivity opacity
REPN: USNRDL TR 1058
SUJO: 2-620-100 ; 4-910-000 ; 9-230-000 ; 9-710-000
TEMP: B8575
TITL: SURVEY OF SOLID STATE TECHNIQUES FOR DETECTING UNDERGROUND
DETONATIONS (U), 159 P (C)

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05385
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copy: 1 id: 40659-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05418
AUTH: KRONENBERG S.
CLSS: U
CORP: ARMY/ELECTRONICS COMMAND (FORT MONMOUTH-NEW JERSEY)
DATE: 6609
DESC: THEORY EXPERIMENTAL
DESC: test instruments nuclear radiation dosimeters radiacs
REPN: 3
SUJO: 4-346-000
TITL: HIGH-INTENSITY RADIATION DOSIMETRY WITH SEMIRAD (SECONDARY-ELECTRON
MIXES-RADIATION DOISMETERS), A MONOGRAPH ON (U), 93 P (U)
TREE: 655

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05418
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copy: 1 id: 40688-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05424
ADNO: 381005L
AUTH: BADE W.L.
CLSS: SRD
CONN: AF 04 (694) 824
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS) ; AIR FORCE/SYSTEMS
COMMAND (NORTON AIR FORCE BASE-CALIFORNIA)
DATE: 6609
DESC: Nuclear Weapon Effects materials not systems associated
DESC: THEORY TABULAR SURVEY
DESC: Nuclear Weapon Effects reentry systems RV
DESC: equation of state heat of vaporization thermal conductivity opacity
REPN: AVMSD 0339 66 RR VOL 2 ; BSD TR 66 372
TSHO: HI-ALT
SUJO: 3-113-000 ; 3-240-000 ; 9-710-000
TEMP: 53384
TITL: RADIATION DAMAGE STUDY (RADS), VOLUME II SURVEY OF X-RAY
PHENOMENOLOGY PREDICTION TECHNIQUES, FINAL REPORT (U), 478 P (SRD)

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copy: 1 id: 40692-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05428
AUTH: FRENCH R.L. ; PRICE J.H. ; TOMPKINS K.W.
CLSS: U
CONN: DA 23 072 AMC 332 (X)
CORP: RADIATION RESEARCH ASSOCIATES INCORPORATED (FORT WORTH-TEXAS)
DATE: 6606
DESC: Cross Sections gamma
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: EXPERIMENTAL
REPN: RRA M 62
SHOT: SMALLBOY
TSHO: SURFACE
SUJO: 2-223-200 ; 9-830-000
TITL: ANALYSIS OF A SHIELDING EXPERIMENT PERFORMED IN A REAL FALLOUT FIELD
(U), 20 P(U)
TREE: 411

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copy: 1 id: 40695-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05441
ADNO: 805092
AUTH: RAPP R.R.
CLSS: U
CONN: F 44620 67 C 0045
CORP: RAND CORPORATION (SANTA MONICA-CALIFORNIA)
DATE: 6612
DESC: SUMMARY
DESC: Nuclear Weapon Environment fallout down fraction
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
REPN: RM 5164 PR
SUJO: 2-223-200 ; 2-225-200
TITL: ERROR IN THE PREDICTION OF FALLOUT RADIATION (U), 10 P (OUO)

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05441

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copy: 1 id: 40702-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05468-191
AUTH: GUTHALS P.R.
CLSS: SRD
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NEW MEXICO)
DATE: 6601
DESC: SUMMARY
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport
DESC: Nuclear Weapon Phenomenology cloud development rise
TSHO: LOW-ALT ; SURFACE ; WATER-SURFACE
SUJO: 2-223-200 ; 2-224-100 ; 4-140-000
SYMJ: JOURNAL OF MISSILE DEFENSE RESEARCH (U), VOLUME 4, NUMBER 2 (SRD), P
191, FALL1966
TITL: DESCRIPTION OF CLOUD RISE AND AIR SAMPLING TECHNIQUES (U), 4 P (SRD)

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05468-191

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

.endblock

INUM: 05468-202
AUTH: GUTMACHER R.G. ; HIGGINS G.H.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6601
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout Formation mechanicms
DESC: Nuclear Weapon Environment Ground Shock craters excavations

DESC: Nuclear Weapon Environment fallout fractionation
DESC: Nuclear Weapon Phenomenology cloud Motion
DESC: Nuclear Weapon Environment dust moisture injection atmosphere
SHOT: APACHE ; ZUNI ; LACROSSE ; KOON ; MOHAWK ; TEWA ; BRAVO ; SEDAN ;
PALANQUIN
TSHO: WATER-SURFACE ; UG-VENTED
SUJO: 2-221-000 ; 2-222-400 ; 2-223-500 ; 2-224-000 ; 2-625-000
SYMJ: JOURNAL OF MISSILE DEFENSE RESEARCH (U), VOLUME 4, NUMBER 2 (SRD), P
202, FALL1966
TITL: TOTAL MASS AND CONCENTRATION OF PARTICLES IN DUST CLOUDS (U), 11 P
(SRD)

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05468-202

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copy: 1 id: 40725-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05481
AUTH: LOWRY J.W. ; SCHERMERHORN D.A.
CLSS: SRD
CCDE: CONATX
CONN: AF 04 (695) 669
CORP: AEROSPACE CORPORATION (SAN BERNARDINO-CALIFORNIA)
DATE: 6606
DESC: CODE THEORY
DESC: Radiation Transport gamma
DESC: Radiation Transport x-ray
DESC: Cross Sections x-ray
DESC: Cross Sections gamma
REPN: TOR 669 (S 6815 71) 12
SUJO: 9-620-000 ; 9-640-000 ; 9-830-000 ; 9-840-000
TEMP: 53900
TITL: PROGRAM FOR THE CALCULATION OF MASS ATTENUATION FUNCTIONS FOR X-RAY
AND GAMMA-RAY SOURCES (U), 56 P (SRD)

TREE: 411 ; 413

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05481

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copy: 1 id: 40739-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05482
ADNO: 376712
AUTH: KELLY C.W. III ; PARKER D.C. ; NOSWORTHY C.T. ; CANTRELL J.L.
CLSS: C
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6604

DESC: nuclear test detection infrared detection
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions
DESC: EXPERIMENTAL
REPN: USNRDL TR 952
SHOT: SUFFIELD 500T
TSHO: SURFACE
SUJO: 2-629-000 ; 4-910-500
TEMP: B8572
TITL: MULTISENSOR AERIAL RECONNAISSANCE OF A 500-TON HIGH EXPLOSIVE
SURFACE DETONATION (OPERATION SNOW BALL) (U), 69 P (C)

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05482
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copy: 1 id: 40740-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05601
ADNO: 380148
AUTH: GALBRAITH F.W.
CLSS: CFRD
CONN: PO 5216503
CORP: TRW SYSTEMS (REDONDO BEACH-CALIFORNIA) ; LAWRENCE RADIATION
LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6609
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
REPN: UCRL 13264 ; AD 380148
SHOT: EMERSON ; TAPESTRY
TSHO: UG-CONTAINED
SUJO: 2-621-000 ; 2-622-000 ; 2-627-000
TEMP: B8573
TITL: SHOCK SPECTRUM MEASUREMENTS FOR EMERSON AND TAPESTRY EVENTS (U), 55
P (CFRD)

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05601
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05608
ADNO: 367349
CLSS: SRD
CONN: AF 29 (601) 6489

CORP: IBM CORPORATION (OWEGO-NEW YORK) ; AIR FORCE/WEAPONS LABORATORY
(KIRTLAND AIR FORCE BASE-NEW MEXICO)

DATE: 6510

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network

REPN: AFWL TR 65 101 SUPP

SHOT: WISHBONE ; SILVER BELL

SUJO: 1-710-000 ; 3-219-000

TEMP: 53943

TITL: AUTOMATED DIGITAL COMPUTER PROGRAM FOR DETERMINING RESPONSES OF
ELECTRONIC SYSTEMS TO TRANSIENT NUCLEAR RADIATION, SUPPLEMENT TO
FINAL REPORT (U), 34 P (SRD)

TREE: 330

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05608

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05643

ADNO: 382125L

AUTH: BERARDI M.P. ; WOLFF E. ; DESESA M.A.

CLSS: SRD

CONN: AF 04 (694) 824

CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS) ; AIR FORCE/SYSTEMS
COMMAND (NORTON AIR FORCE BASE-CALIFORNIA)

DATE: 6609

DESC: Nuclear Weapon Effects reentry systems penails

DESC: THEORY

REPN: BSD TR 66 372 14 ; AVMSD 0339 66 RR 14 ; AD 382125L

SHOT: MIDI MIST ; HUDSON SEAL

TSHO: HI-ALT

SUJO: 3-117-000

TEMP: 53929 VOL 14

TITL: PRETEST ANALYSIS OF CHAFF, VOLUME XIV, RADIATION DAMAGE STUDY
(RADS), FINAL REPORT (U), 94 P (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05644

ADNO: 382124L

AUTH: BJORK R.L. ; WAGNER M.H. ; APRAHAMIAN R.

CLSS: SRD
CONN: AF 04 (694) 824
CORP: SHOCK HYDRODYNAMICS INCORPORATED (SHERMAN OAKS-CALIFORNIA) ; AVCO
CORPORATION (WILMINGTON-MASSACHUSETTS) ; AIR FORCE/SYSTEMS COMMAND
(NORTON AIR FORCE BASE-CALIFORNIA)
DATE: 6609
DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: THEORY
DESC: Fluid Mechanics hydrodynamics
REPN: BSD TR 66 372 11 ; AVMSD 0339 66 RR 11 ; AD 382124L
SUJO: 9-410-000 ; 9-710-000
TEMP: 53930
TITL: EQUATION OF STATE AND ONE-DIMENSIONAL CHARACTERISTIC CODE STUDIES,
VOLUME XI, RADIATION DAMAGE STUDY (RADS), FINAL REPORT (U), 107 P
(SRD)

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05644
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copy: 1 id: 40762-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05708
ADNO: 383000L
AUTH: YOS J.M. ; BADE W.L.
CLSS: SRD
CCDE: XIP
CONN: AF 04 (694) 824
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS) ; AIR FORCE/SYSTEMS
COMMAND (NORTON AIR FORCE BASE-CALIFORNIA)
DATE: 6609
DESC: CODE THEORY
DESC: Fluid Mechanics hydrodynamics
DESC: Nuclear Weapon Effects materials not systems associated
DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: Nuclear Weapon Effects reentry systems RV
REPN: AVMSD 0339 66 RR VOL 4 ; BSD TR 66 372 4
TSHO: HI-ALT
SUJO: 3-113-000 ; 3-240-000 ; 9-410-000 ; 9-710-000
TEMP: 55070
TITL: ONE-DIMENSIONAL MATERIAL RESPONSE, THE XIP CODE, VOLUME IV,
RADIATION DAMAGE STUDY (RADS), FINAL REPORT (U), 318 P (SRD)

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05708
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copy: 1 id: 40776-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05748

AUTH: BOWMAN W.C. ; CALDWELL R.S.
CLSS: U
CONN: AF 30 (602) 3585
CORP: BOEING AIRCRAFT COMPANY (SEATTLE-WASHINGTON)
DATE: 6512
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
REPN: D2 90696 1 ; RADC TR 65 355
SUJO: 3-222-000
TITL: TRANSIENT RADIATION EFFECTS ON MICROELECTRONICS, FINAL REPORT (U),
89 P (U)

TREE: 320

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05750

AUTH: RAYMOND J.P. ; STEELE E.J. ; LAWRENCE E.G. ; CHANG W.W.

CLSS: U

CONN: AF 30 (602) 3589

CORP: NORTHROP/NORTRONICS (NEWBURY PARK-CALIFORNIA)

DATE: 6512

DESC: Simulation Facilities Techniques TREE

DESC: EXPERIMENTAL

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits

REPN: NARD 65 10R ; RADC TR 65 385 VOL 1

SUJO: 3-222-000 ; 4-170-000 ; 4-272-000

TITL: STUDY OF TRANSIENT RADIATION EFFECTS ON MICROELECTRONICS, VOLUME 1.
INTRODUCTION, EXPERIMENTAL STUDY, DIGITAL LOGIC GATE STUDY (U), 418
P (U)

TREE: 320

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copy: 1 id: 40813-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05751

AUTH: RAYMOND J.P. ; STEELE E.J. ; LAWRENCE E.G. ; CHANG W.W.

CLSS: U

CONN: AF 30 (602) 3589

CORP: NORTHROP/NORTRONICS (NEWBURY PARK-CALIFORNIA)

DATE: 6512

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits

REPN: NARD 65 10R ; RADC TR 65 385 VOL 11
SUJO: 3-222-000
TITL: STUDY OF TRANSIENT RADIATION EFFECTS ON MICROELECTRONICS, VOL 11.
FLIP-FLOP STUDY, AMPLIFIER STUDY, SUPPLEMENTARY CIRCUIT
INVESTIGATION, CONCLUSIONS AND RECOMMENDATIONS, FINAL REPORT (U),
416 P (U)

TREE: 320

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05751
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copy: 1 id: 40814-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05817
ADNO: 809134
AUTH: CASSIDY S.H.
CLSS: U
CCDE: GLENC
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6612
DESC: Nuclear Weapon Environment Fallout Formation mechanics
DESC: Nuclear Weapon Environment Fallout Radioproperties
DESC: Nuclear Weapon Environment Fallout Particles
DESC: Nuclear Weapon Phenomenology cloud Motion
DESC: Nuclear Weapon Environment fallout Deposition
DESC: CODE
REPN: USNRDL TR 67 1
SUJO: 2-221-000 ; 2-222-000 ; 2-223-000 ; 2-224-000 ; 2-225-000
TITL: FORTRAN STATEMENT OF THE CLOUD RISE AND THE PARTICLE ACTIVITY
MODULES FOR A GENERALIZED LAND FALLOUT MODEL COMPUTER PROGRAM (U),
200 P (U)

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05817
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copy: 1 id: 40866-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05822
AUTH: BOARDMAN C.R.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6609
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions

REPN: UCRL 50150 ; TID 4500 ; UC 35

SHOT: SHOAL
TSHO: UG-CONTAINED
SUJO: 2-627-000 ; 2-629-000
TITL: MEASUREMENT OF THE VOLUME OF VOID IN THE SHOAL CHIMNEY (U), 13 P (U)

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05822
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copy: 1 id: 40871-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05823
AUTH: BOARDMAN C.R.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6610
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
REPN: UCRL 50177 ; TID 4500 ; UC 35
SHOT: HARDHAT
TSHO: UG-CONTAINED
SUJO: 2-627-000 ; 2-629-000
TITL: SOME CHARACTERISTICS OF THE HARDHAT CHIMNEY AND SURROUNDING WALL
ROCK (U), 17 P (U)

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copy: 1 id: 40872-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05824
AUTH: BOARDMAN C.R. ; MEYER G.L. ; RABB D.D.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6612
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
REPN: TID 4500 ; UC 35 ; UCRL 50149
SHOT: HANDCAR
TSHO: UG-CONTAINED
SUJO: 2-223-200 ; 2-627-000 ; 2-629-000
TITL: MACRODEFORMATION RESULTING FROM THE HANDCAR EVENT (U), 52 P (U)

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copy: 1 id: 40873-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05835
ADNO: 809059L
AUTH: YOUNG F.H. ; BUNTZEN R.R. ; KILLEEN P.A. ; WONG P.W.
CLSS: U
CCDE: ICARUS
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6610
DESC: CODE THEORY TABULAR
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
REPN: USNRDL TR 1108
TSHO: UW
SUJO: 2-223-200
TITL: MONTE CARLO GAMMA EXPOSURE RATE COMPUTATION MODEL FOR NUCLEAR WEAPONS EFFECTS STUDIES (U), 141 P (U)

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05835

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copy: 1 id: 40883-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05866
AUTH: ARNSTEN M.E.
CLSS: U
CONN: AT (04 3) 414
CORP: RAND CORPORATION (SANTA MONICA-CALIFORNIA)
DATE: 6611
DESC: THEORY TABULAR
DESC: Nuclear Weapon Effects on animals ionizing radiation
REPN: RM 4707 TAB
SUJO: 3-312-000
TITL: SENSITIVITY OF MORTALITY ESTIMATES TO ENCERTAINTIES IN SOME NUCLEAR DAMAGE PARAMETERS, PART II (U), 139 P (U)

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05866

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copy: 1 id: 40905-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05877
ADNO: 800536L

AUTH: HUEBSCH I.O.
CLSS: U
CCDE: CLOUDRISE
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6608
DESC: Nuclear Weapon Phenomenology Fireball Circulation Turbulence
Entrainment Vorticity
DESC: Nuclear Weapon Environment Fallout Formation mechanics
DESC: THEORY CODE
DESC: Nuclear Weapon Phenomenology cloud development rise
REPN: USNRDL TR 1054
SUJO: 2-170-000 ; 2-221-000 ; 2-224-100
TITL: TURBULENCE, TOROIDAL CIRCULATION AND DISPERSION OF FALLOUT PARTICLES FROM THE RISING NUCLEAR CLOUD (U), 105 P (U)

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copy: 1 id: 40916-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 05878
ADNO: 804499L
AUTH: LAUMETS E. ; EVANS E.C.III.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6609
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: TABULAR
REPN: USNRDL TR 1075
SUJO: 1-710-000 ; 1-740-000 ; 2-223-200
TITL: SYSTEM FOR PREDICTING GAMMA RADIATION HAZARDS FROM NEUTRON-INDUCED RADIOACTIVITY IN EARTH MATERIALS (U), 146 P (U)

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copy: 1 id: 40917-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05893
AUTH: ATKINS M.C. ; BRANEN K.E. ; WAGNER M.H.
CLSS: SRD
CONN: AF 04 (694) 824
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS) ; SHOCK HYDRODYNAMICS

INCORPORATED(SHERMAN OAKS-CALIFORNIA)

DATE: 6609
DESC: Nuclear Weapon Effects reentry systems RV
DESC: EXPERIMENTAL TABULAR SURVEY
REPN: BSD TR 66 372 16 ; AVMSD 0339 66 RR 16
TSHO: HI-ALT
SUJO: 3-113-000
TEMP: 55408
TITL: RADIATION DAMAGE STUDY (RADS), FINAL REPORT, VOL XVI, NOISE TIP
EXPERIMENTS (U), 274 P (SRD)

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05893

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copy: 1 id: 40928-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05901
ADNO: 653236
AUTH: CONARD R.A. ; LOWREY A. ; EICHER M. ; THOMPSON K. ; SCOTT W.A.
CLSS: U
CORP: NAVY/NAVAL MEDICAL RESEARCH INSTITUTE (BETHESDA-MARYLAND)
DATE: 6606
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
REPN: MR 005.21.0004 ; RN 1
SHOT: BRAVO
TSHO: SURFACE
SUJO: 3-312-200
TITL: AGEING STUDIES IN A MARSHALLESE POPULATION EXPOSED TO RADIOACTIVE
FALL-OUT IN 1954 (U), 16 P (U)

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copy: 1 id: 40953-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05905
ADNO: 646019
AUTH: FREILING E.C.
CLSS: U
CONN: AT (49 7) 1963
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6611
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: THEORY
DESC: Nuclear Weapon Environment Fallout Particles size distribution
REPN: USNRDL TR 1105

SUJO: 2-222-300 ; 2-223-200
TITL: COMPARISON OF THE FALLOUT MASS-SIZE DISTRIBUTIONS CALCULATED BY
LOGNORMAL AND POWER-LAW MODELS (U), 24 P (U)

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copy: 1 id: 40957-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05922
AUTH: BERGGREN C.C. ; EMMERT R.R. ; PEFFLEY W.M. ; SHACKLETON J.R. ;
HANNOLD V.R.

CLSS: U
CONN: NONR 4837 (00)
CORP: HUGHES AIRCRAFT COMPANY (FULLERTON-CALIFORNIA)
DATE: 6605
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
REPN: FR 66 17 150
SUJO: 3-222-000
TITL: BASIC MECHANISMS OF TRANSIENT RADIATION EFFECTS IN THE THIN FILM
TRANSISTOR, FINAL REPORT (U), 114 (U)

TREE: 320
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05922
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copy: 1 id: 40969-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05925
AUTH: CORELLI J.C. ; FREDERICKSON A.R. ; WESTHEAD J.W.
CLSS: U
CONN: DA 28 043 AMC 01788 F
CORP: ARMY/ELECTRONICS LABORATORIES (FORT MONMOUTH-NEW JERSEY)
DATE: 6612
DESC: EXPERIMENTAL THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1
REPN: ECOM 01788 F
SUJO: 3-220-200 ; 3-221-000
TITL: TRANSIENT RADIATION DAMAGE IN SEMICONDUCTOR MATERIALS, FINAL REPORT
(U), 82 P (U)

TREE: 310
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05925
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copy: 1 id: 40970-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05929
ADNO: 813476L
AUTH: LAUMETS E. ; YOUNG C.A.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6612
DESC: TABULAR
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: Cross Sections gamma
REPN: USNRDL TM 67 1 2
SUJO: 3-312-000 ; 9-830-000
TITL: APPENDIX II, TRANSIT GRAPHS FOR USE WITH THE NRDL MANUAL
SHIP-SHIELDING CALCULATIONAL METHOD (U), 144 P (U)
TREE: 411

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05929
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copy: 1 id: 40973-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 05930
ADNO: 813474L
AUTH: LAUMETS E. ; YOUNG C.A.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6612
DESC: THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: Cross Sections gamma
REPN: USNRDL TM 67 1
SUJO: 3-312-000 ; 9-830-000
TITL: NRDL MANUAL GAMMA-RAY SHIP-SHIELDING CALCULATIONAL METHOD (U), 136 P
(U)
TREE: 411

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05930
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copy: 1 id: 40974-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 05950
ADNO: 360885L
AUTH: WILSEY E.F. ; HARDIN L.M. ; SHOWERS R.L. ; GARCIA A.G.
CLSS: SRD
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND)
DATE: 6505
DESC: Nuclear Warfare Theater operations scenarios battlefield environment

L1

DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE

DESC: Nuclear weapon test timing position firing data

DESC: Environmental Conditions at Nuclear Weapon Test Site weather

DESC: Nuclear Weapon Environment Initial Gamma source strength total intensity

DESC: Nuclear Weapon Environment Prompt Neutron source strength total fluence

DESC: Nuclear Weapon Environment Thermal Output source strength total intensity

DESC: Nuclear Weapon Environment fallout arrival time

DESC: Nuclear Weapon Environment Ground Shock craters excavations

DESC: Nuclear Weapon Environment radiation decay gamma decay

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment fallout intensity contours patterns

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

REPN: NDL TR 64

SHOT: [REDACTED]

TSHO: SURFACE

SOCE: [REDACTED]

SUJO: 1-110-000 ; 1-210-000 ; 1-710-000 ; 2-223-420 ; 2-225-100 ;
2-225-300 ; 2-611-000 ; 2-625-000 ; 3-312-100 ; 3-411-200 ;
4-834-000 ; 4-841-000

TEMP: A5542 ; B1504

TITL: EFFECTS OF THE DAVY CROCKETT TYPE NUCLEAR WEAPONS (U), 61 P (SRD)

TNFF: 4825

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05950

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copy: 1 id: 40980-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 05962

ADNO: 379354L

AUTH: SHNIDER R.W. ; RAINEY S.C.

CLSS: SRD

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

DATE: 6609

DESC: Nuclear Weapon Environment Prompt Neutron source strength total fluence

DESC: TABULAR

DESC: Nuclear weapon test yield

REPN: USNRDL TR 1075 SUPP

TSHO: LOW-ALT
SOCE: DEV-29 ; DEV-48 ; DEV-16 ; DEV-54 ; DEV-55 ; DEV-56 ; DEV-57 ;
DEV-58 ; DEV-49 ; DEV-59 ; DEV-38 ; DEV-60 ; DEV-61 ; DEV-26 ;
DEV-62 ; DEV-15 ; DEV-63 ; DEV-50 ; DEV-5 ; DEV-64 ; DEV-13 ; DEV-65
; DEV-66 ; DEV-67
SUJO: 1-110-000 ; 4-835-000
TEMP: 55421
TITL: NEUTRON FLUENCE VALUES FOR PREDICTING INDUCED RADIOACTIVITY IN EARTH
MATERIALS(U), 22 P (SRD)

TREE: 920

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05962

.endblock

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copy: 1 id: 40999-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05967

AUTH: TOWNER J.W. ; LINDBERG R.G.

CLSS: U

CONN: AT (04 3) 510

CORP: NORTHROP SPACE LABORATORIES (HAWTHORNE-CALIFORNIA)

DATE: 6608

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

DESC: EXPERIMENTAL

REPN: SAN 510 2 ; NSL 64 136 2

SUJO: 3-312-200

TITL: PERSISTENT RADIATION INDUCED CHROMOSOMAL CHANGES IN NATIVE POCKET
MOUSE POPULATIONS OF THE NEVADA TEST SITE, FINAL REPORT (U), 73 P
(U)

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copy: 1 id: 41004-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05972

AUTH: PRESTON R.G.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)

DATE: 6607

DESC: TABULAR

DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity

DESC: Nuclear Weapon Environment Ground Shock scaling

REPN: UCID 15008

TSHO: UG-CONTAINED

SUJO: 2-621-000 ; 2-624-000

TITL: FREE-FIELD PEAK PARTICLE MOTIONS FROM UNDERGROUND NUCLEAR EXPLOSIONS

IN ALLUVIUM (U), 6 P (U)

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05972

.endblock

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copy: 1 id: 41009-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05973

AUTH: JOHNSON W.H. ; CRAMER J. ; THOMPSON B. ; SITKO W.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)

DATE: 6610

DESC: HANDBOOK

DESC: Nuclear Test Simulation Field Programs experiment design engineering
layout performance program documents

DESC: Nuclear Weapon Test Operations

REPN: UCID 15034

SUJO: 4-820-000 ; 4-850-000

TITL: POSTSHOT DRILLING HANDBOOK (U), 49 P (U)

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05973

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copy: 1 id: 41010-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05974

AUTH: SWETNAM R.L.

CLSS: U

CORP: GD/POMONA DIVISION (POMONA-CALIFORNIA)

DATE: 6611

DESC: test instruments nuclear radiation fallout debris sampling
collectors

DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity

REPN: UCRL 13215

SUJO: 4-345-000 ; 4-821-000

TITL: NUCLEAR CLOUD SAMPLING SYSTEM (U), 11 P (U)

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05974

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copy: 1 id: 41011-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05986

AUTH: CRAWFORD T.V.

CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6604
DESC: THEORY
DESC: test instruments nuclear radiation fallout debris sampling
collectors
DESC: Nuclear Weapon Environment fallout transport
REPN: TID 4500 ; UC 53 ; UCRL 14983
SUJO: 2-224-200 ; 4-345-000
TITL: PREDICTING AND SAMPLING NUCLEAR CLOUDS FROM THE VIEWPOINT OF
DIFFUSION THEORY (U), 42 P (U)

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05986

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copy: 1 id: 41020-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05993
AUTH: LESSLER R.M. ; GUY F.W.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6503
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: EXPERIMENTAL TABULAR
REPN: UCRL 12339 1
SHOT: OWENS
TSHO: LOW-ALT
SUJO: 2-223-200
TITL: GAMMA DOSE RATES AND INTEGRATED DOSES FROM NEUTRON INDUCED RESIDUAL
RADIOACTIVITY IN SOIL, VOLUME 1 (U), 50 P (U)

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05993

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copy: 1 id: 41024-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 05994
AUTH: CRAWFORD T.V.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6611
DESC: Nuclear Weapon Environment fallout transport
DESC: THEORY EXPERIMENTAL
REPN: UCRL 50179
SUJO: 2-224-200
TITL: COMPUTER PROGRAM FOR CALCULATING THE ATMOSPHERIC DISPERSION OF LARGE
CLOUDS (U), 56 P (U)

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05994
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copy: 1 id: 41025-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 06001
AUTH: WILLIAMSON M.M.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 6505
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
LOCAL FALLOUT AS A FUNCTION OF SDOB
REPN: UCRL 14184
SHOT: SUGAR ; UNCLE ; ESS ; DANNY BOY ; JOHNIE BOY ; NEPTUNE
TSHO: UG-VENTED
SUJO: 2-225-100
TEMP: 55526
TITL: ACTIVITY RELEASE FROM SEVERAL NUCLEAR CRATERING DETONATIONS (U), 46
P., (U)

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06001
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copy: 1 id: 41028-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 06002
AUTH: HICKS H.G. ; BARTON G.W.JR.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6512
DESC: Nuclear weapon test yield
DESC: THEORY EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Environment fallout fractionation
REPN: UCRL 12227
SHOT: SPOON ; MAD ; FEATHER ; WICHITA ; BRAZOS ; SATSOP ; FORE ; SANTEE ;
CASSELMAN
TSHO: UG-CONTAINED ; UG-VENTED
SUJO: 2-223-500 ; 4-835-000
TEMP: 55525
TITL: CHEMICAL FRACTIONATION OF UNDERGROUND SHOT DEBRIS (U), 54 P (SRD)

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06002
.endblock
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copy: 1 id: 41029-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 06004
AUTH: JAMES R.A. ; FLEMING E.H.JR.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6609
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
DESC: THEORY
REPN: UCRL 50050 1
SUJO: 3-312-220
TEMP: 55527
TITL: RELATIVE SIGNIFICANCE INDEX OF RADIONUCLIDES FOR CANAL STUDIES (U),
14 P (SRD)

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06004
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copy: 1 id: 41030-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 06018
ADNO: 657939
AUTH: PRITCHETT J.W.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6605
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: Nuclear Weapon Environment Water Shock velocity arrival time
spectrum duration
DESC: THEORY EXPERIMENTAL
DESC: Simulation Facilities Techniques blast shock water shock L1
DESC: Nuclear Weapon Environment Water Shock bubbles
REPN: USNRDL TR 1044
TSHO: UW
SUJO: 2-223-100 ; 2-632-000 ; 2-636-000 ; 4-213-000
TITL: EXPLOSION PRODUCT REDISTRIBUTION MECHANISMS FOR SCALED MIGRATION
UNDERWATER EXPLOSION BUBBLES (U), 149 P (U)

.block
06018
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copy: 1 id: 41049-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 06024
ADNO: 637427
AUTH: FRENCH R.L. ; OLMEDO L.
CLSS: U
CONN: N 228 (62479) 68174
CORP: RADIATION RESEARCH ASSOCIATES INCORPORATED (FORT WORTH-TEXAS)
DATE: 6606
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: THEORY EXPERIMENTAL
DESC: Cross Sections x-ray
DESC: Cross Sections gamma
REPN: RRA T 61
SUJO: 2-223-200 ; 9-830-000 ; 9-840-000
TITL: GROUND ROUGHNESS CALCULATIONS FOR FALLOUT GAMMA RAYS, FINAL REPORT
(U), 53 P (U)

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copy: 1 id: 41051-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 06025
AUTH: WALL J.F.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6602
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration
DESC: EXPERIMENTAL
REPN: UCID 5102
SHOT: PRE SCHOONER 2
TSHO: UG-VENTED
SUJO: 2-621-000 ; 2-622-000
TITL: GROUND SHOCK MEASUREMENTS FOR PROJECT PRE-SCHOONER II (U), 19 P (U)

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.endblock

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copy: 1 id: 41052-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 06060
ADNO: 379740L
AUTH: CHIN J.G.
CLSS: U
CCDE: ZZ (COUPLED STAGRADS-STRADS-ABLATION)

CONN: AF 04 (694) 814
CORP: LOCKHEED MISSILES AND SPACE COMPANY (SUNNYVALE-CALIFORNIA)
DATE: 6609
DESC: THEORY CODE (P A-1)
DESC: Nuclear Weapon Effects reentry systems RV
DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: Nuclear Weapon Effects materials plastics resins
REPN: L 41 66 14
SUJO: 3-113-000 ; 3-244-000 ; 9-710-000
TITL: HARDENING TECHNOLOGY STUDIES-II, RADIATION COUPLED FLOW FIELD AROUND
BODIES, INVISCID ABLATION LAYER (U), 132 P (C)

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copy: 1 id: 41080-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 06078
ADNO: 379993L
AUTH: HANSEN D.F. ; HAWKS S.G. ; OROURKE R.C. ; HETLEY G.H.JR. ; SHULER
M.P.JR.

CLSS: SRD

CONN: AF 19 (628) 6044

CORP: E G AND G INCORPORATED (BOSTON-MASSACHUSETTS)

DATE: 6605

DESC: THEORY

DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence

DESC: nuclear test detection atmospheric fluorescence detection

DESC: test instruments IR

REPN: ESD TR 66 349 ; EGG B 3338

SHOT: STARFISH

TSHO: HI-ALT

SUJO: 2-214-000 ; 4-383-000 ; 4-918-000

TEMP: 55599

TITL: PRELIMINARY INVESTIGATION OF OPTICAL SENSORS FOR HIGH-ALTITUDE
RADIATION DETECTION (U), 170 P (SRD)

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copy: 1 id: 41112-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 06079

ADNO: 453622

AUTH: HILL J.H. ; CHISUM G.T.

CLSS: U

CORP: NAVY/NAVAL AIR DEVELOPMENT CENTER (JOHNSVILLE-PENNSYLVANIA)

DATE: 6506
DESC: TABULAR
DESC: Nuclear Weapon Effects on animals thermal ocular effects
SUJO: 3-313-200
SYMJ: AEROSPACE MEDICINE, VOL. 36, NO. 6, JUNE 1965, PAGE 528
TITL: NATURE OF RADIATION FROM NUCLEAR WEAPONS IN RELATION TO
FLASHBLINDNESS (U), 5 P (U)

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.endblock

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copy: 1 id: 41113-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 06086
AUTH: KLEMENT A.W.JR.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (NEW YORK-NEW YORK)
DATE: 6511
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
REPN: CONF 765
SUJO: 3-312-220
TITL: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U), 953 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 06086-1
AUTH: FREILING E.C. ; CROCKER G.R. ; ADAMS C.E.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6511
DESC: Nuclear Weapon Environment Fallout Formation mechanicms
DESC: THEORY SUMMARY
DESC: Nuclear Weapon Environment Fallout Radioproperties
REPN: CONF 765
TSHO: LOW-ALT
SUJO: 2-221-000 ; 2-223-000
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: NUCLEAR-DEBRIS FORMATION (U), 43 P (U)

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cat1: cat2: home: STACKS current: STACKS
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INUM: 06086-3
AUTH: CROCKER G.R. ; KAWAHARA F.K. ; FREILING E.C.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6511
DESC: Nuclear Weapon Environment Fallout Particles size distribution
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout fractionation
REPN: CONF 765
SHOT: JOHNNIE BOY ; SMALLBOY ; SEDAN
TSHO: SURFACE ; UG-VENTED
SUJO: 2-222-300 ; 2-223-100 ; 2-223-500
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: RADIOCHEMICAL-DATA CORRELATIONS ON DEBRIS FROM SILICATE BURSTS (U),
10 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06086-5
AUTH: BENSON P. ; GLEIT C.E. ; LEVENTHAL L.
CLSS: U
CORP: TRACERLAB (WALTHAM-MASSACHUSETTS)
DATE: 6511
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay beta decay
DESC: Nuclear Weapon Environment Fallout Particles size distribution
REPN: CONF 765
TSHO: LOW-ALT
SUJO: 2-222-300 ; 2-223-430
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: PHYSICAL CHARACTERISTICS OF SINGLE PARTICLES FROM HIGH-YIELD AIR
BURSTS (U), 10 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06086-7
AUTH: LOCKHART L.B.JR. ; PATTERSON R.L.JR. ; SAUNDERS A.W.JR.
CLSS: U
CORP: NAVY/NAVAL RESEARCH LABORATORY (WASHINGTON-D.C.)
DATE: 6511
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: Nuclear Weapon Environment Fallout beta intensities
DESC: test instruments nuclear radiation fallout debris sampling
collectors
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout Particles size distribution
REPN: CONF 765
SUJO: 2-222-300 ; 2-223-100 ; 2-223-300 ; 4-345-000
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: DISTRIBUTION OF AIRBORNE RADIOACTIVITY WITH PARTICLE SIZE (U), 14 P
(U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 06086-10
AUTH: HEFT R.E. ; KAHN J.S.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6511
DESC: SUMMARY EXPERIMENTAL
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
REPN: CONF 765
SHOT: SEDAN
TSHO: UG-VENTED
SUJO: 2-223-200 ; 4-140-000
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: PARTICLE ANALYSIS PROGRAM AT LAWRENCE RADIATION LABORATORY (U), 7 P
(U)

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INUM: 06086-12
AUTH: FOOTE R.S.
CLSS: U
CORP: TEXAS INSTRUMENTS INCORPORATED (DALLAS-TEXAS)

DATE: 6511
DESC: DALLAS BACKGROUND DATA 1962 TO 1964 ; EXPERIMENTAL
DESC: test instruments nuclear radiation gamma
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
REPN: CONF 765
SHOT: cpr(65-10-16)
SUJO: 2-223-200 ; 2-223-410 ; 4-341-000
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: FALLOUT MEASUREMENTS BY TOTAL-ABSORPTION GAMMA-RAY SPECTROSCOPY (U),
14 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 06086-13
AUTH: PERKINS R.W. ; THOMAS C.W. ; NIELSEN J.M.
CLSS: U
CORP: HANFORD LABORATORIES (RICHLAND-WASHINGTON)
DATE: 6511
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: test instruments nuclear radiation gamma
DESC: RICHLAND WASHINGTON ; EXPERIMENTAL
REPN: CONF 765
SUJO: 2-223-100 ; 3-312-220 ; 4-341-000
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: MEASUREMENTS OF AIRBORNE RADIONUCLIDES AND DETERMINATION OF THEIR
PHYSICAL CHARACTERISTICS (U) 23 P (U)

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

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INUM: 06086-14
AUTH: FRIEDLANDER S.K. ; PASCERI R.E.
CLSS: U
CORP: JOHNS HOPKINS UNIVERSITY (BALTIMORE-MARYLAND)
DATE: 6511
DESC: test instruments nuclear radiation fallout debris sampling
collectors
DESC: EXPERIMENTAL
REPN: CONF 765
SUJO: 4-345-000

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: MEASUREMENTS OF THE PARTICLE SIZE DISTRIBUTION OF THE TROPOSPHERIC
AEROSOL WITH A ROTATING-DISK SAMPLER (U), 10 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 06086-15
AUTH: LOWDER W.M. ; BECK H.L. ; CONDON W.J.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (NEW YORK-NEW YORK)
DATE: 6511
DESC: test instruments nuclear radiation gamma
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: VARIOUS US LOCATIONS 1962 TO 1964 ; EXPERIMENTAL
REPN: CONF 765
SUJO: 2-223-100 ; 2-223-200 ; 4-341-000
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: DOSIMETRIC INVESTIGATIONS OF ENVIRONMENTAL GAMMA RADIATION FROM
DEPOSITED FISSION PRODUCTS (U), 67 P (U)

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INUM: 06086-30
AUTH: MAHLMAN J.D.
CLSS: U
CORP: COLORADO STATE UNIVERSITY (FORT COLLINS-COLORADO)
DATE: 6511
DESC: Nuclear Weapon Environment radiation decay beta decay
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout transfer
REPN: CONF 765
SUJO: 2-223-100 ; 2-223-430 ; 2-224-300
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: RELATION OF UPPER AIR HEMISPHERIC INDEX PATTERNS TO SEASONAL FALLOUT
FLUCTUATIONS (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: 06086-34
AUTH: SAUCIER W.J. ; HALL S.J. ; NELSON R.Y.
CLSS: U
CORP: UNIVERSITY OF OKLAHOMA (NORMAN-OKLAHOMA)
DATE: 6511
DESC: Meteorology
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport
DESC: SUMMARY
REPN: CONF 765
SUJO: 4-140-000 ; 5-500-000
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: UNIVERSITY OF OKLAHOMA PROGRAM FOR STUDIES OF CONVECTIVE STORMS AND
SCAVENGING OF RADIOACTIVE PARTICLES (U), 8 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06086-39
AUTH: VOLCHOK H.L.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (NEW YORK-NEW YORK)
DATE: 6511
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
DESC: EXPERIMENTAL
REPN: CONF 765
SUJO: 2-223-100 ; 2-223-410
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: CHARACTERISTICS OF RELATIVE 90 SR CONCENTRATIONS IN SURFACE AIR (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: 06086-43
AUTH: WARD G.M. ; JOHNSON J.E. ; STEWART H.F.
CLSS: U
CORP: COLORADO STATE UNIVERSITY (FORT COLLINS-COLORADO)
DATE: 6511

DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
REPN: CONF 765
SUJO: 3-312-220 ; 3-332-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: CESIUM-137 PASSAGE FROM PRECEPITATION TO MILK (U), 7 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 06086-44
AUTH: HAWTHORNE H.A.
CLSS: U
CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES-CALIFORNIA)
DATE: 6511
DESC: Nuclear Weapon Environment Fallout isotope concentrations cesium
137, strontium 90, Ce, Sr, St. George UT
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake,
alfalfa
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal, diary cows, milk
REPN: CONF 765
SUJO: 2-223-100 ; 3-312-220 ; 3-332-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: FISSION-PRODUCT CYCLES IN AN AGRICULTURAL SYSTEM. I. SAMPLE
HETEROGENEITY (U),11 P (U)

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

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INUM: 06086-46
AUTH: RIVERA J.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (NEW YORK-NEW YORK)
DATE: 6511
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
DESC: EXPERIMENTAL
REPN: CONF 765
SUJO: 3-312-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)

TITL: RADIATION TO BONE FROM 90 SR IN NEW YORK CITY RESIDENTS (U), 5 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 06086-47

AUTH: HARDY E.P. JR. ; RIVERA J. ; CONARD R.A.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION (NEW YORK-NEW YORK) ; BROOKHAVEN NATIONAL
LABORATORY (UPTON-NEW YORK)

DATE: 6511

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

internal

DESC: EXPERIMENTAL

REPN: CONF 765

SHOT: BRAVO

TSHO: SURFACE

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

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)

TITL: CESIUM-137 AND STRONTIUM-90 RETENTION FOLLOWING AN ACUTE INGESTION
OF RONGELAPFOOD (U), 14 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 06086-48

AUTH: MARTIN W.E.

CLSS: U

CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES-CALIFORNIA)

DATE: 6511

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

internal

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment fallout intensity contours patterns

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake

REPN: CONF 765

SHOT: SEDAN

TSHO: UG-VENTED

SUJO: 2-225-100 ; 3-312-220 ; 3-332-220

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)

TITL: EARLY FOOD-CHAIN KINETICS OF RADIONUCLIDES FOLLOWING CLOSE-IN
FALLOUT FROM A SINGLE NUCLEAR DETONATION

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

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INUM: 06086-49

AUTH: GUSTAFSON P.F. ; BRAR S.S. ; MUNIAK S.E.

CLSS: U

CORP: ARGONNE NATIONAL LABORATORY (ARGONNE-ILLINOIS)

DATE: 6511

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake

DESC: Nuclear Weapon Environment fallout accumulation rate

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

internal

REPN: CONF 765

SUJO: 2-225-400 ; 3-312-220 ; 3-332-220

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)

TITL: FISSION-PRODUCT DEPOSITION AND DIETARY LEVELS IN THE CHICAGO AREA
(U), 7 P (U)

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

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INUM: 06086-51

AUTH: TURNER F.B.

CLSS: U

CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES-CALIFORNIA)

DATE: 6511

DESC: Nuclear Weapon Environment Fallout isotope concentrations

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

internal

DESC: EXPERIMENTAL

REPN: CONF 765

SHOT: SEDAN

TSHO: UG-VENTED

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

SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)

TITL: UPTAKE OF FALLOUT RADIONUCLIDES BY MAMMALS AND A STOCHASTIC
SIMULATION OF THE PROCESS (U), 20 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 06086-52
AUTH: HAWLEY C.A. JR. ; MARKEE E.H. JR.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (NEW YORK-NEW YORK) ; WEATHER BUREAU
(WASHINGTON-D.C.)
DATE: 6511
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
REPN: CONF 765
SUJO: 3-312-220 ; 3-332-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: CONTROLLED ENVIRONMENTAL RADIOIODINE TESTS (U), 14 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06086-53
AUTH: TAMPLIN A.R. ; MINKLER J.L.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6511
DESC: SUMMARY
DESC: Nuclear RDT&E Research Program Descriptions biomedical
REPN: CONF 765
SUJO: 4-150-000
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: INFORMATION INTEGRATION PROJECT OF THE LAWRENCE RADIATION
LABORATORY-LIVERMOREPROGRAM ON MAN-MADE RADIATION IN THE BIOSPHERE
(U), 13 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06086-54
AUTH: BENINSON D. ; RAMOS E. ; TOUZET R.
CLSS: U
CORP: ARGENTINE COMISION NACIONAL DE ENERGIA ATOMICA (BUENOS
AIRES-ARGENTINA)
DATE: 6511

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
DESC: Nuclear Weapon Environment fallout accumulation rate
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
LA: ARGENTINA
REPN: CONF 765
SUJO: 2-225-400 ; 3-312-220 ; 3-332-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: STUDIES OF 90 SR AND STABLE STRONTIUM IN DIET AND BONE IN ARGENTINA
(U), 8 P (U)

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

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INUM: 06086-55
AUTH: STROMME A.
CLSS: U
CORP: STATE INSTITUTE FOR RADIATION HYGIENE AND THE NORWEGIAN RADIUM
HOSPITAL (OSLO-NORWAY)
DATE: 6511
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal

LA: NORWAY
REPN: CONF 765
SUJO: 3-312-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: CESIUM-137 BODY BURDENS AND THEIR VARIATIONS IN NORWEGIAN SCHOOL
BOYS (U), 5 P(U)

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

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INUM: 06086-56
AUTH: MADSHUS K. ; STROMME A.
CLSS: U
CORP: NORSK HYDROS INSTITUTE FOR CANCER RESEARCH (OSLO-NORWAY) ; NORWEGIAN
RADIUM HOSPITAL (OSLO-NORWAY)
DATE: 6511
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
DESC: Nuclear Weapon Environment fallout transfer
DESC: EXPERIMENTAL

LA: NORWAY
REPN: CONF 765
SUJO: 2-224-300 ; 3-312-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: CORRELATION BETWEEN PRECIPITATION AND AMOUNT OF 137 CS IN MILK IN
NORWAY (U), 11 P (U)

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

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INUM: 06086-57
AUTH: THOMPSON J.C. JR. ; LENGEMANN F.W.
CLSS: U
CORP: CORNELL UNIVERSITY (ITHACA-NEW YORK)
DATE: 6511
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal

DESC: EXPERIMENTAL
REPN: CONF 765
SUJO: 3-312-220
SYMJ: RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTS (U)
TITL: DIETARY INTAKE OF RADIONUCLIDES, EFFECT OF CONSUMPTION PATTERNS AND
EVALUATION BY USE OF INTEGRATING SAMPLES (U), 17 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 06116
AUTH: ATKINS M.C.
CLSS: SRD
CONN: AF 04 (694) 824
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS)
DATE: 6609
DESC: Cross Sections x-ray
DESC: Nuclear Weapon Effects materials not systems associated
DESC: Fluid Mechanics hydrodynamics
DESC: Nuclear Weapon Effects reentry systems RV
DESC: Nuclear Weapon Effects reentry systems penairs
DESC: SUMMARY
REPN: BSD TR 66 372 1 ; AVMSD 0339 66 RR 1
SUJO: 3-113-000 ; 3-117-000 ; 3-240-000 ; 9-410-000 ; 9-840-000
TEMP: 55683
TITL: RADIATION DAMAGE STUDY (RADS), VOLUME 1, PROGRAM MANAGERS SUMMARY,
FINAL REPORT (U), 277 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 06340

ADNO: 384292L

AUTH: SHIRASWA T.H. ; GURNEY W.J.

CLSS: CFRD

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

DATE: 6610

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment fallout intensity contours patterns

DESC: Nuclear Weapon Environment Fallout isotope concentrations

REPN: USNRDL TR 67 77

SHOT: UMBRELLA

TSHO: UW

SUJO: 2-223-100 ; 2-225-100

TEMP: 81007

TITL: OCEANIC DISPERSION OF EXPLOSION PRODUCTS RESULTING FROM 10,000-POUND HBX-1 UNDERWATER DETONATIONS HYDRA IIA TEST SERIES IN THE HYDRA PROGRAM (U), 80 P (C)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 06375

ADNO: 384176L

AUTH: BREWER G.W. ; SULIT R.A.

CLSS: SRD

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

DATE: 6602

DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE

DESC: SURVEY TABULAR

DESC: Nuclear Weapon Effects ship systems surface ships

DESC: Nuclear Weapon Effects on animals thermal burns heating

DESC: Nuclear Weapon Effects materials fibers textiles

DESC: Nuclear weapon test yield

DESC: Nuclear Weapon Environment Thermal Output source strength total intensity

DESC: Nuclear Weapon Environment radiation decay gamma decay

REPN: USNRDL TR 979

TSHO: WATER-SURFACE ; LOW-ALT ; UW

SOCE: DEV-29 ; DEV-76 ; DEV-48 ; DEV-49 ; DEV-50 ; DEV-77 ; DEV-59 ;
DEV-63 ; DEV-5 ; DEV-78 ; DEV-38
SUJO: 1-210-000 ; 2-223-420 ; 2-611-000 ; 3-122-000 ; 3-242-000 ;
3-313-100 ; 4-835-000
TEMP: 55756
TITL: SHIP-DAMAGE AND INITIAL-WEAPON-EFFECTS FROM THE NUCLEAR WARHEADS OF
NAVY WEAPON SYSTEMS (U), 92 P (SRD)

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06375
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copy: 1 id: 41249-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06426
ADNO: 612536
CLSS: U
CONN: AF 49 (638) 1125
CORP: RADIATION APPLICATIONS INCORPORATED (LONG ISLAND-NEW YORK)
DATE: 6501
DESC: Nuclear Weapon Effects materials carbon
DESC: EXPERIMENTAL
REPN: RAI 347
SUJO: 3-248-000
TITL: RADIATION-INDUCED SOLID PROPELLANT DECOMPOSITION FINAL REPORT (U),
25 P (U)

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copy: 1 id: 41288-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06469
ABS: The radiological environments which may result from the non-nuclear
destruction of a Nike-Zeus nuclear warhead at a specific location
are predicted. Wind criteria are recommended for the launch of a
nuclear-armed Nike-Zeus missile, to limit the extent of plutonium
contamination from a warhead destruct. A plan is developed for the
radiological reclamation of areas and facilities contaminated with
plutonium.
ADNO: 366270L
AUTH: BENNETT C.B. ; FULLER R.K.
CLSS: SRD
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6506
DESC: Nuclear weapon safety radiological
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: EXPERIMENTAL SURVEY

REPN: USNRDL TR 0877
SUJO: 2-223-100 ; 4-838-100
TEMP: A5535
TITL: PLANNING RADIOLOGICAL RECLAMATION OF TEST FACILITIES AT KWAJALEIN
CONTAMINATEDBY PLUTONIUM, VOLUME 1, CONTAMINATION PREDICTION (U), 87
P (SRD)

TNFF: 6300

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created: 12/27/1991 type: REPORT permanent

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INUM: 06540

ADNO: 385557

AUTH: CARPENTER R.O. ; WARNECK P. ; HURD A.G. ; FRANZOSA M.

CLSS: SRD

CONN: AF 19 (628) 3849

CORP: GCA CORPORATION (BEDFORD-MASSACHUSETTS)

DATE: 6505

DESC: Nuclear Weapon Phenomenology High-Altitude debris resonance scatter

DESC: Emission Spectra of the Atmosphere

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates

DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors

DESC: Nuclear Weapon Environment Thermal Output rate

DESC: Nuclear Weapon Phenomenology Fireball Chemistry

DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence

DESC: Nuclear Weapon Phenomenology High-Altitude auroras

REPN: GCA TR 65 2 A

SHOT: BLUEGILL ; KINGFISH ; CHECKMATE

TSHO: HI-ALT

SUJO: 1-240-000 ; 2-110-000 ; 2-160-000 ; 2-214-000 ; 2-215-000 ;
2-216-000 ; 3-133-000 ; 4-820-600 ; 5-600-000

TEMP: 57138

TITL: RESEARCH AND DEVELOPMENT ON AURORAL/AIRGLOW REACTIONS GENERATED BY
HIGH ALTITUDE NUCLEAR DETONATIONS (U), 104 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 06552

ADNO: 821041L
AUTH: COVEY P.A.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6507
DESC: test instruments nuclear radiation gamma
DESC: EXPERIMENTAL
REPN: USNRDL TR 864
SUJO: 4-341-000
TITL: SELF-CONTAINED GAMMA-INTENSITY-TIME RECORDER FOR FIELD USE (U), 9 P (U)

TREE: 651

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06552

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copy: 1 id: 41366-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 06585
AUTH: DAVIS G.J.
CLSS: SRD
CONN: AF 04 (694) 824
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS) ; AIR FORCE/SPACE AND MISSILE SYSTEMS ORGANIZATION (NORTON AIR FORCE BASE-CALIFORNIA)
DATE: 6609
DESC: Nuclear Weapon Effects reentry systems RV
DESC: EXPERIMENTAL THEORY
DESC: Cross Sections x-ray
REPN: BSD TR 66 372 7 ; AVMSD 0339 66 RR 7
SUJO: 3-113-000 ; 9-840-000
TEMP: 55921
TITL: RADIATION DAMAGE STUDY (RADS), FINAL REPORT, VOLUME VII: VEHICLE HARDENING, BOOK 1 OF 2 BOOKS (U), 410 P (SRD)

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copy: 1 id: 41384-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 06586
ADNO: 386590
AUTH: DAVIS G.J.
CLSS: SRD
CONN: AF 04 (694) 824
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS) ; AIR FORCE/SPACE AND MISSILES SYSTEMS ORGANIZATION (NORTON AIR FORCE BASE-CALIFORNIA)
DATE: 6609

DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: THEORY
DESC: Nuclear Weapon Effects reentry systems RV
DESC: Cross Sections x-ray
REPN: BSD TR 66 372 7 ; AVMSD 0339 66 RR 7
SUJO: 3-113-000 ; 9-710-000 ; 9-840-000
TEMP: 55922
TITL: RADIATION DAMAGE STUDY (RADS), FINAL REPORT, VOLUME VII: VEHICLE
HARDENING (U), 197 P (SRD)

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copy: 1 id: 41385-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06588
ADNO: 378372
AUTH: GREGORITS J.W.
CLSS: SRD
CORP: ARMY/PICATINNY ARSENAL (DOVER-NEW JERSEY)
DATE: 6612
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport

DESC: EXPERIMENTAL
REPN: 3454
TSHO: UG-CONTAINED
SUJO: 4-140-000
TEMP: 55935
TITL: PICATINNY ARSENAL PARTICIPATION IN DISTANT MIST (U), 60 P (SRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 06685
ADNO: 386531
AUTH: MIERCORT F.A.
CLSS: C
CONN: DA 49 092 ARO 10
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CALIFORNIA)
DATE: 6610
DESC: TABULAR
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external
DESC: Target Analysis civilians population at risk casualties L1
DESC: Civil Defense shelters LU
REPN: 5205 21 ; SRI 6 1424

SUJO: 3-312-210 ; 3-433-000 ; 3-474-000
TEMP: 57336
TITL: CIVIL DEFENSE INTERACTIONS WITH BMD IN A DIRECT ATTACK (U), 28 P (S)

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copy: 1 id: 41489-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06713
ADNO: 376309L
AUTH: HAWLEY R.E.
CLSS: SRD
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6610
DESC: Nuclear Weapon Detonation Detection Monitoring
DESC: Nuclear Warfare Theater targeting damage assessment
DESC: Nuclear Weapon Phenomenology cloud shape size
DESC: SUMMARY THEORY
REPN: USNRDL TR 1078
SUJO: 2-224-140 ; 3-414-200 ; 4-900-000
TEMP: 57431
TITL: ACCURACY OF NUCLEAR-WEAPON-YIELD ESTIMATES BY DEPARTMENT OF THE ARMY
FM 3-12 FIELD-EXPEDIENT METHODS (U), 33 P (SRD)

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06713
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copy: 1 id: 41512-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 06786
ADNO: 800962
AUTH: WATSON K.M.
CLSS: U
CONN: AF 04 (695) 1001
CORP: AEROSPACE CORPORATION (SAN BERNARDINO-CALIFORNIA) ; AIR FORCE/SPACE
AND MISSILE SYSTEMS ORGANIZATION (NORTON AIR FORCE BASE-CALIFORNIA)

DATE: 6610
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation
DESC: THEORY
REPN: TR 1001 (S 2855 40) 1 ; BSD TR 66 328
SUJO: 5-800-000
TITL: STABILITY OF TRAPPED ELECTRON BELTS (U), 28 P (U)

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copy: 1 id: 41574-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07102
ADNO: 653922
AUTH: DAVIS L.W. ; BAKER W.L. ; SUMMERS D.L.
CLSS: U
CONN: OCD PS 64 196 ; N 228 (62479) 69778
CORP: DIKEWOOD CORPORATION (ALBUQUERQUE-NEW MEXICO) ; NAVY/NAVAL
RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6604
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Effects animals
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity
DESC: SURVEY
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Target Analysis civilians population at risk casualties L1
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
REPN: DC FR 1054 ; USNRDL TRC 46
SHOT: HIROSHIMA ; NAGASAKI
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-210-000 ; 1-710-000 ; 2-611-000 ; 3-310-000 ;
3-433-000
TITL: ANALYSIS OF JAPANESE NUCLEAR CASUALTY DATA, FINAL REPORT (U), 303 P
(U)

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copy: 1 id: 41820-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07108
AUTH: TROUBETZKOY E.S.
CLSS: U
CCDE: UNC-SAM-2
CONN: DA 30 069 AMC 785 (X)
CORP: UNITED NUCLEAR CORPORATION (ELMSFORD-NEW YORK)
DATE: 6609
DESC: CODE THOERY
DESC: Radiation Transport x-ray
DESC: Radiation Transport neutron
DESC: Radiation Transport gamma
REPN: UNC 5157
SUJO: 9-620-000 ; 9-640-000 ; 9-650-000
TITL: UNC-SAM-2 -A FORTRAN MONTE CARLO PROGRAM TREATING TIME-DEPENDENT

NEUTRON AND PHOTON TRANSPORT THROUGH MATTER (U), 101 P (U)

TREE: 960 ; 970

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copy: 1 id: 41825-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 07124

ADNO: 802148

CLSS: U

CONN: AF 33 (615) 1124 ; AF 33 (657) 10085

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)

DATE: 6610

DESC: Nuclear Weapon Effects materials metals alloys

DESC: Nuclear Weapon Effects materials plastics resins

DESC: Nuclear Weapon Effects electronic pieceparts

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

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

DESC: BIBLIOGRAPHY

REPN: REIC M 30

SUJO: 3-220-000 ; 3-243-000 ; 3-244-000 ; 4-140-000 ; 4-170-000

TITL: COMPILATION OF NUCLEAR, PULSED, AND SPACE RADIATION EFFECTS PROJECTS
(U), 116 P (U)

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copy: 1 id: 41831-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 07129

AUTH: STASSINOPOULOS E.G.

CLSS: U

CCDE: DECAY

CORP: NASA/GODDARD SPACE FLIGHT CENTER (GREENBELT-MARYLAND)

DATE: 6507

DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping

DESC: CODE

REPN: NASA TN D 2874

SHOT: STARFISH

TSHO: HI-ALT

SUJO: 2-217-000

TITL: COMPUTER PROGRAM TO CALCULATE ARTIFICIAL RADIATION BELT DECAY
FACTORS (U), 11 P (U)

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

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INUM: 07140

ABS: This bibliography is concerned with the literature on the vulnerability of nuclear weapon systems to the blast, fragmentation, impact, electronic countermeasures, electromagnetic radiation, fire, thermal radiation, and nuclear radiation environments, with major emphasis on those documents dealing with the response of the weapons to the environments.

ADNO: 378828L

AUTH: FRANKLIN M.E.

CLSS: U

CORP: NAVY/NAVAL WEAPONS EVALUATION FACILITY (KIRTLAND AIR FORCE BASE-NM)

DATE: 6612

DESC: Nuclear weapon safety

DESC: BIBLIOGRAPHY

REPN: NWEF 1003

SUJO: 4-838-000

TITL: VULNERABILITY OF NUCLEAR WEAPONS, BIBLIOGRAPHY AND INDICES (U), 640

P (C)

TNFF: 8805 ; 3000

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copy: 1 id: 41843-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07146

AUTH: PENNY S.K. ; TRUBEY D.K. ; GURNEY J.

CLSS: U

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 6605

DESC: BIBLIOGRAPHY

DESC: Cross Sections gamma

DESC: Cross Sections neutron

DESC: Radiation Transport neutron

DESC: Radiation Transport gamma

REPN: ORNL RSIC 5 REV 1

SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000

TITL: BIBLIOGRAPHY, SUBJECT INDEX, AND AUTHOR INDEX OF THE LITERATURE EXAMINED BY THE RADIATION SHIELDING INFORMATION CENTER (U), 581 P

(U)

TREE: 410 ; 150

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07148
CLSS: U
CORP: OAK RIDGE NATIONAL LABROATORY (OAK RIDGE-TN)
DATE: 6600
DESC: BIBLIOGRAPHY
DESC: Shielding Protection
REPN: ORNL RSIC 12
SUJO: 9-800-000
TITL: ABSTRACTS OF THE LITERATURE EXAMINED BY THE RADIATION SHIELDING
INFORMATION CENTER, SPACE AND ACCELERATOR SHIELDING (U), 117 P (U)

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copy: 1 id: 41849-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07149
CLSS: U
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)
DATE: 6501
DESC: Radiation Transport neutron
DESC: BIBLIOGRAPHY
DESC: Radiation Transport gamma
DESC: Cross Sections neutron
DESC: Cross Sections gamma
REPN: ORNL RSIC 6
SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000
TITL: ABSTRACTS OF THE LITERATURE EXAMINED BY THE RADIATION SHIELDING
INFORMATION CENTER (U), 335 P (U)
TREE: 410 ; 150

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copy: 1 id: 41850-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07150
ADNO: 801200
CLSS: U
CORP: DEFENSE DOCUMENTATION CENTER (ALEXANDRIA, VA)
DATE: 6611
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects electronic pieceparts L1

DESC: Nuclear Weapon Effects electronic subsystems L1
SUJO: 3-210-000 ; 3-220-000
TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONIC SYSTEMS (TREES), A REPORT
BIBLIOGRAPHY, CA. 300 P.

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07150
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copy: 1 id: 41851-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07247
AUTH: SINGER S.
CLSS: U
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NEW MEXICO)
DATE: 6510
DESC: test instruments nuclear radiation gamma
DESC: test instruments nuclear radiation neutron
DESC: nuclear test detection prompt neutron detection
DESC: nuclear test detection x-ray detection
DESC: nuclear test detection initial gamma detection
DESC: SURVEY
DESC: test instruments x-ray effects
SUJO: 4-330-000 ; 4-341-000 ; 4-342-000 ; 4-910-800 ; 4-915-000 ;
4-917-000
SYMJ: PROCEEDINGS OF THE IEEE (U), VOLUME 53, NUMBER 12 (U), P 1935,
DECEMBER, 1965
TITL: VELA SATELLITE PROGRAM FOR DETECTION OF HIGH-ALTITUDE NUCLEAR
DETONATIONS (U),14 P (U)

.block
07247
.endblock

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copy: 1 id: 41873-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07248
AUTH: SOLLFREY W.
CLSS: U
CONN: SD 79 (ARPA)
CORP: RAND CORPORATION (SANTA MONICA-CALIFORNIA)
DATE: 6512
DESC: nuclear test detection EMP earth current detection
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: THEORY
EMPF: 261 ; 223
TSHO: LOW-ALT ; SURFACE
SUJO: 2-510-000 ; 4-914-000
SYMJ: PROCEEDINGS OF THE IEEE (U), VOLUME 53, NUMBER 12 (U), P 2035,
DECEMBER, 1965

TITL: EFFECTS OF PROPAGATION ON THE HIGH-FREQUENCY ELECTROMAGNETIC
RADIATION FROM LOW-ALTITUDE NUCLEAR EXPLOSIONS (U), 8 P (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 07261

AUTH: BOUCHER R.J. ; PEARSON J.B.

CLSS: U

CORP: HUGHES AIRCRAFT COMPANY (CULVER CITY-CA)

DATE: 6505

DESC: THEORY

DESC: Radiation Transport neutron

DESC: Radiation Transport gamma

DESC: Nuclear Weapon Environment Initial Gamma

DESC: Nuclear Weapon Environment Prompt Neutrons

SUJO: 1-100-000 ; 1-700-000 ; 9-620-000 ; 9-650-000

SYMJ: JOURNAL OF APPLIED PHYSICS, VOLUME 36, NUMBER 9, SEPTEMBER 1965

TITL: TRANSIENT RADIATION ENVIRONMENT OF NUCLEAR WEAPON DETONATIONS (U), 8
P (U)

TREE: 910 ; 920

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copy: 1 id: 41887-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 07262

AUTH: BROWN W.L.

CLSS: U

CORP: BELL TELEPHONE LABORATORIES (MURRAY HILL-NJ)

DATE: 6600

DESC: SATELLITE (TELSTAR) SATELLITE (EXPLORER 15) ; EXPERIMENTAL

DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping

SHOT: STARFISH ; RUSSIAN (62-10-22) ; RUSSIAN (62-10-28) ; RUSSIAN

(62-11-01)

TSHO: HI-ALT

SUJO: 2-217-000

TITL: OBSERVATIONS OF THE TRANSIENT BEHAVIOR OF ELECTRONS IN THE
ARTIFICIAL RADIATION BELTS (U), 23 P (U)

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copy: 1 id: 41888-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 07264
AUTH: OCHS G.R.
CLSS: U
CORP: NATIONAL BUREAU OF STANDARDS (BOULDER-CO)
DATE: 6600
DESC: Nuclear Weapon Environment Induced Synchrotron Noise
DESC: EXPERIMENTAL
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-420-000
TITL: SYNCHROTRON RADIATION MEASUREMENTS NEAR THE MAGNETIC EQUATOR (U), 10
P (U)

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copy: 1 id: 41890-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07266
AUTH: WALT M.
CLSS: U
CORP: LOCKHEED MISSILES AND SPACE COMPANY (PALO ALTO-CA)
DATE: 6600
DESC: SUMMARY
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-213-000
TITL: OVERALL ANALYSIS OF EXPERIMENTS ON ARTIFICIAL RADIATION BELTS (U), 5
P (U)

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07266
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copy: 1 id: 41892-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07268
AUTH: WEST H.I. JR.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6500
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: EXPERIMENTAL

SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-213-000
TITL: TRAPPED ELECTRON SPECTRA FROM THE STARFISH DETONATION AND FROM THE
OUTER BELT IN THE FALL OF 1962 (U), 3 P (U)

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copy: 1 id: 41894-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07269
AUTH: ELLIOT H.
CLSS: U
CORP: IMPERIAL COLLEGE (LONDON-ENGLAND-U.K.)
DATE: 6600
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
LA: UK
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-217-000
TITL: SOME COSMIC RAY AND RADIATION BELT OBSERVATIONS BASED ON DATA FROM
THE ANTON 302 G-M COUNTER IN ARIEL I (U), 23 P (U)

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07269

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copy: 1 id: 41895-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07270
AUTH: WEST H.I. JR.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6600
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: EXPERIMENTAL
SHOT: RUSSIAN (62-10-28)
TSHO: HI-ALT
SUJO: 2-213-000 ; 2-217-000
TITL: SOME OBSERVATIONS OF THE TRAPPED ELECTRONS PRODUCED BY THE RUSSIAN
HIGH-ALTITUDE NUCLEAR DETONATION OF OCTOBER 28, 1962 (U), 28 P (U)

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copy: 1 id: 41896-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07300
AUTH: KUKUSHKIN Y.V. ; STRELKOV A.S.
CLSS: U
DATE: 6502
DESC: SATELLITE (COSMOS 5) ; EXPERIMENTAL THEORY
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-211-000 ; 2-212-000
SYMJ: KOSMICHESKIE ISSLEDOVANIYA, VOLUME 4, NO. 1, PP 105-110
(JANUARYFEBRUARY 1966)
TITL: RECORDING OF FRAGMENTARY GAMMA RADIATION DURING THE HIGH-LEVEL
NUCLEAR BURST OVER JOHNSTON ISLAND ON JULY 9, 1962 (U), 5 P (U)

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07300
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07302
AUTH: ALBERT R.D.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6508
DESC: EXPERIMENTAL THEORY
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Orbital Mechanics
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 1-120-000 ; 9-100-000
SYMJ: PHYSICAL REVIEW, VOLUME 142, NUMBER 3, FEBRUARY 1966
TITL: U 233 FISSION CROSS SECTION MEASURED USING A NUCLEAR EXPLOSION IN
SPACE (U), 10 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07303

AUTH: ALBERT R.D.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6508
DESC: EXPERIMENTAL
DESC: Orbital Mechanics
TSHO: HI-ALT
SUJO: 9-100-000
SYMJ: PHYSICAL REVIEW LETTERS, VOLUME 15, NUMBER 15, 11 OCTOBER 1965
TITL: HIGH-ENERGY (0.1-2 MEV) FISSION CROSS-SECTION STRUCTURE MEASURED
USING A NUCLEAR EXPLOSION IN SPACE (U), 3 P (U)

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copy: 1 id: 41909-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent

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INUM: 07304

AUTH: MALAKHOV S.G. ; SEREDA G.A. ; BRENDAKOV V.F. ; POLYAKOVA T.V. ;
PERVUNINA R.I.; SVISHCHEVA V.I. ; CHURKIN V.N.

CLSS: U

DATE: 6502

DESC: Nuclear Weapon Environment radiation decay isotopic half lives

DESC: EXPERIMENTAL

SUJO: 2-223-410

SYMJ: SOVIET ATOMIC ENERGY, VOLUME 19, NO. 1, PP 28-35 (JULY 1965)

TITL: RADIOACTIVE FALLOUT ON THE TERRITORY OF THE USSR IN 1963 (U), 8 P
(U)

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

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INUM: 07307

AUTH: NESTEROV V.Y. ; PISARENKO N.F. ; SAVENKO I.A. ; TELTSOV M.V. ;
SHAVRIN P.I. ; SHARVINA K.N.

CLSS: U

DATE: 6506

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

DESC: SATELLITE (COSMOS 7) SATELLITE (COSMOS 9) SATELLITE (COSMOS 12)
SATELLITE (COSMOS 15) ; EXPERIMENTAL

REPN: NASA TT F 389

TSHO: HI-ALT

SUJO: 2-212-000

TITL: STUDY OF THE INNER AND ARTIFICIAL RADIATION ZONES OF THE EARTH AT
LOW ALTITUDES IN 1960-1964, PAPER PRESENTED AT ALL-UNION CONFERENCE

ON SPACE PHYSICS, SCIENCE PUBL. HOUSE, MOSCOW, JUNE 10-16, 1965 (U),
11 P (U)

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copy: 1 id: 41913-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 07318

AUTH: EMERLING R.A. ; MULLINS J.H. ; VAN PUTTEN J. ; MALOY J.O. ;
BARTHOLOMEW H.G.

CLSS: U

CORP: ELECTRO-OPTICAL SYSTEMS INCORPORATED (PASADENA-CALIFORNIA)

DATE: 6602

DESC: test instruments nuclear radiation gamma

SUJO: 4-341-000

SYMJ: IEEE TRANSACTIONS OF NUCLEAR SCIENCE, NS-13, NO. 1, PP 569-579,
FEBRUARY 1966

TITL: ROCKET GAMMA SCANNING OF NUCLEAR BURSTS (U), 11 P (U)

TREE: 651

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 07320

AUTH: WALT M. ; NEWKIRK L.L.

CLSS: U

CONN: NASR 116 (NASA)

CORP: LOCKHEED MISSILES AND SPACE COMPANY (PALO ALTO-CALIFORNIA)

DATE: 6603

DESC: SATELLITE (INJUN 1) ; 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 71, NUMBER 13 (U), P
3265, JULY 1, 1966

TITL: ADDITION TO INVESTIGATION OF THE DECAY OF THE STARFISH RADIATION
BELT (U), 8 P(U)

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copy: 1 id: 41925-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 07448
AUTH: LOMMASSON T.E. ; KELLER J.A.
CLSS: U
CONN: DASA 01 67 C 0008
CORP: DIKEWOOD CORPORATION (ALBUQUERQUE-NEW MEXICO)
DATE: 6612
DESC: THEORY
DESC: Nuclear Weapon Effects on plants thermal
DESC: Nuclear Weapon Effects on animals thermal burns heating
REPN: DC TN 1058 1
SUJO: 3-313-100 ; 3-333-000
TITL: MACROSCOPIC VIEW OF FIRE PHENOMENOLOGY AND MORTALITY PREDICTION, A
PAPER PRESENTED AT THE SYMPOSIUM ON MASS FIRE RESEARCH, FEB. 6-9,
1967, PANEL N-3 (THERMAL RADIATION) OF TECHNICAL COOPERATION PROGRAM
(U), 15 P (U)

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copy: 1 id: 41946-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07482
ADNO: 388114
AUTH: THAYNE L. ; LANG G.
CLSS: SRD
CONN: AF 04 694 681
CORP: MARTIN COMPANY (DENVER-CO)
DATE: 6512
DESC: Nuclear Weapon Effects missile systems strategic L1 TITAN II X RAY
GAMMA
DESC: Nuclear Weapon Effects electrical mechanical power generation L9
ROCKET MOTOR P 65
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5 NUCLEAR RADIATION PERMANENT DAMAGE
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L5 DEV-31 DEV-23 DEV-96
DESC: Nuclear Weapon Effects materials metals alloys L1 AL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L5 NUCLEAR RADIATION
PERMANENT DAMAGE
REPN: CR 65 93
SUJO: 1-610-000 ; 3-112-100 ; 3-221-000 ; 3-229-000 ; 3-232-000 ;
3-243-000
TEMP: 57648
TITL: TITAN II SPECIAL X-RAY STUDY (U), 76 P, (SRD)
TREE: 392

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

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INUM: 07666
ADNO: 800753
AUTH: STRAKER E.A.
CLSS: U
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)
DATE: 6608
DESC: TABULAR SUMMARY
DESC: Radiation Transport neutron L1
REPN: ORNL TM 1547
SUJO: 9-650-000
TITL: CALCULATIONS OF THE TRANSPORT OF NEUTRONS FROM FISSION AND 14 MEV
POINT SOURCES IN AN INFINITE MEDIUM OF AIR (U), 19 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: 07682
CLSS: CRD
CONN: SNP 1
CORP: AEROJET-GENERAL CORPORATION (SACRAMENTO-CALIFORNIA)
DATE: 6504
DESC: SIMULATION ; EXPERIMENTAL
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic

sources

DESC: Nuclear Weapon Effects ordnance explosives
DESC: Nuclear Weapon Effects ordnance propellants solid
EFFT: NUCLEAR RADIATION
REPN: RN S 0210
SUJO: 3-163-000 ; 3-164-000 ; 4-241-000
TEMP: 59603
TITL: PHASE ONE OF THE COUNTERMEASURE RADIATION EFFECTS PROGRAM, FINAL
TEST REPORT (U), 180 P (CRD)

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copy: 1 id: 41975-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07683
CLSS: CRD
CONN: SNP 1
CORP: AEROJET-GENERAL CORPORATION (SACRAMENTO-CALIFORNIA)
DATE: 6504
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance explosives
DESC: Nuclear Weapon Effects ordnance propellants solid
EFFT: NUCLEAR RADIATION ; TREE
REPN: RN S 0217
SUJO: 3-163-000 ; 3-164-000
TEMP: 59604
TITL: PHASE I-B OF THE COUNTERMEASURES RADIATION EFFECTS PROGRAM, FINAL
REPORT (U), 56 P (CRD)

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copy: 1 id: 41976-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07684
CLSS: CRD
CONN: SNP 1
CORP: AEROJET-GENERAL CORPORATION (SACRAMENTO-CALIFORNIA)
DATE: 6511
DESC: Nuclear Weapon Effects ordnance propellants solid
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance explosives
EFFT: NUCLEAR RADIATION ; TREE
REPN: RN S 0268
SUJO: 3-163-000 ; 3-164-000
TEMP: 59605
TITL: PHASE I-D (KIWI-TNT) OF THE COUNTERMEASURES RADIATION EFFECTS
PROGRAM, FINAL TEST REPORT (U), 28 P (CRD)

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

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INUM: 07685
CLSS: CRD
CONN: SNP 1
CORP: AEROJET-GENERAL CORPORATION (SACRAMENTO-CALIFORNIA)
DATE: 6603
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance propellants solid
DESC: Nuclear Weapon Effects ordnance explosives

EFFT: NUCLEAR RADIATION ; TREE
REPN: RN S 0280
SUJO: 3-163-000 ; 3-164-000
TEMP: 59606
TITL: PHASE I-C, COUNTERMEASURES RADIATION EFFECTS PROGRAM, FINAL TEST
REPORT (U), 88 P (CRD)

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copy: 1 id: 41978-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 07716
ADNO: 357750
AUTH: MAPES J.E. ; HESS J.W. ; KAUFMAN R. ; LEVY P.W.
CLSS: C
CORP: PICATINNY ARSENAL (DOVER-NJ)
DATE: 6502
DESC: Nuclear Weapon Effects ordnance explosives L1 NUCLEAR RADIATION
DESC: EXPERIMENTAL
REPN: TR 3107
SUJO: 3-163-000
TEMP: 59240
TITL: PHYSICAL EFFECTS OF GAMMA RAYS ON PLASTIC-BONDED HMX AND DATB
COMPOSITIONS-GROUP II (U), TECHNICAL REPORT, 59 P, (S)

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07716

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copy: 1 id: 42008-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07720
AUTH: CASTORINA T.C. ; HABERMAN H. SMETANA A.F.
CLSS: U
CONN: DA 1 CO 14501 A 32 B 01
CORP: PICATINNY ARSENAL (DOVER-NJ)
DATE: 6602
DESC: Nuclear Weapon Effects ordnance explosives L1 NUCLEAR RADIATION
SIMULATION
REPN: TR 3282
SUJO: 3-163-000
TITL: RADIATION-ENHANCED SURFACE ACTIVITY OF GAMMA HMX (U), TECHNICAL
REPORT, 27 P (U)

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copy: 1 id: 42012-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07777
ADNO: 487610
AUTH: EPSTEIN L.M. ; FERBER R.R.
CLSS: U
CONN: AF 29 601 6706
CORP: WESTINGHOUSE RESEARCH AND DEVELOPMENT CENTER (PITTSBURGH-PA)
DATE: 6606
DESC: test instruments nuclear radiation neutron L1
DESC: EXPERIMENTAL
REPN: AFWL TR 66 20
SUJO: 4-342-000
TITL: INVESTIGATION OF A FAST NEUTRON MONITORING SYSTEM USING
SEMICONDUCTOR DETECTORS (U), TECHNICAL REPORT, 96 P (U)
TREE: 652

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07777

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copy: 1 id: 42055-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07781
ADNO: 474657
AUTH: ABEL G.K.
CLSS: U
CORP: GENERAL DYNAMICS (FORT WORTH-TX)
DATE: 6511
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation gamma L1
REPN: AFWL TR 65 113 ; FZK 245
SUJO: 4-341-000
TITL: SOLID-STATE GAMMA-RAY DETECTOR (U), TECHNICAL REPORT, 78 P, (U)
TREE: 651

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07781

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copy: 1 id: 42058-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 07796
AUTH: GILBERT F.C.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6505

DESC: THEORY
DESC: Nuclear Weapon Environment Induced Changes in Observables
Discrimination

REPN: UCRL 14118
SUJO: 2-330-000
TEMP: 59786
TITL: CLASSIFIED TITLE (U), 16 P (SRD)

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copy: 1 id: 42062-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07918
ADNO: 369588L
AUTH: KIRSHENBAUM M.S.
CLSS: SRD
CORP: PICATINNY ARSENAL (DOVER-NJ)
DATE: 6602
DESC: CONVENTIONAL SIMULATION NUCLEAR RADIATION PERMANENT DAMAGE ;
EXPERIMENTAL

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1

DESC: Nuclear Weapon Effects missile systems tactical L5 LANCE

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

REPN: TECHNICAL REPORT 3281

SUJO: 3-112-300 ; 3-162-000 ; 3-229-000

TEMP: B8331

TITL: EFFECTS OF NUCLEAR RADIATION ON SELECTED THERMAL BATTERIES, ELECTRIC
EXPLOSIVESWITCHES, AND ELECTRIC SQUIBS (U), TECHNICAL REPORT, 32 P,
(SRD)

TREE: 392

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07918

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copy: 1 id: 42134-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07920
ADNO: 375914
AUTH: CARTER D.B. ; SMITH E.C. ; WALKER K.R.
CLSS: SRD
CONN: AF 29 601 6721
CORP: HUGHES-FULLERTON (FULLERTON-CA)
DATE: 6609
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L9 P 12 SEA LEVEL P 14 100K FEET P 16 ABOVEATMO
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 NEUTRONS

DESC: Nuclear Weapon Environment Thermal Output source strength total intensity L9

DESC: Nuclear Weapon Environment Initial Gamma source strength total intensity L9

DESC: Nuclear Weapon Environment X-ray Output source strength total intensity L9

DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE.L9

DESC: Cross Sections neutron L1

REPN: AFWL TR 66 41 VOL II

SUJO: 1-110-000 ; 1-210-000 ; 1-610-000 ; 1-710-000 ; 2-611-000 ; 3-221-000 ; 9-820-000

TEMP: B8240

TITL: ANALYTICAL AND EXPERIMENTAL PREDICTIONS OF FUSION NEUTRON RADIATION EFFECTS, VOLUME II, 52 P, (SRD)

TREE: 310

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copy: 1 id: 42135-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 07921

ADNO: 398502

AUTH: GARRARD D.J.

CLSS: C

CORP: MINISTRY OF AVIATION (LONDON-UK)

DATE: 6607

DESC: Nuclear RDT&E Research Program Descriptions integrated effects system studies L5

DESC: Nuclear Weapon Effects flight systems airplanes L1

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear radiation transport L5

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L5

DESC: Nuclear Weapon Effects electronic pieceparts L5 EMP

DESC: Nuclear Weapon Effects materials wood paper cellulose films L5

PHOTOGRA FILM

DESC: INTEGRATED EFFECTS ; SUMMARY

DESC: Nuclear Weapon Effects animals L7

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability L5

LA: UK

REPN: AW 1/66 ; EN 1/66

SUJO: 2-510-000 ; 3-111-000 ; 3-220-000 ; 3-246-000 ; 3-310-000 ; 4-140-000 ; 4-160-000 ; 4-170-000

TEMP: B8258

TITL: VULNERABILITY OF AIRCRAFT AND AIRCRAFT EQUIPMENT TO THE EFFECTS OF NUCLEAR EXPLOSIONS, A. W. EFFECTS NOTE (U), CIRCA 25 P (C)

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copy: 1 id: 42136-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07926
ADNO: 479126
AUTH: BELL J.E. ; CARR E.A. ; HANDLEY W.V. ; WALKER K.R.
CLSS: U
CONN: AF 29 601 6404
CORP: HUGHES AIRCRAFT COMPANY (FULLERTON-CA)
DATE: 6603
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 X RAY NUCLEAR RADIATION TRANSIENTS
DESC: THEORY EXPERIMENTAL
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5
REPN: AFWL TR 65 205
SUJO: 3-221-000 ; 4-170-000
TITL: SIMPLIFIED ENGINEERING TECHNIQUES FOR PREDICTING DIODE TREE
RESPONSES (U), 82 P, (U)
TREE: 310

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copy: 1 id: 42141-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 07975
ADNO: 393123L
AUTH: LINDSEY P.W. ; EVANS R.D. ; BRODING W. ; STEIN E.
CLSS: SRD
CONN: AF 04 (694) 824
CORP: AIR FORCE/SPACE AND MISSILE SYSTEMS ORGANIZATION (NORTON AIR FORCE
BASE-CA) ; AVCO CORPORATION (WILMINGTON-MA)
DATE: 6609
DESC: RADS ; THEORY
DESC: Nuclear Weapon Effects reentry systems RV
EFFT: X-RAY
REPN: BSD TR 66 372 VOL 6 ; AVMSD 0339 66 RR VOL 6
SUJO: 3-113-000
TEMP: 59935
TITL: RADIATION DAMAGE STUDY (RADS) FINAL REPORT VOLUME VI, VEHICLE
RESPONSE (U) 325 P (SRD)

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copy: 1 id: 42186-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 08135
AUTH: GREER C.L. ; WALKER J.V.
CLSS: U
CCDE: SPECTRA
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)
DATE: 6608
DESC: THEORY
DESC: test instruments nuclear radiation neutron
REPN: SC DC 66 1512
SUJO: 4-342-000
TITL: PROCEDURE FOR THE COMPUTATION OF NEUTRON FLUX FROM FOIL ACTIVATION
DATA-SPECTRA CODE (U), 17 P (U)
TREE: 652

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08135
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copy: 1 id: 42314-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 08190
AUTH: RENKEN J.H.
CLSS: U
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)
DATE: 6504
DESC: THEORY
DESC: Radiation Transport x-ray
REPN: SC RR 65 141
SUJO: 9-640-000
TITL: TRANSMISSION OF X RAYS THROUGH AIR (U), 47 P (U)
TREE: 980

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08190
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copy: 1 id: 42368-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 08490
ADNO: 463895
AUTH: KSANDA C.F.
CLSS: U
CONN: AT (49 7) 2236
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6503
DESC: EXPERIMENTAL THEORY

DESC: Nuclear Weapon Environment fallout arrival time
DESC: Nuclear Weapon Environment fallout down fraction
DESC: Nuclear Weapon Environment fallout transport
REPN: USNRDL TR 833
SUJO: 2-224-200 ; 2-225-200 ; 2-225-300
TITL: SOME RELATIONS BETWEEN THE TIMES OF ARRIVAL AND CESSATION OF FALLOUT
(U), 60 P(U)

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copy: 1 id: 42612-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 08523
ADNO: 478362
AUTH: HALL G.A. ; HOLLAND C.L.
CLSS: U
CCDE: SREC
CORP: BOEING AIRCRAFT COMPANY (SEATTLE-WA)
DATE: 6602
DESC: Cross Sections neutron
DESC: REPORT IS MOTLY ILLEGIBLE ; THEORY CODE
DESC: Cross Sections gamma
REPN: D 2 84106 1
SUJO: 9-820-000 ; 9-830-000
TITL: ENERGY DEPOSITION AND TRANSMISSION OF RADIATION EMITTED BY A NUCLEAR
DETONATION-A COMPUTER CODE (U), 124 P (U)

TREE: 960 ; 970

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copy: 1 id: 42637-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 08586

ABS: This report evaluates firehosing as a wet reclamation procedure for the operational recovery of asphalt paved streets contaminated with fallout from a land surface nuclear detonation. Preliminary tests with inert fallout simulant determined the optimum nozzle stream range and firehosing technique. Principal tests, conducted with radio-traced simulants, measured the effects of hosing rate, stream pattern, particle size and mass loading on the fallout removal performance of firehosing. Several conclusions were indicated: (1) a slow hosing rate (visually controlled) was more effective than a faster rate, regardless of mass loading or particle size range. (2) the removal effectiveness improved with increased particle size range and increased mass loading. (3) an experimental NRDL "flare" nozzle appeared to improve hosing performance at nozzle pressures

greater than 150 psi.

ABS: Graphs showing the effect of hosing rate, particle size, mass loading and stream pattern on the reclamation performance of firehosing are presented.

ADNO: 641480
AUTH: WILTSHIRE L.L. ; OWEN W.L..
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6507
DESC: Nuclear Weapon Environment fallout down fraction
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic external
REPN: USNRDL TR 1049
SUJO: 2-225-200 ; 3-312-210
TITL: REMOVAL OF SIMULATED FALLOUT FROM ASPHALT STREETS BY FIREHOSING TECHNIQUES (U), 86 P (U)

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INUM: 08590
ADNO: 634135
AUTH: LINCOLN K.A.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6604
DESC: test instruments nuclear radiation proton alpha heavy particle
REPN: USNRDL TR 1014
SUJO: 4-343-000
TITL: FEASIBILITY OF ANALYZING ABLATOR BLOW-OFF GASES WITH A TIME-OF-FLIGHT MASS SPECTROMETER (U), 44 P (U)

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INUM: 08591
ADNO: 641481
AUTH: GIBBONS M.G.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6611
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
DESC: THEORY

REPN: USNRDL TR 1060
SUJO: 5-200-000
TITL: TRANSMISSIVITY OF THE ATMOSPHERE FOR THERMAL RADIATION FROM NUCLEAR
WEAPONS (U), 32 P (U)

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INUM: 08592
ADNO: 642319
AUTH: BUNNEY L.R. ; SAM D.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6609
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
SPECTRA
DESC: EXPERIMENTAL
REPN: USNRDL TR 1076
SUJO: 2-223-200
TITL: GAMMA-RAY SPECTRA OF THE PRODUCTS OF FAST NEUTRON FISSION OF U 235
AND U 238 AT SELECTED TIMES AFTER FISSION (U), 36 P (U)

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INUM: 08594
ABS: Roof washdown studies were conducted on typical roofing surfaces and
a basic washdown system was developed. An analysis of the roof
washdown countermeasure showed it to be valuable only on buildings
with heavily shielded walls or where the occupants are confined to
the center of a building with a very large floor area. A complete
recirculating roof washdown system will cost only 45 percent of the
cost of a concrete roof that would give a similar reduction of 98
percent in the roof contribution to gamma radiation exposure inside
the structure.

ADNO: 644698
AUTH: HEISKELL R.H.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6501
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1 WITHIN BUILDING
REPN: USNRDL TR 1064

SUJO: 3-312-210
TITL: DESIGN OF ROOF WASHDOWN SYSTEMS, FINAL REPORT (U), 50 P (U)
TNFF: 6220

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INUM: 08598
ADNO: 630782
AUTH: PERKINS W.W. ; RAILEY R.M.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6512
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

external

REPN: USNRDL TR 972
SUJO: 3-312-210
TITL: OPERATION OF SHIPBOARD WASHDOWN IN FREEZING WEATHER (U), 111 P (U)

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INUM: 08600
ADNO: 638014
AUTH: THOMPSON W.E. ; ENGESSER F.C.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6607
DESC: Orbital Mechanics
DESC: Cross Sections neutron L1 GAMMA PRODUCTION CROSS SECTIONS NA S PB CL

K

DESC: EXPERIMENTAL
REPN: USNRDL TR 1043
SUJO: 9-100-000 ; 9-820-000
TITL: GAMMA RAYS RESULTING FROM INTERACTIONS OF 14.7 MEV NEUTRONS WITH
SODIUM, SULFUR, CHLORINE, POTASSIUM AND LEAD (U), 26 P (U)

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INUM: 08605
ADNO: 632242
AUTH: FERGUSON J.M. ; READ P.A.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6603
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: Orbital Mechanics
REPN: USNRDL TR 992
SUJO: 2-223-100 ; 9-100-000
TITL: CALCULATIONS OF THE ENERGY AND MASS YIELDS FROM THE THERMAL-NEUTRON
FISSION OFU-235 (U), 35 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08607
ADNO: 646004
AUTH: BUNNEY L.R. ; SAM D.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6610
DESC: EXPERIMENTAL THEORY
DESC: Nuclear Weapon Environment radiation decay gamma decay
REPN: USNRDL TR 1106
SUJO: 2-223-420
TITL: EXPOSURE RATES FROM THE PRODUCTS OF FAST NEUTRON FISSION OF U-235
AND U-238 ATSELECTED TIMES AFTER FISSION (U), 9 P (U)

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INUM: 08608
ADNO: 645552
AUTH: SHUMWAY B.W.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6607
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Cross Sections gamma
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

external

DESC: EXPERIMENTAL THEORY
REPN: USNRDL TR 1045
SHOT: SMALLBOY
TSHO: SURFACE
SUJO: 2-223-200 ; 3-312-210 ; 9-830-000
TITL: EXPERIMENTAL AND CALCULATED ESTIMATES OF THE SHIELDING EFFECTIVENESS
OF COMPARTMENTED STRUCTURES EXPOSED TO FALLOUT (U), 43 P (U)

TREE: 411

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INUM: 08617

ADNO: 369917

AUTH: KSANDA C.F. ; POLAN M. ; RICHARDS C.N.

CLSS: C

CORP: FORD INSTRUMENT COMPANY (LONG ISLAND-NY) ; SAN JOSE STATE COLLEGE
(SAN JOSE-CA) ; NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CA)

DATE: 6511

DESC: Nuclear Weapon Environment fallout intensity contours patterns

DESC: Nuclear Weapon Environment fallout accumulation rate

DESC: SURVEY

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

REPN: USNRDL TR 938

SUJO: 2-225-100 ; 2-225-400 ; 4-140-000

TEMP: A5328

TITL: USNRDL-DASA FALLOUT SYMPOSIUM PROJECT-FINAL REPORT, I. SUMMARY OF
SYMPOSIUM PROJECT, II. SYMPOSIUM PROCEEDING, SEPTEMBER 1962 (U), 253
P (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08632

ADNO: 628982

AUTH: KSANDA C.F. ; LAUMETS E. ; HOGAN M.A.

CLSS: U

CCDE: ZZ

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

DATE: 6512

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: CODE THEORY
DESC: Nuclear Weapon Environment radiation decay gamma decay
REPN: USNRDL TR 941
SUJO: 2-223-200 ; 2-223-420
TITL: GAMMA-RAY ENERGY PSEUDOSPECTRA FOR U-235 FISSION PRODUCTS AND FOR
VARIOUS TIMES AFTER FISSION (U), 84 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08634
ADNO: 626996
AUTH: LAUMETS E.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO, CA)
DATE: 6511
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
DESC: SURVEY
REPN: USNRDL TR 905
SUJO: 3-312-100
TITL: TIME HISTORY OF BIOLOGICAL RESPONSE TO IONIZING RADIATION (U), 36 P
(U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08635
ADNO: 627235
AUTH: HOGAN M.A. ; CRAWFORD J.K. ; GODDARD V.
CLSS: U
CCDE: (FISSION PRODUCT ABUNDANCES)
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6510
DESC: CODE THEORY
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
REPN: USNRDL TR 921
SUJO: 2-223-410
TITL: COMPUTER PROGRAM FOR CALCULATING FISSION PRODUCT ABUNDANCES (U), 163
P (U)

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INUM: 08666
ADNO: 807563L
AUTH: WICKLEIN H.W.
CLSS: U
CONN: AF 04 (694) 666 ; AF 04 (694) 838
CORP: BOEING AIRCRAFT COMPANY (SEATTLE-WA) ; AIR FORCE/SPACE AND MISSILE
SYSTEMS ORGANIZATION (NORTON AIR FORCE BASE-CA)
DATE: 6612
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers
EFFT: NUCLEAR RADIATION
REPN: BSD TR 66 400
SUJO: 3-213-000 ; 3-221-000 ; 3-222-000
TITL: ADVANCED GUIDANCE SYSTEM MICROCIRCUIT AND TRANSISTOR HARDENING
STUDIES (U), 91P (U)
TREE: 342

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INUM: 08674
ADNO: 469392
AUTH: FRANK A.L. ; TAYLOR R.A.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6506
DESC: THEORY EXPERIMENTAL
DESC: test instruments nuclear radiation gamma
DESC: Nuclear Weapon Environment fallout Deposition topographic factors
vegetation surface roughness
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
REPN: USNRDL TR 858
SUJO: 2-223-200 ; 2-225-600 ; 4-341-000
TITL: GAMMA RADIATION CHARACTERISTICS, ANGULAR DISTRIBUTION OVER A DESERT
TERRAIN FALLOUT FIELD (U), 73 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 08675
ADNO: 472942
AUTH: ZAGORITES H.A.
CLSS: O
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6506
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
SUJO: 3-221-000
TITL: NUCLEAR DOSE EFFECTS ON AN INSULATED-GATE THIN-FILM TRANSISTOR,
REVIEWS AND LECTURES, PRESENTED AT THE THIRD NAVY MICROELECTRONICS
CONFERENCE AT MONTEREY, CALIFORNIA, 5-7 APRIL, 1965 (U), 19 P (OUO)
TREE: 320

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INUM: 08687

ABS: This report describes three separate firehosing experiments. Each employed radio-traced simulant in order to measure removal effectiveness. Two of the experiments, which were conducted on asphalt streets, concluded the test series started in 1963. The first experiment investigated the feasibility of the NRDL flare nozzle as a reclamation tool for paved surfaces. The second experiment consisted of the full scale reclamation of a street area. This provided operational data and firehose-crew exposure-rate histories. The third experiment, which involved the reclamation of roof surfaces, was a renewal of earlier work performed by this laboratory between 1952 and 1958. New roofing materials were tried and particle size effects were measured.

ABS: From these three experiments it was concluded that : (1) effectiveness of reclamation by firehosing improves as surface roughness decreases and particle size increases, (2) removal effectiveness improves with effort, but the residual mass is not significantly reduced after the second pass, (3) the flare nozzle is consistently more effective than the fire nozzle in cleaning roof surfaces. This is not the case for paved surfaces, (4) results from full scale tests show that the removal effectiveness can never equal that achieved under the less realistic operating conditions represented by smaller engineering-scale tests, and (5) RN2 exposure reduction factors are not significantly affected by surface roughness, particle size or mass loading.

ADNO: 640491
AUTH: WILTSHIRE L.L. ; OWEN W.L.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 6601
DESC: Nuclear Warfare Postattack Recovery decontamination L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects structures aboveground cities
EFFT: FALLOUT
REPN: USNRDL TR 1048
SUJO: 3-252-000 ; 3-448-900
TITL: THREE TESTS OF FIREHOSING TECHNIQUE AND EQUIPMENT FOR THE REMOVAL OF
FALLOUT FROM ASPHALT STREETS AND ROOFING MATERIALS (U), 58 P (U)

TNFF: 6290

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INUM: 08692

ADNO: 623078

AUTH: RAMSTEDT C.F. ; ZAGORITES H.A. ; LEE D.Y.

CLSS: U

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

DATE: 6508

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers

DESC: EXPERIMENTAL

EFFT: NUCLEAR RADIATION

REPN: USNRDL TR 885

SUJO: 3-221-000

TITL: INFLUENCE OF TEMPERATURE ON RADIATION-INDUCED SURFACE EFFECTS IN
TRANSISTORS (U), 185 P (U)

TREE: 310

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INUM: 08693

ADNO: 629527

AUTH: KAWAHARA F.K. ; CREW R.J.

CLSS: U

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

DATE: 6508

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment fallout Deposition topographic factors

vegetation surface roughness

DESC: Nuclear Weapon Effects structures aboveground components

REPN: USNRDL TR 953

SUJO: 2-225-600 ; 3-251-100
TITL: DISTRIBUTION OF VOLCANIC FALLOUT IN AND ABOUT A ONE-STORY RESIDENCE
(U), 51 P (U)

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INUM: 08695
ADNO: 632356
AUTH: CROCKER G.R.
CLSS: U
CONN: AT (49 7) 1964 MOD 6
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6601
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout fractionation
REPN: USNRDL TR 991
TSHO: WATER-SURFACE ; SURFACE
SUJO: 2-223-500
TITL: RADIOCHEMICAL DATA CORRELATIONS FOR SEAWATER AND CORAL-SURFACE
BURSTS (U), 22 P (U)

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INUM: 08716
ADNO: 623485
AUTH: CROCKER G.R. ; OCONNOR J.D. ; FREILING E.C.
CLSS: U
CONN: AEC (AT 49) 2505 (4)
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6506
DESC: Nuclear Weapon Environment Fallout Radioproperties
DESC: Nuclear Weapon Environment Fallout Particles
DESC: EXPERIMENTAL SUMMARY
REPN: USNRDL TR 899
SUJO: 2-222-000 ; 2-223-000
TITL: PHYSICAL AND RADIOCHEMICAL PROPERTIES OF FALLOUT PARTICLES (U), 18 P
(U)

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INUM: 08717
ADNO: 645105
AUTH: HOGAN O.L.
CLSS: U
CONN: AT (49 5) 2505 (2)
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6610
DESC: Nuclear Weapon Environment radiation decay gamma decay
DESC: Orbital Mechanics
DESC: THEORY TABULAR EXPERIMENTAL
REPN: USNRDL TR 1093
SUJO: 2-223-420 ; 9-100-000
TITL: BETA SPECTRA, III, SPECTRA OF U-235 FISSION PRODUCTS AT SELECTED
TIMES AFTER FISSION (U), 48 P (U)

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INUM: 08723
ADNO: 629404
AUTH: SCHROCK V.E.
CLSS: U
CONN: AT (49 5) 2085
CORP: NAVY/NAVAL RADIOLOGICAL LABORATORY (SAN FRANCISCO-CA)
DATE: 6504
DESC: Nuclear Weapon Environment Fallout Particles chemical composition
solubility
DESC: THEORY EXPERIMENTAL
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources
REPN: USNRDL TR 940
SUJO: 2-222-100 ; 4-241-000
TITL: PULSED REACTOR SIMULATION OF UNDERWATER NUCLEAR DETONATIONS, THERMAL
ANALYSIS (U), 27 P (U)

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INUM: 08726
AUTH: SANDMEIER H.A. ; HANSEN G.E. ; LAZARUS R.B. ; HOWERTON R.J.

CLSS: U
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM) ; LAWRENCE
RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6508
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Cross Sections neutron
DESC: AIR ; THEORY TABULAR
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Radiation Transport neutron
REPN: LA 3415
SUJO: 1-110-000 ; 1-120-000 ; 9-650-000 ; 9-820-000
TITL: COMPUTATION OF FAST NEUTRON PENETRATION IN AIR BY THE SN-METHOD WITH
SPECIAL EMPHASIS ON THE USE OF MULTITABLE-MULTIGROUP CROSS SECTION
SETS (U), 69 P (U)

TREE: 970

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INUM: 08727

ADNO: 623639

AUTH: NUCKOLLS M.J. ; FULLER R.K.

CLSS: U

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

DATE: 6508

DESC: test instruments nuclear radiation fallout debris sampling
collectors

REPN: USNRDL TR 907

SUJO: 4-345-000

TITL: SIZE ANALYSIS OF MINUS 44 MICRON DUST PARTICLES (U), 7 P (U)

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INUM: 08845

ADNO: 380525

AUTH: WICKLEIN H.W.

CLSS: SRD

CONN: AF 04 (694) 838

CORP: BOEING AIRCRAFT COMPANY (SEATTLE-WA)

DATE: 6612

DESC: Nuclear Weapon Effects electronic subsystems guidance control

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects missile systems tactical
DESC: Cross Sections x-ray
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
EFFT: X-RAY ; NUCLEAR RADIATION
REPN: BSD TR 66 381
SUJO: 3-112-300 ; 3-211-000 ; 3-221-000 ; 3-222-000 ; 9-840-000
TEMP: 77522
TITL: ADVANCED GUIDANCE SYSTEM RADIATION STUDIES, FINAL REPORT (U), 206 P
(SRD)

TREE: 342 ; 310 ; 320

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cat1: cat2: home: STACKS current: STACKS
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INUM: 09018
AUTH: BURTON C.A.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6606
DESC: THEORY

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

EFFT: FALLOUT
REPN: UCRL 14922
SUJO: 3-312-210 ; 3-312-220
TITL: GRAPHICAL METHOD FOR CALCULATING THE DOSE IN MAN FROM INDIVIDUAL
RADIONUCLIDESIN FALLOUT (U), 19 P (U)

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INUM: 09019
AUTH: THOMPSON S.E.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6501
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic external

REPN: UCRL 12388
SUJO: 2-223-410 ; 3-332-210
TITL: EFFECTIVE HALF-LIFE OF FALLOUT RADIONUCLIDES ON PLANTS WITH SPECIAL
EMPHASIS ON IODINE-131 (U), 15 P (U)

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INUM: 09020
AUTH: LESSLER R.M. ; GUY F.W.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6503
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: TABULAR
DESC: Nuclear Weapon Environment radiation decay gamma decay
REPN: UCRL 12339 VOL 2
TSHO: SURFACE ; LOW-ALT
SUJO: 2-223-200 ; 2-223-420
TITL: GAMMA DOSE RATES AND INTEGRATED DOSES FROM NEUTRON-INDUCED RESIDUAL
RADIOACTIVITY IN SOIL (U), 280 P (U)

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INUM: 09027
AUTH: TAMPLIN A.R. ; FISHER H.L.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6605
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external
DESC: Nuclear Weapon Environment fallout arrival time
DESC: Nuclear Weapon Environment fallout down fraction
DESC: EXPERIMENTAL THEORY
REPN: UCRL 14707
TSHO: LOW-ALT
SUJO: 2-225-200 ; 2-225-300 ; 3-312-210
TITL: ESTIMATION OF DOSAGE TO THYROIDS OF CHILDREN IN THE U.S. FROM
NUCLEAR TESTS CONDUCTED IN NEVADA DURING 1952 THROUGH 1955 (U), 48 P
(U)

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INUM: 09028

AUTH: RAWSON D.E.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6607

DESC: SURVEY

DESC: Nuclear Energy Peaceful Applications resource production L1

REPN: UCRL 14756

SUJO: 3-483-000

TITL: INDUSTRIAL APPLICATIONS OF CONTAINED NUCLEAR EXPLOSIONS (U), 56 P

(U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 09040

AUTH: WERTH G. ; RANDOLPH P.

CLSS: U

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6511

DESC: nuclear test detection seismic detection

DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration

DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity

REPN: UCRL 14487 REV 1 ;

SHOT: SALMON ; DRIBBLE

TSHO: UG-CONTAINED

SUJO: 2-621-000 ; 2-622-000 ; 4-910-100

TITL: SALMON SEISMIC EXPERIMENT (U), 17 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 09042

AUTH: LATHROP K.D.

CLSS: U
CCDE: DTF-IV
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)
DATE: 6507
DESC: Radiation Transport neutron
DESC: SUMMARY CODE
REPN: LA 3373
SUJO: 9-650-000
TITL: DTF-IV, A FORTRAN-IV PROGRAM FOR SOLVING THE MULTIGROUP TRANSPORT EQUATION WITH ANISOTROPIC SCATTERING (U), 144 P (U)

TREE: 970

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created: 12/27/1991 type: REPORT permanent

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INUM: 09043
AUTH: VAN THIEL M.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6606
DESC: Fluid Mechanics hydrodynamics
DESC: Solid Mechanics stress-strain
DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: TABULAR
DESC: Nuclear Weapon Effects materials not systems associated
EFFT: SHOCK
REPN: UCRL 50108 VOL 1
SUJO: 3-240-000 ; 9-230-000 ; 9-410-000 ; 9-710-000
TITL: COMPENDIUM OF SHOCK WAVE DATA, VOLUME I (U), CIRCA 550 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 09044
AUTH: VAN THIEL M.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6606
DESC: TABULAR
DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: Solid Mechanics stress-strain
DESC: Fluid Mechanics hydrodynamics
DESC: Nuclear Weapon Effects materials not systems associated
EFFT: SHOCK

REPN: UCRL 50108 VOL 2
SUJO: 3-240-000 ; 9-230-000 ; 9-410-000 ; 9-710-000
TTTL: COMPENDIUM OF SHOCK WAVE DATA, SECTIONS B, C, D, INDEX (U), CIRCA
300 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09045
AUTH: RAWSON D. ; RANDOLPH P. ; BOARDMAN C. ; WHEELER V.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6500
DESC: Nuclear Weapon Environment fallout fractionation
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
DESC: EXPERIMENTAL
REPN: UCRL 14280 REV 2
SHOT: SALMON ; DRIBBLE
TSHO: UG-CONTAINED
SUJO: 2-223-410 ; 2-223-500 ; 2-627-000
TTTL: POST-EXPLOSION ENVIRONMENT RESULTING FROM THE SALMON EVENT (U), 40 P
(U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 09088
AUTH: LESSLER R.M. ; GUY F.W.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6508
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay gamma decay
REPN: UCRL 14332
SUJO: 2-223-420
TTTL: GAMMA DOSE CURVES FROM NEUTRON-ACTIVATED SOIL AND SEAWATER COMPARED
WITH FISSION-PRODUCT DECAY (U), 4 P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 09089
AUTH: WEST H.I. JR.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6510
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
REPN: UCRL 14368 T REV 1
SHOT: RUSSIAN (62-10-28)
TSHO: HI-ALT
SUJO: 2-213-000 ; 2-217-000
TITL: SOME OBSERVATIONS OF THE TRAPPED ELECTRONS PRODUCED BY THE RUSSIAN
HIGH-ALTITUDE NUCLEAR DETONATION OF OCTOBER 28, 1962 (U), 40 P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 09090
AUTH: RABB D.D.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6509
DESC: Nuclear Energy Peaceful Applications resource production gas L1
DESC: Nuclear Weapon Effects electrical mechanical
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electrical mechanical pipes valves fittings
EFFT: AIRBLAST ; GROUND SHOCK
REPN: UCRL 14429
TSHO: UG-CONTAINED
SUJO: 3-236-000 ; 3-239-000 ; 3-483-100
TITL: EFFECTS OF NUCLEAR EXPLOSIONS ON GAS WELL HEAD AND GAS FIELD
EQUIPMENT (U), 5 P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 09091
AUTH: SPRINGER D.L.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6510
DESC: SUMMARY
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity
DESC: Seismology
DESC: nuclear test detection seismic detection
REPN: UCRL 14464
TSHO: UG-CONTAINED
SUJO: 2-150-000 ; 2-621-000 ; 4-910-100 ; 6-100-000
TITL: SEISMIC COUPLING OF UNDERGROUND NUCLEAR EXPLOSIONS (U), 27 P (U)

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INUM: 09092
AUTH: KING W.C.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6606
DESC: Nuclear Weapon Test safety
DESC: SUMMARY
DESC: test instruments nuclear radiation gamma
REPN: UCRL 14633
SUJO: 4-341-000 ; 4-856-000
TITL: INSTRUMENT TO DEFINE RADIOACTIVE CLOUDS AND ITS APPLICATION IN
MONITORING UNDERGROUND NUCLEAR TESTS AT NEVADA TEST SITE (U), 25 P
(U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 09132
AUTH: ELSON R. ; BOARDMAN C. ; COOPERSTEIN R. ; COWLES J. ; GOLDFARB D. ;
GRENS J. ; HULET K. ; KAHN J. ; KAY C. ; KOSKINAS G. ; MCKENZIE D. ;
MOEN I. ; NATHANS M. ; SMITH D. ; STETSON R. ; WAGGONER M. ; WEED H.
; WOO L.

CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6505
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport
REPN: UCRL 14494
SUJO: 4-140-000
TITL: COACH PROCESSING, A STUDY OF PROCESSES FOR CONCENTRATING ACTINIDES
FORMED IN ANUCLEAR DETONATION IN A SALT MEDIUM (U), 273 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 09133
AUTH: COPPAGE F.N.
CLSS: U
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)
DATE: 6612
DESC: SUMMARY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches
EFFT: TREE
REPN: SC TM 66 2625
SUJO: 3-229-000
TITL: EVALUATION OF THE EFFECTS OF TRANSIENT RADIATION ON CAPACITORS (U),
19 P (U)

TREE: 370

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created: 12/27/1991 type: REPORT permanent

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INUM: 09137
AUTH: NORDYKE M.D.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6505
DESC: SUMMARY
DESC: Nuclear Energy Peaceful Applications excavation L1
DESC: Nuclear Weapon Environment Ground Shock craters excavations
REPN: UCRL 14171
SUJO: 2-625-000 ; 3-481-000
TITL: PRINCIPLES OF NUCLEAR EXCAVATION (U), 30 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09138
AUTH: RABB D.
CLSS: U
CCDE: POROS ; PUFL ; SOC ; OGRE
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6607
DESC: SUMMARY
DESC: Nuclear Energy Peaceful Applications L1
REPN: UCRL 50008 66 1
SUJO: 3-480-000
TITL: PLOWSHARE PROGRAM, OCTOBER 1, 1965 JULY 15, 1966, VOLUME II, NO. 2
(U), 26 P(U)

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INUM: 09139
AUTH: VIECELLI J.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6603
DESC: Nuclear Weapon Environment Airblast in tunnels cavities
DESC: Nuclear Weapon Environment Airblast reflection diffraction light
refraction
DESC: THEORY
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
REPN: UCRL 14848 T
SUJO: 2-611-000 ; 2-613-600 ; 2-613-800
TITL: AIR BLAST PROTECTION IN TUNNELS (U), 32 P (U)

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INUM: 09140
AUTH: MISKEL J.A.

CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6608
DESC: SUMMARY
DESC: Nuclear Weapon Environment Fallout isotope concentrations
REPN: UCRL 14778
TSHO: UG-VENTED
SUJO: 2-223-100
TITL: RELEASE OF RADIOACTIVITY FROM NUCLEAR CRATERING EXPERIMENTS (U), 12
P (U)

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INUM: 09141
AUTH: STEPHENS D.R. ; LILLEY E.M.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6603
DESC: Solid Mechanics stress-strain
DESC: THEORY TABULAR
DESC: Soil Rock Properties Equation of State Conductivity
REPN: UCRL 14711
SUJO: 6-300-000 ; 9-230-000
TITL: STATIC PV CURVES OF CRACKED AND CONSOLIDATED EARTH MATERIALS TO 40
KILOBARS (U), 67 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 09142
AUTH: PATTERSON D.W.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6503
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress
DESC: THEORY
REPN: UCRL 12327
TSHO: UG-CONTAINED
SUJO: 2-621-000 ; 2-623-000
TITL: NUCLEAR DECOUPLING, FULL AND PARTIAL (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: 09143

AUTH: ROGERS L.A.

CLSS: U

CCDE: SOC

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6505

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity

DESC: Nuclear Weapon Environment Ground Shock impact pressure stress

DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration

REPN: UCRL 12326

SHOT: SALMON ; DRIBBLE

TSHO: UG-CONTAINED

SUJO: 2-621-000 ; 2-622-000 ; 2-623-000

TITL: CALCULATIONS OF THE SHOCK WAVE FROM A NUCLEAR EXPLOSION IN SALT,
PROJECT SALMON (U), 29 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 09145

AUTH: HEARST J.R.

CLSS: U

CCDE: TENSOR

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6608

DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse

DESC: EXPERIMENTAL

REPN: UCRL 12065 PT 2

TSHO: UG-VENTED ; MULTIPLE

SUJO: 2-627-000

TITL: LABORATORY VERIFICATION OF EXPLOSION CALCULATIONS, PART II (U), 19 P
(U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 09147
AUTH: SANDER H.H. ; GREGORY B.L.
CLSS: U
CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)
DATE: 6611
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: SUMMARY
EFFT: NEUTRONS ; NUCLEAR RADIATION
REPN: SC R 66 923
SUJO: 3-221-000 ; 3-223-000
TITL: TRANSIENT ANNEALING IN SEMICONDUCTOR DEVICES FOLLOWING PULSED
NEUTRON IRRADIATION (U), 28 P (U)
TREE: 310

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.endblock
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09159
AUTH: FRAZER J. DU VAL V. ; MORRIS C.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6501
DESC: Nuclear Weapon Test safety
DESC: SUMMARY
REPN: UCRL 12169
SHOT: DRIBBLE
SUJO: 4-856-000
TITL: GAS ANALYTICAL APPARATUS FOR PROJECT DRIBBLE (U), 17 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09164
AUTH: HANSEN S.M. ; TOMAN J.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6505
DESC: Nuclear Energy Peaceful Applications resource production quarrying
L1
REPN: UCRL 12180 REV 2
SUJO: 3-483-500
TITL: AGGREGATE PRODUCTION WITH NUCLEAR EXPLOSIVES (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: 09167
AUTH: RIGDON L.P. ; HARRAR J.E.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6505
DESC: Nuclear Weapon Test safety
DESC: SUMMARY
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport

REPN: UCRL 14123
SHOT: DRIBBLE
TSHO: UG-CONTAINED
SUJO: 4-140-000 ; 4-856-000
TITL: PROCESS STREAM ANALYSIS SYSTEMS FOR THE SCRUBBER SOLUTIONS USED IN
THE PROJECT DRIBBLE VENT GAS TREATMENT PLANT (U), 26 P (U)

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

INUM: 09168
AUTH: HANSEN S.M. ; LOMBARD D.B.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6506
DESC: Nuclear Energy Peaceful Applications resource production quarrying
L1

DESC: SUMMARY
REPN: UCRL 14201
SUJO: 3-483-500
TITL: MINING BY CAVING WITH NUCLEAR EXPLOSIONS (U), 48 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09169
AUTH: NG Y.C.
CLSS: U
CORP: LAWNECE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6506
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1 NEUTRON
ACTIVATION OF GRANITE
REPN: UCRL 14249
SUJO: 2-223-100
TITL: NEUTRON ACTIVATION OF THE TERRESTRIAL ENVIRONMENT AS A RESULT OF
UNDERGROUND NUCLEAR EXPLOSIONS (U), 37 P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 09170
AUTH: PETERSEN A.H.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6603
DESC: Nuclear Weapon Environment fallout transport L1 RAINOUT WASHOUT
DESC: Nuclear Weapon Environment dust moisture injection atmosphere
DESC: THEORY EXPERIMENTAL
REPN: UCRL 14700
SHOT: SEDAN
SUJO: 2-222-400 ; 2-224-200
TITL: WASHOUT OF PARTICULATE MATTER IN LONG-TERM CLOUDS PRODUCED BY
NUCLEAR EXPLOSIONS (U), 31 P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 09171
AUTH: MEYER G.L. ; RAMBO J.
CLSS: U
CORP: LARWENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6610
DESC: PAHUTE MESA ; EXPERIMENTAL
DESC: Environmental Conditions at Nuclear Weapon Test Site geology L1

PAHUTE MESA

REPN: UCRL 50142
SHOT: GREELEY
SUJO: 4-842-000
TITL: LITHOLOGY AND GEOPHYSICAL PROPERTIES OF THE GREELEY MEDIUM (U), 35 P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 09172
AUTH: NEUMAN M.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6607
DESC: Fluid Mechanics hydrodynamics
DESC: THEORY
REPN: UCRL 50105
SUJO: 9-410-000
TITL: TWO-DIMENSIONAL STATISTICAL HYDRODYNAMICS (U), 84 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09173
AUTH: WITHERSPOON P.A.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6607
DESC: Nuclear Energy Peaceful Applications economic considerations L1
DESC: Nuclear Energy Peaceful Applications resource production gas L1
REPN: UCRL 14877
SUJO: 3-483-100 ; 3-488-000
TITL: ECONOMICS OF NUCLEAR EXPLOSIVES IN DEVELOPING UNDERGROUND GAS STORAGE (U), 37 P (U)

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09173

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copy: 1 id: 43225-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09176
AUTH: NG Y.C. ; THOMPSON S.E.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6612
DESC: THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
REPN: UCRL 50163 PT 2
SUJO: 3-312-220
TITL: PREDICTION OF THE MAXIMUM DOSAGE TO MAN FROM THE FALLOUT OF NUCLEAR
DEVICES, PART II ESTIMATION OF THE MAXIMUM DOSE FROM INTERNAL
EMITTERS (U), 23 P (U)

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09176
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copy: 1 id: 43228-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09180
AUTH: HANSEN S.M.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6612
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock craters excavations
DESC: Nuclear Weapon Environment Fallout isotope concentrations
REPN: UCRL 50213
SHOT: SEDAN
SUJO: 2-223-100 ; 2-625-000
TITL: RESULTS FROM SEDAN POSTSHOT DRILLING (U), 37 P (U)

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09180
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09191
AUTH: RABB D.D.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6610
REPN: UCRL 50008 66 2
TITL: PLOWSHARE PROGRAM JULY 16, 1966 OCTOBER 31, 1966, VOLUME II, NO. 3
(U), 32 P(U)

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09191
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copy: 1 id: 43241-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09196
AUTH: FRIED M.J.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6610
DESC: nuclear test detection indirect bomb damage assessment
DESC: THEORY
DESC: Nuclear Warfare Strategic operations scenarios damage assessment L1
REPN: UCRL 50133
SUJO: 3-421-840 ; 4-930-000
TITL: WEAPON EFFECTS DISPLAY SYSTEM (U), 11 P (U)

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09196
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09234
AUTH: HIGGINS G.H.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6506
DESC: Nuclear Energy Peaceful Applications radiation problems L1
REPN: UCRL 14191 REV 1
SUJO: 3-480-400
TITL: ARTIFICIAL AND NATURAL RADIOACTIVITY IN NUCLEAR EXCAVATION (U), 180
P (U)

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09234
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copy: 1 id: 43267-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09238
AUTH: VIECELLI J.
CLSS: U
CCDE: TENSOR
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6612
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE
DESC: Nuclear Weapon Phenomenology cloud shape size

DESC: CODE
REPN: UCID 15048
TSHO: SURFACE
SUJO: 2-224-140 ; 2-612-000
TITL: EXPLOSION OF A 500 MEGATON BOMB AT THE SURFACE OF THE EARTH, A
NUMERICAL CALCULATION OF ATMOSPHERIC EFFECTS (U), 12 P (U)

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copy: 1 id: 43271-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 09240
AUTH: LELEVIER R. ; RAGENT B.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6509
DESC: TUTORIAL
DESC: Fluid Mechanics hydrodynamics
REPN: UCRL 433 REV 1
SUJO: 9-410-000
TITL: LECTURES ON HYDRODYNAMICS AND SHOCK WAVES (U), 61 P (U)

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09240

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

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INUM: 09275
AUTH: HENDERSON R.W.
CLSS: U
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)
DATE: 6609
DESC: Nuclear Weapon Environment radiation decay
DESC: SUMMARY
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport
REPN: LA 3420 MS
TSHO: UG-CONTAINED
SUJO: 2-223-100 ; 2-223-400 ; 4-140-000
TITL: ANALYSIS OF UNDERGROUND WEAPON TEST EFFLUENT SAMPLES (U), 19 P (U)

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copy: 1 id: 43304-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09384
ADNO: 366181
AUTH: MCELROY W.N. ; BARRALL R.C. ; SMILEY D.
CLSS: SRD 1
CONN: AF 29 (601) 6337
CORP: ILLINOIS INSTITUTE OF TECHNOLOGY/RESEARCH INSTITUTE (CHICAGO-IL) ;
AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6509
DESC: test instruments nuclear radiation neutron
DESC: Nuclear Weapon Environment Prompt Neutron time of flight
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources
REPN: AFWL TR 65 34 VOL 4 ; W 6085 4 VOL 4
SHOT: BLUEGILL ; STARFISH
TSHO: HI-ALT
SUJO: 1-120-000 ; 1-150-000 ; 4-241-000 ; 4-342-000
TEMP: 77813
TITL: NEUTRON FLUX SPECTRA DETERMINATION BY FOIL ACTIVATION, VOLUME IV
TORY II-C FLUX SPECTRAL MEASUREMENTS USING AN ADVANCED FOIL
ACTIVATION METHOD (U), 76 P (SRD)

TREE: 920

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copy: 1 id: 43407-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09392
ADNO: 361644
AUTH: POLL R.A. ; JACKSON D.F. ; COTTER L.D. ; VAN LINT V.A.J.
CLSS: SRD 1
CONN: AF 29 (601) 6692
CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CA) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6506
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors
DESC: Nuclear Weapon Environment Initial Gamma
DESC: test instruments test hardware pressure stress
EFFT: X-RAY
REPN: AFWL TR 65 49 SUPPL
SHOT: GUMDROP
SUJO: 1-750-000 ; 3-224-000 ; 4-311-000
TEMP: 77805

TITL: RADIATION EFFECTS ON PRESSURE TRANSDUCER COMPONENTS, FINAL REPORT,
SUPPLEMENT (U), 4 P (SRD)

TREE: 363

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09392

.endblock

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copy: 1 id: 43414-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09405

ADNO: 378059

AUTH: ARNSTEN M.E.

CLSS: SRD 1

CONN: AF 49 (638) 1700

CORP: RAND CORPORATION (SANTA MONICA-CA)

DATE: 6612

DESC: Nuclear Weapon Environment fallout fractionation

DESC: Nuclear Weapon Environment radiation decay

DESC: Nuclear Weapon Environment fallout intensity contours patterns

DESC: Target Analysis civilians population at risk casualties L1

DESC: Nuclear Weapon Effects on animals ionizing radiation

DESC: COMPARISON OF FALLOUT MODELS ; SUMMARY

REPN: RM 5040 PR

SUJO: 2-223-400 ; 2-223-500 ; 2-225-100 ; 3-312-000 ; 3-433-000

TEMP: 77794

TITL: DECADE OF FALLOUT MODELING (U), 88 P (SRD)

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09405

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copy: 1 id: 43426-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09428

ADNO: 844751L

AUTH: ARIENT M. ; PAVLICEK M.

CLSS: U

CORP: ARMY/MATERIEL COMMAND (WASHINGTON-D.C.)

DATE: 6500

DESC: Nuclear Weapon Effects on animals ionizing radiation

REPN: FSTC HT 23 219 68

SUJO: 3-312-000

TITL: MANUAL FOR THE MILITARY DOCTOR, 1. MEDICAL PROTECTION AGAINST ATOMIC
WEAPONS, 2. MEDICAL DEFENSE AGAINST CHEMICAL WARFARE AGENTS,
TRANSLATED FROM REPETITORIUM VOJENSKEHO LEKARE, NASE VOJSKO, PRAGUE,
1965, PP 216-274, CZECHOSLOVAKIA (U), 61 P (U)

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09428

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copy: 1 id: 43444-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09478
ADNO: 616773
AUTH: CLARK B.C. ; JANNI J.F.
CLSŠ: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6505
DESC: EXPERIMENTAL TABULAR
DESC: test instruments biomedical simulants phantoms models
DESC: Cross Sections gamma L1 MANY MATERIALS
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
DESC: Orbital Mechanics
REPN: WL TR 64 134 ; AFWL TR 64 134
SUJO: 3-312-100 ; 4-352-000 ; 9-100-000 ; 9-830-000
TITL: X-RAY ABSORPTION IN DOSE-EQUATED MATERIALS (U), 156 P (U)
TREE: 413

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09478
.endblock

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copy: 1 id: 43500-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09494
ADNO: 614109
AUTH: DUNGAN W.E. ; MILES J.K. ; BELL J.R.
CLSS: U
CONN: AF 29 (601) 6213
CORP: GD/FORT WORTH DIVISION (FORT WORTH-TX) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6503
DESC: Nuclear Weapon Effects materials metals alloys
DESC: Nuclear Weapon Effects materials ceramics optical
DESC: test instruments nuclear radiation neutron
DESC: EXPERIMENTAL
EFFT: NUCLEAR RADIATION ; NEUTRONS
REPN: WL TR 64 160 ; AFWL TR 64 160
SUJO: 3-241-000 ; 3-243-000 ; 4-342-000
TITL: DEVELOPMENT AND APPLICATION OF NUCLEAR MEASUREMENT TECHNIQUES (U),
67 P (U)
TREE: 652

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09494
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copy: 1 id: 43515-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 09502
ADNO: 483132
AUTH: SIMON R.G.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6605
DESC: test instruments nuclear radiation proton alpha heavy particle
REPN: AFSWC TR 66 9
SUJO: 4-343-000
TITL: FIRST ARTICLE ENVIRONMENTAL TESTING OF PORTABLE ALPHA SCINTILLATION
COUNTER EQUIPMENT SET (U), 11 P (U)

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copy: 1 id: 43523-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09523
ADNO: 618073
AUTH: POLL R.A. ; JACKSON D.F. ; COTTER L.D. ; VAN LINT V.A.J.
CLSS: U
CONN: AF 29 (601) 6692
CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA) ; AIR FORCE/WEAPONS
LABORATORY(KIRTLAND AIR FORCE BASE-NM)
DATE: 6506
DESC: Nuclear Weapon Effects electrical mechanical cables wires
DESC: Simulation Facilities Techniques TREE
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects materials ceramics optical
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors
EFFT: TREE
REPN: AFWL TR 65 49 ; WL TR 65 49
SUJO: 3-221-000 ; 3-224-000 ; 3-231-000 ; 3-241-000 ; 4-241-000 ;
4-272-000
TITL: RADIATION EFFECTS ON PRESSURE TRANSDUCER COMPONENTS, FINAL REPORT
(U), 92 P (U)
TREE: 363

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09523

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copy: 1 id: 43538-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 09572
ADNO: 618040
AUTH: JOHNSON P.M. ; LEWIS J.H. ; SELF M.R.
CLSS: U
CONN: AF 29 (601) 6213
CORP: GD/FORT WORTH DIVISION (FORT WORTH-TX) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6507
DESC: Nuclear Weapon Effects materials ceramics optical L1 NON-OPTICAL
PROPS.
DESC: Nuclear Weapon Effects materials plastics resins
DESC: MERLON PLESTAR GRILAN F ABS SUPRAMICA 500 DIALLYL PHTHALATE ;
EXPERIMENTAL
REPN: AFWL TR 65 40
SHOT: MERLIN
SUJO: 3-241-000 ; 3-244-000
TITL: EFFECTS OF NUCLEAR RADIATION AND VARIOUS ENVIRONMENTS ON A NUMBER OF
SELECTED PLASTIC, GLASS-LAMINATE, AND CERAMOPLASTIC MATERIALS (U),
73 P (U)

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09572
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09577
ADNO: 470453
AUTH: EWING D. ; MCELROY W.N.
CLSS: U
CCDE: SAND 1
CONN: AF 29 (601) 6337
CORP: ILLINOIS INSTITUTE OF TECHNOLOGY/RESEARCH INSTITUTE (CHICAGO-IL) ;
AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6508
DESC: CODE
DESC: test instruments nuclear radiation neutron
REPN: TDR W 6085 4 VOL 3 ; AFWL TR 65 34 VOL 3
SUJO: 4-342-000
TITL: NEUTRON FLUX SPECTRA DETERMINATION BY FOIL ACTIVATION, VOLUME III,
SPECTRUM ANALYSIS NEUTRON DETECTOR 1 (SAND 1) COMPUTER CODE (U), 200
P (U)

TREE: 652
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09577
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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 09582
ADNO: 372609L
AUTH: NANCE J.C. ; GOEDEL W.V. ; DAVID C.V.
CLSS: SRD 1
CONN: AF 29 (601) 7036
CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CA) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6605
DESC: Cross Sections x-ray
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport
DESC: EXPERIMENTAL
REPN: AFWL TR 66 26 ; GA 6985
SUJO: 4-140-000 ; 9-840-000
TEMP: 79448
TITL: DEVELOPMENT OF IMPROVED X-RAY SHIELDS (U), 156 P (SRD)
TREE: 413

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copy: 1 id: 43584-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09631
ADNO: 470890
AUTH: MCELROY W.N. ; BARRALL R.C. ; EWING D.
CLSS: U
CONN: AF 29 (601) 6337
CORP: ILLINOIS INSTITUTE OF TECHNOLOGY/RESEARCH INSTITUTE (CHICAGO-IL) ;
AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6508
REPN: AFWL TR 65 34 VOL 1 ; W 6085 4 VOL 1
TITL: NEUTRON FLUX SPECTRA DETERMINATION BY FOIL ACTIVATION, VOLUME I, AN
ADVANCED FOIL ACTIVATION METHOD OF DETERMINING NEUTRON FLUX SPECTRA
FOR RADIATION EFFECTS STUDIES (U), 287 P (U)

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copy: 1 id: 43616-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09652
ADNO: 364552
AUTH: SPILLMAN G.N.
CLSS: SRD 1

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6508
REPN: AFWL TR 65 110
TEMP: 69849
TITL: RADIATION TRANSPORT CALCULATION OF NUCLEAR WEAPON OUTPUT (U), 48 P
(SRD)

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09652
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copy: 1 id: 43634-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09699
ADNO: 377984L
AUTH: PICKENS W.B.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6610
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers
EFFT: TREE ; NEUTRONS
REPN: AFWL TR 66 92
SHOT: EAGLE ; BACKSWING
SUJO: 3-213-000
TEMP: 77817
TITL: TIMM AMPLIFIER NUCLEAR RADIATION TESTS (U), 113 P (SRD)
TREE: 369

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09699
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copy: 1 id: 43671-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09713
ADNO: 801905L
AUTH: STIRNKORB J.R. ; JACKSON T.P. ; CARRAHER T.J.
CLSS: U
CONN: AF 29 (601) 6259
CORP: BENDIX CORPORATION (CINCINNATI-OH)
DATE: 6608
DESC: test instruments nuclear radiation dosimeters radiacs L1 SEMIRAD
REPN: AFWL TR 66 32
SUJO: 4-346-000
TITL: DEVELOPMENT, DESIGN, AND FABRICATION OF SEMIRAD DOSIMETER AND
CHARGER (U), 176P (U)

TREE: 655
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09713
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09778
CLSS: U
CCDE: ZZ
CONN: NOSP 64021 C
CORP: KAMAN AIRCRAFT CORPORATION (COLORADO SPRINGS-CO)
DATE: 6504
DESC: Cross Sections x-ray
DESC: Radiation Transport x-ray
DESC: AIR ; THEORY
REPN: KN 65 116 (R)
SUJO: 9-640-000 ; 9-840-000
TITL: X-RAY TRANSPORT IV, (MONTE CARLO AIR TRANSPORT CODE) (U), 23 P (U)
TREE: 980

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09778
.endblock

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copy: 1 id: 43720-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09996
CLSS: C 3
CORP: NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6504
DESC: Nuclear Weapon Effects animals L1 TTCP
DESC: SUMMARY
SUJO: 3-310-000
TEMP: 67280
TITL: MINUTES OF THE FIFTH MEETING PANEL N-1, SUB-GROUP N, TTCP, HELD AT
U. S. NAVALRADIOLOGICAL DEFENSE LABORATORY, SAN FRANCISCO,
CALIFORNIA.

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09996
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copy: 1 id: 43870-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 11063
CLSS: U
CONN: DA 18 020 ENG 3407
CORP: CONESCO (WATERTOWN-MA)
DATE: 6610
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

external L1 SIMULATION HARZARDS RAD FIELDS
DESC: Cross Sections gamma L1 STRUCTURAL EFFECTS
DESC: THEORY EXPERIMENTAL
REPN: PSDC TR 25
SUJO: 3-312-210 ; 9-830-000
TITL: PRELIMINARY INVESTIGATION OF 'IN-AND-DOWN', AND 'IN-AND-UP'
RADIATION COMPONENTS (U), 62 P., (U)

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11063
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copy: 1 id: 44869-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 11066
ADNO: 474942
AUTH: ZAGORITES H.A.
CLSS: OOU
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6506
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 NUCLEAR RADIATION SIMULATION
DESC: EXPERIMENTAL
SUJO: 3-221-000
TITL: NUCLEAR DOSE EFFECTS ON AN INSULATED GATE THIN FILM TRANSISTOR,
REVIEWS AND LECTURES (U), 19 P, (OUO)
TREE: 310

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11066
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copy: 1 id: 44870-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 11087
ADNO: 621312
AUTH: CROCKER G.R. ; WONG D.T.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO-CA)
DATE: 6508
DESC: TABULAR
REPN: USNRDL TR 888
TITL: GAMMA-EMISSION DATA FOR THE CALCULATION OF EXPOSURE RATES FROM
NUCLEAR DEBRIS,VOLUME 2, INDUCED ACTIVIES (U), 78 P (U)

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11087
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copy: 1 id: 44883-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

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

INUM: 11197
ADNO: 809353L
AUTH: JONES E.
CLSS: U
CCDE: VELPOT
CONN: AF 04 694 814
CORP: LOCKHEED MISSILES AND SPACE CO (SUNNYVALE-CA)
DATE: 6609
DESC: HARTS ; THEORY CODE
DESC: Nuclear Weapon Effects reentry systems RV L1 THERMAL
REPN: 1 41 66 19 ; BSD TR 67 77
SUJO: 3-113-000
TITL: HARDENING TECHNOLOGY STUDIES II, BOLAT, FORTRAN CODE FOR EVALUATION
OF RADIATION ATTENUATION IN TURBULENT BOUNDARY LAYERS (U), 99 P (U)

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11197

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copy: 1 id: 44975-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11702
AUTH: KEIL A.H.
CLSS: C 3
CORP: DAVID TAYLOR MODEL BASIS (WASHINGTON-DC)
DATE: 6609
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L5
DESC: Nuclear Weapon Effects on animals thermal burns heating L5
DESC: TABULAR
DESC: Nuclear Weapon Effects ship systems surface ships L1 BLAST SHOCK
REPN: C 1543
SUJO: 3-122-000 ; 3-312-210 ; 3-313-100
TEMP: 75056
TITL: PROTECTION OF AIRCRAFT CARRIERS AGAINST EFFECTS OF WEAPONS CONCEPTS
AND PRACTICES (U), 86 P, (C)

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11702

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copy: 1 id: 45405-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12361
ADNO: 376374
AUTH: BELL J.E. ; BUTCHER D.T. ; COMPTON P.A. ; KARPOWICH F.W. ; KERRIS
K.G. ; LOVELAND R.D. ; MARSHALL R.W. ; PARKINS C.W. ; SKAVLAND R.L.

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 EMP TREE
DESC: Nuclear Weapon Effects EM Propagation polarity changes Faraday
rotation L5 200 AND 400 MC
DESC: 494L ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic subsystems L1
REPN: BSR 1622
SHOT: TEAK ; ORANGE ;
TSHO: HIGH ALTITUDE
SUJO: 2-321-500 ; 3-132-000 ; 3-210-000 ; 3-221-000
TEMP: A0407
TITL: TRANSIENT RADIATION EFFECTS ANALYSIS, AIR FORCE SYSTEM 494L (U), 172
P., (SRD)

TREE: 393

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13058
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copy: 1 id: 46572-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13441
AUTH: NEFF R.A.
CLSS: CRD 1
CORP: MONSANTO RESEARCH CORP (MIAMISBURG, OHIO)
DATE: 6612
REPN: D68 07591 ; 38502 ; MLM 1377 ; M3679 (47TH ED.)
TEMP: A1266
TITL: PRELIMINARY COMPILATION OF SOME RADIATION PROPERTIES OF VARIOUS
PLUTONIUM-238 AND POLONIUM-210 HEAT SOURCES (U), 78 P., (CRD)

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13441
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copy: 1 id: 46932-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13444
CLSS: C 3
CONN: AT (30 1) 3587
CORP: GENERAL MOTORS, ALLISON DIVISION (INDIANAPOLIS, INDIANA)
DATE: 6608
REPN: D68 07458 ; 38501 ; GMAD 3587 16 ; EDR 4798
TEMP: A1263
TITL: RADIATION ENERGY CONVERSION; FOURTH QUARTERLY PROGRESS REPORT (16
MAY 15 AUGUST 1966) (U), 29 P., (C)

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13444

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copy: 1 id: 46935-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13567
AUTH: KHAMBATA A.J. ; KIELMEYER D.E. ; FLETCHER L.L. ; MARVIN H.
CLSS: C
CONN: AF 04 (695) 676
CORP: UNIVAC, RADIATION EFFECTS LAB. (ST. PAUL, MINN.)
DATE: 6507
DESC: SIMULATION (FLASH X RAY) ; THEORY EXPERIMENTAL BIBLIOGRAPHY SURVEY
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1

TREE

REPN: D69 01664 ; 31167 ; SSD TR 65 72 ; PX 3613
SUJO: 3-213-000
TEMP: A1390
TITL: TRANSIENT RADIATION INSTRUMENTATION EQUIPMENT STUDY (U), 149 P., (S)
TREE: 368

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13567

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copy: 1 id: 47061-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13596
ADNO: 388531L
AUTH: ALLEN R.G.
CLSS: SRD 1
CCDE: PUFF-VTS
CONN: AF 04 (695) 469
CORP: AEROSPACE CORP., SAN BERNARDINO OPERATIONS (SAN BERNARDINO, CA.)
DATE: 6502
DESC: Cross Sections x-ray L1
DESC: TABULAR
DESC: Nuclear Weapon Effects materials metals alloys L1 PB X-RAY ZIREALBOY

LAYERED MATERIALS

REPN: TOR 469 (S5855 80) 5
SUJO: 3-243-000 ; 9-840-000
TEMP: A1426
TITL: THERMO-MECHANICAL EFFECTS IN RADIATION SHIELDS (U), 25 P., (SRD)

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copy: 1 id: 47084-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13602
ADNO: 378863L
AUTH: MCINGVALE P.H. ; FARWER G.
CLSS: S 3
CCDE: NET-1
CORP: ARMY MISSILE COMMAND (REDSTONE ARSENAL, ALA.)
DATE: 6608
DESC: Nuclear Weapon Effects missile systems tactical L1
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 BOOST COMPARATOR CUTOFF CIRCUIT MEMORY CIRCUITS
COMPENSATION CIRCUITS SPIN RATE DETECTION CIRCUITS PIM ELECTRONICS
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 SWITCHES
DESC: SIMULATION (NEUTRON SOURCE) NEUTRON EFFECTS ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIERS
REPN: D69 08259 ; 35680 ; RG TR 66 24
SUJO: 3-112-300 ; 3-213-000 ; 3-219-000 ; 3-229-000
TEMP: A1433
TITL: ANALYSIS OF ARMY MISSILE CONTROL SYSTEM ELECTRONICS FOR PERMANENT
RADIATION EFFECTS (U), 152 P., (S)

TREE: 392

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13602

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copy: 1 id: 47089-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13880
ADNO: 487137
AUTH: ABBOTT H.M.
CLSS: U
CORP: LOCKHEED MISSILES AND SPACE CO. (PALO ALTO, CA.)
DATE: 6608
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects ordnance propellants solid L1 GAMMA RAYS
THERMAL X-RAYS
DESC: Nuclear Weapon Effects ordnance explosives L1 GAMMA RAYS THERMAL
X-RAYS TREE
REPN: LMSC LS 66 17
SUJO: 3-163-000 ; 3-164-000
TITL: RADIATION EFFECTS ON SOLID PROPELLANTS, AN ANNOTATED BIBLIOGRAPHY
(U), 34 P., (U)

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13880

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copy: 1 id: 47306-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13881
ADNO: 801929
AUTH: ABBOTT H.M.
CLSS: U
CORP: LOCKHEED MISSILES AND SPACE CO. (PALO ALTO, CA.)
DATE: 6610
DESC: Nuclear Weapon Effects materials metals alloys L1 SHOCK
DESC: Nuclear Weapon Effects ordnance explosives L1 X-RAYS NEUTRONS GAMMA
 RAYS THERMAL TREE
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects materials plastics resins L1 SHOCK
DESC: Nuclear Weapon Effects ordnance propellants solid L1 SHOCK
DESC: Nuclear Weapon Effects materials ceramics optical L1 SHOCK
REPN: LMSC LS 66 24
SUJO: 3-163-000 ; 3-164-000 ; 3-241-000 ; 3-243-000 ; 3-244-000
TITL: RADIATION EFFECTS ON EXPLOSIVES, AN ANNOTATED BIBLIOGRAPHY AND SHOCK
 WAVE STUDIES (U), 71 P., (U)

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copy: 1 id: 47307-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13910
ADNO: 474256
AUTH: GILMOUR B.A.
CLSS: U
CONN: AF 33 (615) 1124
CORP: BATTELLE MEMORIAL INSTITUTE, RADIATION EFFECTS INFORMATION INSTITUTE
 (COLUMBUS, OHIO)
DATE: 6510
DESC: STEADY STATE AND PULSED RADIATION ; BIBLIOGRAPHY
DESC: Nuclear Weapon Effects ordnance explosives L1
DESC: Nuclear Weapon Effects ordnance propellants solid L1
REPN: REIC MEMO 28
SUJO: 3-163-000 ; 3-164-000
TITL: RADIATION EFFECTS ON PROPELLANTS AND EXPLOSIVES-AN ANNOTATED
 BIBLIOGRAPHY (U), 30 P., (U)

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13910

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copy: 1 id: 47326-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13920
AUTH: BELL J.E.
CLSS: U
CONN: NOW 64 0406 D

CORP: HUGHES AIRCRAFT (FULLERTON, CA.)
DATE: 6501
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EPIC MONOLITHIC GATE CIRCUITS
DESC: Nuclear Weapon Effects missile systems tactical L1
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
LINEAR AMPLIFIERS
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 SI CONTROLLED SWITCHES
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 THIN FILM TRANSISTORS MOSFET-S
SCR-S
DESC: SIMULATION (PULSED REACTOR, LINAC CO60) TREE PERMANENT RADIATION
EFFECTS ; THEORY EXPERIMENTAL
DESC: Simulation Facilities Techniques TREE L5 LINAC CORRELATION STUDIES
REPN: D72 02460 ; 27853 ; FR 65 10 45
SUJO: 3-112-300 ; 3-213-000 ; 3-221-000 ; 3-222-000 ; 3-229-000 ;
4-272-000
SYST: PHOENIX
TEMP: A1457
TITL: RADIATION EFFECTS ON GUIDED MISSILE ELECTRONIC EQUIPMENT IV (U), CA.
50 P., (C)

TREE: 392

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13920

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copy: 1 id: 47334-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13933

AUTH: BELL J.E.

CLSS: U

CONN: NOW 65 0221 D

CORP: HUGHES AIRCRAFT (FULLERTON, CA.)

DATE: 6507

DESC: Nuclear Weapon Effects missile systems tactical L5

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1

AMPLIFIER NEUTRONS

DESC: test instruments nuclear radiation dosimeters radiacs L5

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 CAPACITORS

DESC: SIMULATION (LINAC, REACTOR) TREE ; THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 SCR MOS TRANSISTORS TFR GAMMAS

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit

network L1 COMMUTER CHOPPER CIRCUIT NEUTRONS

REPN: D72 02507 ; 31168 ; FR 65 10 169

SUJO: 3-112-300 ; 3-213-000 ; 3-219-000 ; 3-221-000 ; 3-229-000 ;

4-346-000

TEMP: A1470

TITL: RADIATION EFFECTS ON GUIDED MISSILE ELECTRONIC EQUIPMENT V (U), CA.

100 P., (U)

TREE: 392 ; 369 ; 310

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copy: 1 id: 47347-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14025

ADNO: 386589

AUTH: DAVIS G.J.

CLSS: SRD 1

CONN: AF 04 (694) 824

CORP: AVCO CORP., AVCO MISSILE SYSTEMS DIV. (WILMINGTON, MASS.)

DATE: 6609

DESC: Cross Sections x-ray L1 RV SHIELDS

DESC: RADS ; THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects reentry systems RV L1 X RAY

REPN: AVMSD 0339 66 RR VOL. 7 ; BSD TR 66 372 VOL. 7

SHOT: MIDI MIST

TSHO: UG-CONTAINED

SUJO: 3-113-000 ; 9-840-000

TEMP: A1843

TITL: RADIATION DAMAGE STUDY (RADS) FINAL REPORT, VOL. 7-VEHICLE HARDENING
(U), CA. 300 P., (SRD)

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14025

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copy: 1 id: 47429-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14192

ADNO: 364721

CLSS: S 1

CONN: AF 331 6571 10952

CORP: SPERRY GYROSCOPE CO., INFORMATION AND COMMUNICATIONS DIV. (GREAT
NECK, NY)

DATE: 6508

DESC: Nuclear Weapon Effects electronic subsystems computers memory L1

DESC: TREE SIMULATION (LINAC) ; EXPERIMENTAL SURVEY

DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L9

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5 DIODES

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L5 RESISTORS CAPACITORS
TUBES

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L9

REPN: AFAL TR 65 101 ; HB 9221 0015 4

SUJO: 1-110-000 ; 1-710-000 ; 3-212-000 ; 3-221-000 ; 3-225-000 ;
3-229-000

TEMP: A1810

TITL: DESIGN OF RADIATION TOLERANT COMPUTERS (U), 141 P., (S)

TREE: 420 ; 341

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14192

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copy: 1 id: 47598-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14512

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

CLSS: U

CONN: AT (45 1) 1385

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

DATE: 6508

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1 IN SOIL

DESC: RONGELAP A ; SUMMARY

REPN: UWFL 92

SUJO: 2-223-100

TITL: ATOLL SOIL TYPES IN RELATION TO THE DISTRIBUTION OF FALLOUT
RADIONUCLIDES (U), 37 P., (U)

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14512

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copy: 1 id: 47894-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14513

AUTH: HELD E.E.

CLSS: U

CONN: AT (45 1) 1385

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

DATE: 6505

DESC: Nuclear Weapon Environment Fallout isotope concentrations L5

DESC: Nuclear Weapon Environment radiation decay gamma decay L1

DESC: EXPERIMENTAL

REPN: UWFL 91

SUJO: 2-223-100 ; 2-223-420

TITL: GAMMA DOSE RATES AT RONGELAP ATOLL, 1954-1963 (U), 16 P., (U)

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copy: 1 id: 47895-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14526

AUTH: WELANDER A.D. ; BONHAM K. ; DONALDSON L.R. ; PALUMBO R.F. ; GESSEL
S.P. ; LOWMAN F.G. ; JACKSON W.B.

CLSS: U

CONN: AT (45 1) 1385

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

DATE: 6609

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

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1

DESC: ENIWETOK A BIKINI A ; EXPERIMENTAL

REPN: UWFL 93

SUJO: 2-223-100 ; 2-223-410 ; 3-312-220 ; 3-332-220

TITL: BIKINI-ENIWETOK STUDIES, 1964; PT. 1, ECOLOGICAL OBSERVATIONS (U),
227 P., (U)

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14526

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copy: 1 id: 47908-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14675

ADNO: 370858L

AUTH: FROLICH A.J. ; MALCOLM L. ; MESSENGER G.C. ; PARKER W.D.

CLSS: SRD

CONN: DA 36 039 SC 40738 (E)

CORP: NORTHROP CORP. (NEWBURY PARK, CA.)

DATE: 6603

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1

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

DESC: SIMULATION WARGAMES ; THEORY

EFFT: TREE

REPN: ECOM 90738 11

SUJO: 3-132-220 ; 3-221-000

TEMP: A2662

TITL: EQUIPMENT DESIGN PRACTICES AND TECHNIQUES FOR THE NUCLEAR RADIATION
ENVIRONMENT (U), 145 P., (SRD)

TREE: 420

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14675

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copy: 1 id: 48023-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14715

ADNO: 627930

AUTH: MATHIESEN J.M.

CLSS: U

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

DATE: 6512

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation gamma L1 GE (LI) DETECTORS

REPN: USNRDL TR 949

SUJO: 4-341-000

TITL: GERMANIUM (LITHIUM) DETECTOR FABRICATION (U), 30 P., (U)

TREE: 651

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14715

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14716

AUTH: CORELLI J.C. ; FREDERICKSON A.R. ; WESTHEAD J.W.

CLSS: U

CONN: DA 28 043 AMC 01788 (E)

CORP: RENSSELAER POLYTECHNIC INSTITUTE (TROY, NY)

DATE: 6609

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

DESC: SIMULATION (FLASH X-RAY ELECTRON BEAM) ; EXPERIMENTAL

EFFT: TREE

REPN: ECOM 01788 3

SUJO: 3-220-200

TITL: INVESTIGATION OF TRANSIENT RADIATION DAMAGE IN SEMI-CONDUCTOR
MATERIAL (U), 22 P., (U)

TREE: 200

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14716

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copy: 1 id: 48052-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14717
AUTH: BELL J.E. ; CARR E.A. ; WILBUR R.I. ; WALKER K.R. ; SMITH E.C.
CLSS: U
CONN: N 228 (62479) 69539
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6609
DESC: SIMULATION (LINAC) ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
EFFT: TREE
REPN: FR 66 17 158 ; USNRDL TRC 58
SUJO: 3-221-000
TITL: TRANSISTOR QUALITY STATISTICS IN A PULSED IONIZING RADIATION
ENVIRONMENT T SUB SR (U), 92 P., (U)
TREE: 310 ; 610

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

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INUM: 14719
AUTH: CHANG W.W. ; STEELE E.J. ; RAYMOND J.P. ; LAWRENCE E.G. ; COSS J.R.
CLSS: U
CONN: AF 30 (602) 3589
CORP: NORTHROP NORTRONICS (NEWBURY PARK, CA.)
DATE: 6609
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
DESC: SIMULATION (FLASH X-RAY LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
TRANSISTOR MOS TRANSISTOR/FLIP-FLOPS
EFFT: TREE
REPN: ARD 66 45 R ; RADC TR 66 433
SUJO: 3-221-000 ; 3-222-000
TITL: TRANSIENT RADIATION VULNERABILITY OF MONOLITHIC BINARY CIRCUITS (U),
152 P., (U)
TREE: 320 ; 341

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copy: 1 id: 48055-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14739
CLSS: U
CORP: ARMY MISSILE TEST AND EVALUATION DIRECTORATE (WHITE SANDS MISSILE
RANGE, NM)

DATE: 6603
DESC: SUMMARY
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1
DESC: Simulation Facilities Techniques TREE L1
SUJO: 4-241-000 ; 4-272-000
TITL: CHARACTERISTICS OF NUCLEAR EFFECTS BRANCH RADIATION FACILITIES AND
OPERATIONAL PROCEDURES (U), 36 P., (U)
TREE: 642

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14739
.endblock
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copy: 1 id: 48073-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14761
AUTH: CROWE J.W. ; SAUR A.J.
CLSS: U
CORP: ATOMICS INTERNATIONAL (CANOGA PARK, CA.)
DATE: 6510
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

EFFT: TREE
SUJO: 3-221-000
TITL: COMPENSATING JUNCTION TECHNIQUES FOR HARDENING SEMICONDUCTOR
CIRCUITS TO IONIZING RADIATION (U), 19 P., (U)

TREE: 310 ; 430
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14761
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copy: 1 id: 48092-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14762
CLSS: U
CONN: DA 49 146 XZ 257
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6601
DESC: test instruments nuclear radiation beta electron beams L1
DESC: test instruments nuclear radiation proton alpha heavy particle L1
DESC: test instruments nuclear radiation gamma L1
DESC: SURVEY
REPN: AFRRRI CR66 1 ; EG+G S 253 R
SUJO: 4-341-000 ; 4-343-000 ; 4-344-000
TITL: FEASIBILITY STUDY FOR A MOBILE LABORATORY TO EVALUATE ENVIRONMENTAL
RADIATION CONTAMINATION (U), 142 P., (U)

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14762

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copy: 1 id: 48093-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14763

AUTH: PROFIO A.E. ; WEST G.B. ; HOUGHTON G.K. TRIMBLE G.D.

CLSS: U

CCDE: GAPLSNSN/GAM II

CONN: DA 49 146 XZ 337

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 6601

DESC: EXPERIMENTAL

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1

REPN: AFRRI CR66 2 ; GA 6465

SUJO: 4-241-000

TITL: FAST NEUTRON SPECTRUM OF THE AFRRI TRIGA REACTOR (U), 112 P., (U)

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14763

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copy: 1 id: 48094-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14764

AUTH: SULLIVAN D.C.

CLSS: U

CCDE: PREDICT 1

CONN: AF 29 (601) 6489

CORP: IBM CORP., FEDERAL SYSTEMS DIV. (OWEGO, NY)

DATE: 6500

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

DESC: SIMULATION (FLASH X-RAY) ; THEORY EXPERIMENTAL

EFFT: TREE

SUJO: 3-221-000

TITL: TRANSIENT RADIATION-INDUCED RESPONSE OF MOS FIELD EFFECT TRANSISTORS
(U), 7 P., (U)

TREE: 325

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14764

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copy: 1 id: 48095-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14765
AUTH: FRANKOVSKY F.A.
CLSS: U
CONN: DA 28 043 AMC 00212 (E)
CORP: IBM CORP., FEDERAL SYSTEMS DIV. (OWEGO, NY)
DATE: 6607
DESC: SIMULATION (LINAC, FLASH X RAY) SCORRE ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 MICA MYLAR TANTALUM
OXIDE POLYSTYRENE GLASS + CERAMIC CAPACITORS MEMORY PLANES
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
EFFT: TREE
REPN: 66 521 5
SUJO: 3-225-000 ; 3-229-000
TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON
ELECTRONIC PARTS AND MATERIALS (SCORRE) (U), 52 P., (U)
TREE: 343 ; 385 ; 370

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

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INUM: 14766
AUTH: KRUEGER A.F. ; STRAHAN V.H.
CLSS: U
CONN: DA 28 043 AMC 01467 (E)
CORP: AUTONETICS (ANAHEIM, CA.)
DATE: 6604
REPN: C6 1221/3111
TITL: RADIATION EFFECTS ON THIN-FILM MICROELECTRONICS (U), 23 P., (U)

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cat1: cat2: home: STACKS current: STACKS
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INUM: 14767
AUTH: AUXIER J.A. ; CHEKA J.S. ; HAYWOOD F.F. ; JONES T.D. ; THORNGATE
J.H.

CLSS: U

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)

DATE: 6600

DESC: SUMMARY

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1

SHOT: HIROSHIMA ; NAGASAKI
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-710-000
TITL: FREE-FIELD RADIATION-DOSE DISTRIBUTIONS FROM THE HIROSHIMA AND
NAGASAKI BOMBINGS (U), 6 P., (U)

TREE: 910 ; 920

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INUM: 14809

AUTH: TERRY F.D. ; KINDRED R.L. ; ANDERSON S.D.

CLSS: U

CONN: AT (10 1) 205

CORP: PHILLIPS PETROLEUM CO.

DATE: 6511

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: test instruments test hardware pressure stress L1

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

EFFT: TREE

REPN: IDO 17103

SUJO: 3-231-000 ; 4-311-000

TITL: TRANSIENT NUCLEAR RADIATION EFFECTS ON TRANSDUCER DEVICES AND
ELECTRICAL CABLES (U), 68 P., (U)

TREE: 363 ; 390

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copy: 1 id: 48125-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14810

AUTH: VAN LINT V.A.J. ; OVERMYER R.F. ; NICHOLS D.K.

CLSS: U

CCDE: ZZ (IONIZED GAS IN PARALLEL PLATE GEOMETRY)

CONN: DA 36 039 SC 89196

CORP: GENERAL ATOMIC (SAN DIEGO, CA.)

DATE: 6507

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

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

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLES

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

DESC: SIMULATION (REACTOR NEUTRON GENERATOR LINAC) ; THEORY EXPERIMENTAL

EFFT: TREE
REPN: GA 6534
SUJO: 3-220-200 ; 3-221-000 ; 3-229-000 ; 3-231-000
TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONIC PARTS; FINAL REPORT (U),
78 P., (U)
TREE: 390 ; 370 ; 310 ; 385

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copy: 1 id: 48126-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14832
AUTH: ZATZICK M.R. ; KATZENSTEIN H.S. ; FRIEDERICHS J. ; HIGA R. ;
UNDERWOOD J. ; MITCHELSON D.L.

CLSS: U

CONN: N 228 (62497) 68124

CORP: SOLID STATE RADIATIONS, INC. (LOS ANGELES, CA.)

DATE: 6512

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation gamma L1

REPN: SSR 1F2704 65

SUJO: 4-341-000

TITL: FLUOR-PHOTODIODE GAMMA RAY DOSIMETER; FINAL REPORT (U), CA. 40 P.,
(U)

TREE: 651

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copy: 1 id: 48143-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14833
AUTH: RAYMOND J. ; STEELE E. ; CHANG W.W.
CLSS: U
CORP: NORTHROP VENTURA (NEWBURY PARK, CA.)

DATE: 6502

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

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-221-000

TITL: RADIATION EFFECTS IN METAL-OXIDE-SEMICONDUCTOR TRANSISTORS (U), 7
P., (U)

TREE: 325

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14838
AUTH: LICHTENSTEIN R.M. ; WILLARD H.J. ; CORELLI J.C.
CLSS: U
CONN: DA 36 039 AMC 02165 (E)
CORP: RENSSELAER POLYTECHNIC INSTITUTE (TROY, NY)
DATE: 6500
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SILICON
EFFT: TREE
SUJO: 3-220-200
TITL: INVESTIGATION OF TRANSIENT RADIATION DAMAGE IN SEMICONDUCTOR
MATERIALS (U), 15 P., (U)
TREE: 200

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copy: 1 id: 48149-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14840
AUTH: BELARDI R.J. ; HONNOLD V.R.
CLSS: U
CONN: DA 28 043 AMC 00418 (E)
CORP: HUGHES AIRCRAFT CO., MICROELECTRONICS DIV. (NEWPORT BEACH, CA.)
DATE: 6506
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTOR
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SILICONE
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-220-200 ; 3-221-000
TITL: SEMICONDUCTOR DESIGN EFFECTS ON RADIATION RESISTANCE (U), 47 P., (U)
TREE: 430 ; 200

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copy: 1 id: 48151-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14841

AUTH: GALLAGHER B.D. ; HONNOLD V.R.
CLSS: U
CONN: DA 28 043 AMC 00418 (E)
CORP: HUGHES AIRCRAFT CO. (NEWPORT BEACH, CA.)
DATE: 6511
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-221-000
TITL: SEMICONDUCTOR DESIGN EFFECTS ON RADIATION RESISTANCE (U), 18 P., (U)
TREE: 430 ; 310

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copy: 1 id: 48152-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14842
AUTH: GALLAGHER B.D. ; HONNOLD V.R.
CLSS: U
CONN: DA 28 043 AMC 00418 (E)
CORP: HUGHES AIRCRAFT CO. (NEWPORT BEACH, CA.)
DATE: 6512
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SILICONE
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
SUJO: 3-220-200 ; 3-221-000
TITL: EFFECT OF TRANSISTOR DESIGN PARAMETERS ON RADIATION RESPONSE
(SURFACE EFFECTS) (U), 33 P., (U)
TREE: 430 ; 200

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copy: 1 id: 48153-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14881
AUTH: CURTSINGER B.E. ; ROBINSON A.R.
CLSS: U
CONN: AF 29 (601) 6213
CORP: GENERAL DYNAMICS (FT. WORTH, TX.)
DATE: 6502
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: TREE
REPN: WL TR 64 146 ; FZK 207
SUJO: 3-221-000
TITL: FIRST TEST ON RADIATION EXPERIMENTATION FOR THE Q-FACTOR TECHNIQUE
(U), 54 P., (U)

TREE: 310

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copy: 1 id: 48170-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14883

AUTH: STACY I.F. ; FEYDER F.J.

CLSS: U

CONN: DA 49 186 AMC 89 (D)

CORP: RCA ELECTRONIC COMPONENTS AND DEVICES (HARRISON, NJ)

DATE: 6503

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

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: HDL 89 1

SUJO: 3-229-000

TITL: RESPONSE OF LOW-POWER NUUVISTORS TO PULSED NUCLEAR RADIATION (U), 69
P., (U)

TREE: 305

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copy: 1 id: 48172-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14885

ADNO: 637426

AUTH: FRENCH R.L. ; PRICE J.H. ; TOMPKINS K.W.

CLSS: U

CONN: DA 23 072 AMC 332 (X)

CORP: RADIATION RESEARCH ASSOCIATES, INC. (FT. WORTH, TX.)

DATE: 6512

DESC: Cross Sections gamma L1

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1

REPN: RRA T55

SHOT: SMALL BOY

TSHO: SURFACE

SUJO: 2-223-200 ; 9-830-000

TITL: ANALYSIS OF THE PERFORMANCE OF ENCLOSURE SHIELDS IN A REAL FALLOUT
FIELD (U), 109 P., (U)

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copy: 1 id: 48173-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14893

ADNO: 650195

AUTH: WILSON D.K. ; MITCHELL J.P. ; CUTHBERT J.D. ; BLAIR R.R.

CLSS: U

CONN: AF 19 (628) 4157

CORP: BELL TELEPHONE LABS., INC.

DATE: 6612

DESC: SIMULATION (ACCELERATOR PULSE REACTOR CO 60) ; THEORY EXPERIMENTAL

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 CAPACITORS

EFFT: TREE

REPN: AVCRL 67 0068

SUJO: 3-221-000 ; 3-229-000

TITL: EFFECTS OF RADIATION ON SEMICONDUCTOR MATERIALS AND DEVICES (U), 256
P., (U)

TREE: 310 ; 370

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copy: 1 id: 48181-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14897

ADNO: 643601

AUTH: CHU-HSIAN W.

CLSS: U

CORP: AIR FORCE FOREIGN TECHNOLOGY DIV. (WRIGHT-PATTERSON AFB, OHIO)

DATE: 6609

DESC: THEORY EXPERIMENTAL SURVEY

DESC: test instruments nuclear radiation L1

LA: TAIWAN

REPN: FTD TT 65 552

SUJO: 4-340-000

TITL: NUCLEAR DETECTORS AND THEIR USES (U), 761 P., (U)

TREE: 650

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copy: 1 id: 48185-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14899
ADNO: 642582
AUTH: CLOSSER W.H. ; THURSTON M.O. ; SWARTZ J.M.
CLSS: U
CONN: DA 18 035 AMC 101 (A)
CORP: ARMY NUCLEAR DEFENSE LAB. (EDGEWOOD ARSENAL, MD.)
DATE: 6611
DESC: test instruments nuclear radiation neutron L1
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 NEUTRON DOSIMETER
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: NDL TR 83 III
SUJO: 3-221-000 ; 3-224-000 ; 4-342-000
TITL: SILICON DIODE FAST NEUTRON DOSIMETER. PHASE III. REVERSE-RECOVERY
LIFETIME AS A FUNCTION OF TEMPERATURE (U), 33 P., (U)
TREE: 310 ; 652

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copy: 1 id: 48187-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14903
AUTH: MIKESELL R.E.
CLSS: U
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)
DATE: 6611
DESC: Simulation Facilities Techniques TREE L5 LINAC
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1 TRIGA
REPN: GA 1695 (REV. 5)
SUJO: 4-241-000 ; 4-272-000
TITL: TRIGA, EXPERIMENTAL AND IRRADIATION FACILITIES FOR RESEARCH AND
DEVELOPMENT (U), 63 P., (U)
TREE: 642

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copy: 1 id: 48191-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14904
AUTH: TAULBEE C.D. ; POBLENZ F.W.
CLSS: U
CONN: AF 29 (601) 7197
CORP: BENDIX CORP., RESEARCH LABS. DIV. (SOUTHFIELD, MI)
DATE: 6609
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 NEUTRON DOSIMETER
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (PULSE REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: 3644
SUJO: 3-221-000 ; 3-224-000
TITL: EXPLORATORY DEVELOPMENT OF A RADIATION DAMAGE EXPOSURE MEASUREMENT
TECHNIQUE (U), 34 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: 14906
ADNO: 641559
AUTH: VEGA E.P. ; KILMINSTER D.T. ; MCNEILLY J.H.
CLSS: U
CORP: ARMY NUCLEAR DEFENSE LAB. (EDGEWOOD ARSENAL, MD.)
DATE: 6610
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1
DESC: SIMULATION (PULSE REACTOR) ; EXPERIMENTAL
DESC: test instruments nuclear radiation neutron L1
EFFT: TREE
REPN: NDL TM 31
SUJO: 3-221-000 ; 3-224-000 ; 4-342-000
TITL: EVALUATION OF THE RESPONSE OF SILICON DIODE DOSIMETERS TO FAST
NEUTRONS (U), 44 P., (U)
TREE: 655 ; 364

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14906

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copy: 1 id: 48194-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14909
AUTH: FRANKOVSKY F.A.
CLSS: U
CONN: DA 28 043 AMC 02374 (E)
CORP: IBM CORP., FEDERAL SYSTEMS DIV. (OWEGO, NY)
DATE: 6612
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS
DESC: SIMULATION (FLASH X RAY) ; THEORY EXPERIMENTAL
EFFT: TREE
REPN: IBM 66 521 17 ; ECOM 02374 1
SUJO: 3-229-000
TITL: RADIATION EFFECTS ON ELECTRONIC PARTS AND MATERIALS (U), 32 P., (U)
TREE: 370

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copy: 1 id: 48197-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14910
AUTH: LONG D.M.
CLSS: U
CONN: DA 28 043 AMC 01520 (E)
CORP: MARTIN CO. (BALTIMORE, MD.)
DATE: 6610
DESC: SIMULATION (FLASH X RAY) ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EFFT: TREE
REPN: MND 3264 4 ; ECOM 01520 4
SUJO: 3-222-000
TITL: RADIATION EFFECTS ON INSULATED GATE FIELD EFFECT (MOS) INTEGRATED
CIRCUITS (U), 90 P., (U)
TREE: 320

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14911
AUTH: HABING D.H.
CLSS: U
CORP: SANDIA CORP.
DATE: 6507
DESC: Directed Energy Weapons Lasers Applications Effects testing L1
DESC: EXPERIMENTAL SUMMARY
EFFT: TREE

REPN: SC R 65 940
SUJO: 3-616-800
TITL: USE OF LASERS TO SIMULATE RADIATION-INDUCED TRANSIENTS IN
SEMICONDUCTOR DEVICES AND CIRCUITS (U), 12 P., (U)

TREE: 642

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copy: 1 id: 48199-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14918

ADNO: 639572

AUTH: CLARK F.H. ; BETZ N.A.

CLSS: U

CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)

DATE: 6609

DESC: Nuclear Weapon Effects on animals ionizing radiation L5 BIOLOGICAL
DOSE FACTORS SAFETY INSIDE NEUTRON SHIELD

DESC: Cross Sections neutron L1

DESC: BREN ; THEORY EXPERIMENTAL

REPN: ORNL 4009

SUJO: 3-312-000 ; 9-820-000

TITL: RESULTS OF THE ANALYSIS BY MONTE CARLO OF FAST-NEUTRON SHIELDING
PROPERTIES OF COMPOUND CUBICAL AND SPHERICAL SHIELDS (U), 55 P., (U)

TREE: 412

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copy: 1 id: 48206-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14921

AUTH: PERKINS C.W. ; MARSHALL R.W. ; LIEBSCHUTZ A.M.

CLSS: U

CONN: DA 28 043 AMC 01313 (E)

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

DATE: 6611

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: SIMULATION (PULSE REACTOR) ; THEORY EXPERIMENTAL

EFFT: TREE

REPN: FR 66 17 278 ; ECOM 01313 F

SUJO: 3-222-000

TITL: RADIATION EFFECTS ON (MONOLITHIC) MICROELECTRONIC CIRCUITS (U), 81
P., (U)

TREE: 320

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copy: 1 id: 48209-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14924
ADNO: 645535
AUTH: COLWELL J.F. ; DEMICHELE D.W. ; OVERMYER R.F.
CLSS: U
CONN: DA 28 043 AMC 01412 (E)
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)
DATE: 6612
DESC: SIMULATION (LINAC) ; THEORY
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS DIELECTRICS
EFFT: TREE
REPN: GA 7474 ; ECOM 01412 F
SUJO: 3-229-000
TITL: RADIATION EFFECTS ON DIELECTRIC MATERIALS (U), 56 P., (U)
TREE: 385

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copy: 1 id: 48211-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14925
AUTH: PUTZ J.L. ; CALME E.E. ; FRIES R.C.
CLSS: U
CONN: DA 28 043 AMC 00475 (E)
CORP: GENERAL ELECTRIC CO., RECEIVING TUBE DEPT. (OWENSBORO, KY)
DATE: 6610
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 VACUUM TUBES
DESC: SIMULATION (FLASH X-RAY PULSE REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: ECOM 00475 F
SUJO: 3-229-000
TITL: TRANSIENT RADIATION EFFECTS ON MICROWAVE ELECTRON TUBES (U), 169 P.,
(U)
TREE: 305

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14925
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copy: 1 id: 48212-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14927
AUTH: KRUEGER A.F. ; STRAHAN V.H.
CLSS: U
CONN: DA 28 043 AMC 01467 (E)
CORP: NORTH AMERICAN AVIATION, INC., AUTONETICS DIV. (ANAHEIM, CA.)
DATE: 6611
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (PULSE REACTOR LINAC) ; EXPERIMENTAL
EFFT: TREE
REPN: C6 1889/501 ; ECOM 01467 4
SUJO: 3-222-000
TITL: RADIATION EFFECTS ON THIN-FILM MICROELECTRONICS (U), 28 P., (U)
TREE: 320

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copy: 1 id: 48214-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14931
AUTH: HOLEMAN J.L.
CLSS: U
CCDE: ECAP
CORP: ARMY MISSILE COMMAND (REDSTONE ARSENAL, ALA.)
DATE: 6612
DESC: SIMULATION (PULSE REACTOR) ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5
DESC: Nuclear Weapon Effects missile systems ABM electronics L1
EFFT: TREE
REPN: RG TR 66 28
SUJO: 3-112-230 ; 3-213-000 ; 3-221-000
TITL: RADIATION EFFECTS PREDICTION FOR A PULSE WIDTH MODULATED SERVO
AMPLIFIER (U), 121 P., (U)
TREE: 369

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copy: 1 id: 48218-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14932
AUTH: LONG D.M.
CLSS: U
CONN: DA 28 043 AMC 01520 (E)

CORP: MARTIN CO. (BALTIMORE, MD.)
DATE: 6612
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (PULSE REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: MND 3264 5 ; ECOM 01520 5
SUJO: 3-221-000 ; 3-222-000
TITL: RADIATION EFFECTS ON INSULATED GATE FIELD EFFECT (MOS) INTEGRATED
CIRCUITS (U), 55 P., (U)
TREE: 325

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14932
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copy: 1 id: 48219-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14936
AUTH: CURTIS O.L. ; BASS R.F. ; GERMANO C.A.
CLSS: U
CONN: DA 49 186 AMC 235 (X)
CORP: NORTHROP CORP., NORTRONICS (NEWBURY PARK, CA.)
DATE: 6611
DESC: SIMULATION (PULSE REACTOR) ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1
EFFT: TREE
REPN: 235 2 ; ARD 66 56 R
SUJO: 3-220-200
TITL: RADIATION EFFECTS IN SILICON AND GERMANIUM (U), 150 P., (U)
TREE: 200

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copy: 1 id: 48223-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14939
ADNO: 635583
AUTH: BINDER D. ; KUEHNE B.M. ; STEELE D.A.
CLSS: U
CONN: N 228 (62479) 68466
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6604
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (LINAC) SIMULATION (CO 60) ; EXPERIMENTAL
EFFT: TREE

REPN: FR 66 17 186 ; NRD L TRC 44
SUJO: 3-222-000
TITL: SURFACE EFFECTS OF RADIATION ON MICROELECTRONIC DEVICES; PT. 2 (U),
72 P., (U)

TREE: 320

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copy: 1 id: 48226-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14946

AUTH: SANDIFER C.W. ; CRONK R.E.

CLSS: U

CORP: EG+G, INC. (SANTA BARBARA, CA.)

DATE: 6503

DESC: SIMULATION (LINAC) ; EXPERIMENTAL

DESC: test instruments nuclear radiation gamma L1

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices

sensors detectors L1 GAMMA DETECTORS

EFFT: TREE

REPN: EGG 1183 2024 ; S 45 TN

SUJO: 3-224-000 ; 4-341-000

TITL: RESPONSE OF SELECTED DIAGNOSTIC DETECTORS TO A 50-PICOSECOND GAMMA
PULSE (U), 19 P., (U)

TREE: 364 ; 651

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copy: 1 id: 48233-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14947

AUTH: MCGUIRE R.L. ; WALSH G.

CLSS: U

CORP: EG+G, INC. (SANTA BARBARA, CA.)

DATE: 6510

DESC: test instruments visible L5

DESC: SIMULATION (LINAC) ; EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical

devices sensors IR detectors L5

EFFT: TREE

REPN: S 302 R ; EGG 1183 2052

SUJO: 3-133-000 ; 4-382-000

TITL: TRANSIENT RADIATION EFFECTS IN ELECTRONIC MATERIALS AEC R+D
QUARTERLY REPORT (U), 7 P., (U)

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copy: 1 id: 48234-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent

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INUM: 14948
AUTH: SMITH W.A. JR. ; GEORGE W.D. ; WALSH G.E.
CLSS: U
CORP: EG+G, INC. (SANTA BARBARA, CA.)
DATE: 6505
DESC: SIMULATION (LINAC) ; EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L5
DESC: test instruments visible L5
EFFT: TREE
REPN: EGG 1183 2030 ; S 281 R
SUJO: 3-133-000 ; 4-382-000
TITL: TRANSIENT RADIATION EFFECTS, OPTICAL AEC-R+D QUARTERLY PROGRESS
REPORT (U), 11 P., (U)

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copy: 1 id: 48235-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14949
AUTH: MCGUIRE R. ; WALSH G. ; GEORGE W.L.
CLSS: U
CORP: EG+G, INC. (SANTA BARBARA, CA.)
DATE: 6508
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L5
DESC: SIMULATION (LINAC) ; EXPERIMENTAL SUMMARY
DESC: test instruments visible L5
EFFT: TREE
REPN: EGG 1183 2039 ; S 291 R
SUJO: 3-133-000 ; 4-382-000
TITL: TRANSIENT RADIATION EFFECTS, OPTICAL AEC-R+D QUARTERLY PROGRESS
REPORT (U), 9 P., (U)

TREE: 361

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copy: 1 id: 48236-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14951
AUTH: SWARTZ J.M. ; CHASE B.H. ; THURSTON O.M.
CLSS: U
CONN: DA 18 035 AMC 101 (A)
CORP: ARMY NUCLEAR DEFENSE LAB. (EDGEWOOD ARSENAL, MD.)
DATE: 6610
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODES
DESC: test instruments nuclear radiation neutron L1
DESC: SIMULATION (REACTOR) ; THEORY EXPERIMENTAL
EFFT: NEUTRON ; TREE
REPN: NDL TR 83 I
SUJO: 3-221-000 ; 4-342-000
TITL: SILICON DIODE FAST NEUTRON DOSIMETER; PHASE U, EVALUATION OF
RESPONSE VERSUS STARTING MATERIAL (U), 45 P., (U)
TREE: 652 ; 364

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copy: 1 id: 48238-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14952
AUTH: BOCZAR P.G. ; BOYD G.E. ; CORDWELL W.A. ; FRANKOVSKY F.A.
CLSS: U
CONN: DA 28 043 AMC 00212 (E)
CORP: IBM CORP., FEDERAL SYSTEMS DIV. (OWEGO, NY)
DATE: 6610
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
MEMORY CORES
DESC: SCORRE SIMULATION (E BEAM PULSED REACTOR) ; THEORY EXPERIMENTAL
EFFT: TREE
REPN: ECOM 11212 F ; 66 512 13
SUJO: 3-225-000 ; 3-229-000
TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON
ELECTRONIC PARTS AND MATERIALS (SCORRE) (U), 86 P., (U)
TREE: 370 ; 343

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copy: 1 id: 48239-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14953
AUTH: RAYMOND J.P. ; JOHNSON R.E.
CLSS: U

CONN: DA 28 043 AMC 00423 (E)
CORP: NORTRONICS (NEWBURY PARK, CA.)
DATE: 6610
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (LINAC) ; THEORY EXPERIMENTAL CODE
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MODELING
EFFT: TREE
REPN: ARD 66 49 R ; ECOM 00423 5
SUJO: 3-221-000 ; 3-222-000
TITL: STUDY FOR GENERALIZED MODEL FOR SEMICONDUCTOR RADIATION RESPONSE
PREDICTION (U), 167 P., (U)

TREE: 250

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copy: 1 id: 48240-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14953-133
AUTH: RAYMOND J.P. ; JOHNSON R.E.
CLSS: U
CORP: NORTHROP CORP., NORTRONICS (NEWBURY PARK, CA.)
DATE: 6610
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
SUJO: 3-221-000
SYMJ: STUDY FOR GENERALIZED MODEL FOR SEMICONDUCTOR RADIATION RESPONSE
PREDICTION (U), 167 P., (U)
TITL: DETAILED LUMPED-MODEL ANALYSIS OF TRANSISTOR IONIZING RADIATION
EFFECTS (U), 15 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14954
AUTH: HONNOLD V.R. ; THOMAS G.D. ; MAZENKO J.J.
CLSS: U
CONN: DA 28 043 AMC 01541 (E)
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6610
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (PULSE REACTOR) ; THEORY EXPERIMENTAL

REPN: FR 66 17 267 ; ECOM 01541 F
SUJO: 3-221-000
TITL: EFFECT OF TRANSISTOR DESIGN PARAMETERS ON RADIATION RESPONSE (POWER
TRANSISTORS) (U), 73 P., (U)

TREE: 430

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

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INUM: 14955

AUTH: OVERMYER R.F.

CLSS: U

CONN: DA 28 043 AMC 01412 (E)

CORP: GENERAL ATOMIC (SAN DIEGO, CA.)

DATE: 6610

DESC: SIMULATION (LINAC) ; EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 INSULATORS CAPACITORS

EFFT: TREE

SUJO: 3-229-000

TITL: RADIATION EFFECTS ON DIELECTRIC MATERIALS (U), 20 P., (U)

TREE: 385 ; 370

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

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INUM: 14956

ADNO: 486668

AUTH: DEMICHELE D.W. ; NICHOLS D.K. ; VAN LINT V.A.J.

CLSS: U

CONN: DA 28 043 AMC 01412 (E)

CORP: GENERAL ATOMIC (SAN DIEGO, CA.)

DATE: 6607

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 CAPACITORS INSULATORS

DESC: SIMULATION (E BEAM) ; THEORY

EFFT: TREE

REPN: ECOM 01412 3

SUJO: 3-229-000

TITL: RADIATION EFFECTS ON DIELECTRIC MATERIALS (U), 50 P., (U)

TREE: 385 ; 370

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

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INUM: 14961
CLSS: U
CCDE: PUFF
CORP: KAMAN NUCLEAR (COLORADO SPRINGS, CO.)
DATE: 6601
DESC: Radiation Transport x-ray L5
DESC: equation of state heat of vaporization thermal conductivity opacity
L5
DESC: Nuclear Weapon Effects materials not systems associated L1
DESC: THEORY
DESC: Cross Sections x-ray L1 AL BE
EFFT: X-RAY
REPN: KN 684 66 28
SUJO: 3-240-000 ; 9-640-000 ; 9-710-000 ; 9-840-000
TEMP: 49246 C.2
TITL: X-RAY EFFECTS-A SUMMARY OF RECENT RESULTS AND LIMITATIONS TO THE
PRESENT KNOWLEDGE (U), CA. 100 P., (U) TECHNICAL APPENDICES

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copy: 1 id: 48247-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14962
AUTH: BRUECKNER K.A.
CLSS: SRD 1
CONN: AF 04 (695) 669
CORP: AEROSPACE CORP. (SAN BERNARDINO, CA.)
DATE: 6608
DESC: Nuclear Weapon Effects structures aboveground models plates slabs L1
DESC: THEORY
EFFT: IEMP
EMPF: 391
REPN: TR 699 (S6855 40) 7
SUJO: 3-259-300
TEMP: 51451
TITL: PRODUCTION OF ELECTRIC FIELDS BY IONIZING RADIATION (U), 17 P.,
(SRD)

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copy: 1 id: 48248-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15013
ADNO: 482357
AUTH: HILL J.R.
CLSS: U
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, NM)
DATE: 6603
DESC: SIMULATION (LINAC) ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects missile systems tactical L1
EFFT: TREE
REPN: AFWL TR 66 25
SUJO: 3-112-300 ; 3-221-000
SYST: SABRE
TITL: PARAMETERS OF BIPOLAR, FIELD EFFECT, AND UNIUNCTION TRANSISTOR
LARGE SIGNAL MODELS FOR USE IN TRANSIENT RADIATION EFFECTS ANALYSIS
(U), 80 P., (U)
TREE: 250

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copy: 1 id: 48285-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15019
ADNO: 619387
AUTH: STANLEY A.G.
CLSS: U
CONN: AF 19 (628) 5617
CORP: MASSACHUSETTS INSTITUTE OF TECHNOLOGY, LINCOLN LAB.
DATE: 6507
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (X RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects space systems spacecraft or satellites
electronics L1
REPN: MIT TN 1965 20 ; ESD TDR 65 310
SUJO: 3-114-300 ; 3-221-000
TITL: ANALYSIS OF RADIATION EFFECTS IN TELEMETRY CIRCUITS (U), 34 P., (U)
TREE: 393

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copy: 1 id: 48288-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15020
AUTH: CALME E.E. ; JORDAN J.D. ; KOEPP-BAKER N.B. ; MAGNUSON R.A.
CLSS: U
CONN: DA 28 043 AMC 00472 (E)
CORP: GENERAL ELECTRIC, TUBE DEPT. (OWENSBORO, KY)
DATE: 6500
DESC: SIMULATION (PULSE REACTOR) ; THEORY
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L5 TUBES
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems (L1)
EFFT: TREE
REPN: REPT. NO. 1
SUJO: 3-132-220 ; 3-229-000 ; 4-170-000
TITL: TRANSIENT RADIATION EFFECTS ON MICROWAVE ELECTRON TUBES (U), 72 P.,
(U)
TREE: 305
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15020
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copy: 1 id: 48289-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15025
AUTH: KLEINER C.T. ; KINOSHITA G. ; JOHNSON E.D.
CLSS: U
CORP: AUTONETICS (ANAHEIM, CA.)
DATE: 6506
DESC: SIMULATION (FLASH X-RAY) ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EFFT: TREE
SUJO: 3-222-000
TITL: RADIATION-INDUCED REGENERATION THROUGH THE P-N JUNCTION ISOLATION IN
MONOLITHIC I/C'S (U), 8 P., (U)
TREE: 320
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15025
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copy: 1 id: 48294-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15038
ADNO: 630835
AUTH: HONNOLD V.R. ; THOMAS G.D. ; MAZENKO J.J.
CLSS: U
CONN: DA 28 043 AMC 01541 (E)

CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6603
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1 POWER TRANSISTORS
DESC: THEORY
REPN: ECOM 01541 1 ; FR 66 17 105
SUJO: 4-170-000
TITL: EFFECT OF TRANSISTOR DESIGN PARAMETERS ON RADIATION RESPONSE (POWER
TRANSISTORS) (U), 14 P., (U)
TREE: 310 ; 430

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copy: 1 id: 48304-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15040
AUTH: SAYEG J.A.
CLSS: U
CONN: DA 49 146 XZ 226
CORP: EG+G, INC.
DATE: 6511
DESC: test instruments nuclear radiation neutron L1
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L5
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation gamma L1
REPN: AFRRRI CR 65 6 ; EGG S 260 R
SUJO: 4-241-000 ; 4-341-000 ; 4-342-000
TITL: NEUTRON AND GAMMA DOSIMETRY MEASUREMENTS AT THE AFRRRA-DASA TRIGA
REACTOR (U), 185 P., (U)
TREE: 642 ; 655

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copy: 1 id: 48306-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15052
AUTH: OVERMEYER R.F. ; VAN LINT V.A.J. ; NICHOLS D.K.
CLSS: U
CONN: DA 28 043 AMC 01412 (E)
CORP: GENERAL DYNAMICS CORP., GENERAL ATOMIC DIV. (SAN DIEGO, CA.)
DATE: 6603
DESC: SIMULATION (LINAC REACTOR) ; EXPERIMENTAL
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 CAPACITORS

EFFT: TREE
REPN: GA 6877 ; ECOM 01412 2
SUJO: 3-220-200 ; 3-229-000
TITL: RADIATION EFFECTS ON DIELECTRIC MATERIALS; QUARTERLY REPORT (U), 65
P., (U)

TREE: 385 ; 370

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copy: 1 id: 48317-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15060

AUTH: FRANKOVSKY F.A.

CLSS: U

CCDE: PREDICT

CONN: DA 36 039 AMC 00161 (E)

CORP: IBM CORP. (OWEGO, NY)

DATE: 6502

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 CAPACITORS

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

TIMER CIRCUIT

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

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 TRIGISTORS SCR-S TRANSISTORS

EFFT: TREE

REPN: IBM 65 521 08

SUJO: 3-221-000 ; 3-222-000 ; 3-229-000

TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON
ELECTRONIC PARTS AND MATERIALS (SCORRE) (U), 72 P., (U)

TREE: 310 ; 370 ; 367

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copy: 1 id: 48323-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15061

AUTH: PARKER W.D. ; BERGER A.G. ; GLEASON J.P.

CLSS: U

CONN: AF 04 (695) 677

CORP: NORTHROP CORP. (NEWBURY PARK, CA.)

DATE: 6506

DESC: test instruments electronic vulnerability TREE L1

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1

DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
DIGITAL COMPUTER
DESC: SIMULATION (REACTOR FLASH X-RAY) ; EXPERIMENTAL SURVEY
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L5 NUVISTORS VACUUM TUBES
EFFT: TREE
REPN: SSD TR 65 48 ; NVR 3880
SUJO: 3-212-000 ; 3-225-000 ; 3-229-000 ; 3-231-000 ; 4-372-000
TITL: TRANSIENT RADIATION INSTRUMENTATION EQUIPMENT STUDY, FINAL REPORT
(U), 212 P., (U)

TREE: 341

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15061

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copy: 1 id: 48324-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15062

AUTH: ZATZICK M.R. ; KATZENSTEIN H.S. ; BERNESCUT R. ; UNDERWOOD J.

CLSS: U

CORP: SOLID STATE RADIATIONS, INC. (LOS ANGELES, CA.)

DATE: 6501

DESC: test instruments nuclear radiation dosimeters radiacs L1

DESC: SIMULATION (PULSED REACTOR, LINAC, NEUTRON GENERATOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electrical mechanical cables wires L5 CABLES

EFFT: NEUTRON ; GAMMA

REPN: SSR 1F 2285 65

SUJO: 3-231-000 ; 4-346-000

TITL: DOSIMETRY SYSTEM FOR HIGH-INTENSITY GAMMA-RAY AND NEUTRON TRANSIENTS
PERFORMED UNDER PURCHASE ORDER NO. N228(62479)64870 (U), CA. 50 P.,

(U)

TREE: 655

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15062

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copy: 1 id: 48325-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15064

AUTH: PERKINS C.W. ; MITCHELL E.P. ; MARSHALL R.W. ; LIEBSCHUTZ A.M.

CLSS: U

CONN: DA 28 043 AMC 01313 (E)

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

DATE: 6603

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DTL RTL RCTL LOGIC

DESC: SIMULATION (LINAC PULSED REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: FR 65 10 151 ; ECOM 01313 2
SUJO: 3-222-000
TITL: RADIATION EFFECTS ON (MONOLITHIC) MICROELECTRONIC CIRCUITS (U), 33
P., (U)

TREE: 320

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copy: 1 id: 48327-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15067

ADNO: 464309L

AUTH: BOWMAN W.G. ; CALDWELL R.S. ; SVETICH G.W.

CLSS: U

CONN: AF (30) 602 3585

CORP: BOEING CO., AERO-SPACE DIV. (SEATTLE, WASH.)

DATE: 6505

DESC: Nuclear Weapon Effects electronic pieceparts L1

DESC: EXPERIMENTAL SURVEY

EFFT: TREE

REPN: RADC TR 65 147

SUJO: 3-220-000

TITL: SURVEY OF TRANSIENT RADIATION-EFFECT STUDIES ON MICROELECTRONICS
(U), 128 P., (U)

TREE: 320

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15067

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copy: 1 id: 48330-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15069

ADNO: 889765

AUTH: LOWREY A.R. ; FRIDDELL K.D.

CLSS: U

CCDE: ZZ (RADIATION ENERGY ABSORPTION RATE)

CONN: AF 29 (601) 6425

CORP: BOEING CO. (SEATTLE, WASH.)

DATE: 6500

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 PIN DETECTORS SI GE

DESC: SIMULATION (CO 60 FLASH X-RAY LINAC) ; EXPERIMENTAL

EFFT: X-RAY ; GAMMA

REPN: D2 84071 1

SUJO: 3-224-000

TITL: RESPONSE OF P-I-N DETECTORS TO VARIOUS NUCLEAR RADIATION
ENVIRONMENTS (U), 50 P., (U)

TREE: 364

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15069

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copy: 1 id: 48331-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15112

AUTH: BUCHANAN W.A.

CLSS: U

CONN: DA 36 039 AMC 01476 (E)

CORP: ARMY ELECTRONICS COMMAND (PHILADELPHIA, PA.)

DATE: 6502

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

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-229-000

TITL: ELECTRON TUBES RADIATION RESISTANT PILOT LINE PRODUCTION; SEVENTH
QUARTERLY PROGRESS REPORT (U), 89 P., (U)

TREE: 305 ; 610

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15112

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copy: 1 id: 48363-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15116

AUTH: BRUECKNER K.A.

CLSS: SRD 1

CONN: AF 04 (695) 669

CORP: AEROSPACE CORP. (SAN BERNARDINO, CA.)

DATE: 6610

DESC: THEORY

DESC: Radiation Transport x-ray L1

DESC: Nuclear Weapon Effects reentry systems RV structures rings L1

DESC: Cross Sections x-ray L1 BERYLLIUM OXYGEN MAGNESIUM ALUMINUM IRON

EFFT: X-RAY

REPN: BSD TR 66 329 ; TR 669 (\$6855 40) 6

SUJO: 3-113-130 ; 9-640-000 ; 9-840-000

TEMP: 51501

TITL: CLASSIFIED TITLE, CA. 50 P., (SRD)

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copy: 1 id: 48364-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 15131
AUTH: GERMANO C.A. ; MALCOLM L. ; MESSENGER G.C.
CLSS: U
CONN: DA 36 039 SC 9078 (E)
CORP: NORTHROP CORP., VENTURA DIV. (NEWBURY PARK, CA.)
DATE: 6506
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects electronic subsystems L1
EFFT: TREE
REPN: ECOM 90738 10 ; NVR 3633
SUJO: 3-200-000
TITL: EQUIPMENT DESIGN PRACTICES AND TECHNIQUES FOR THE NUCLEAR RADIATION
ENVIRONMENT; INDEXED BIBLIOGRAPHY TO THE NUCLEAR RADIATION EFFECTS
LITERATURE (U), 295 P., (U)
TREE: 150 ; 420

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15131
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copy: 1 id: 48377-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15140
AUTH: BELL J.E. ; WALKER K.R. ; SMITH E.C. ; WILBUR R.I.
CLSS: U
CONN: N 228 (62479) 68702
CORP: HUGHES AIRCRAFT CO., GROUND SYSTEMS GROUP (FULLERTON, CA.)
DATE: 6603
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
EFFT: TREE
REPN: FR 65 10 269 ; NRDL TRC 14
SUJO: 3-221-000
TITL: TRANSISTOR QUALITY STATISTICS IN A PULSED IONIZING RADIATION
ENVIRONMENT-TRIANGLE I SUB CBO (U), 88 P., (U)

TREE: 310
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15140
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copy: 1 id: 48384-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15143
AUTH: HUMPHERYS K.C.
CLSS: U

CONN: DA 49 146 XZ 226
CORP: EG+G, INC.
DATE: 6511
DESC: test instruments nuclear radiation gamma L1
DESC: test instruments nuclear radiation neutron L1
DESC: test instruments nuclear radiation dosimeters radiacs L1
DESC: CONTAINS 10 PAPERS CONCERNING BIOLOGICAL DOSIMETRY PROBABLY FOR A
TRAINING COURSE ; EXPERIMENTAL
EFFT: X-RAY ; NEUTRON ; GAMMA
REPN: AFRRI CR 65 4 ; EGG S 305 MN
SUJO: 4-341-000 ; 4-342-000 ; 4-346-000
TITL: MANUAL OF RADIATION DOSIMETRY EXPERIMENTS (U), 220 P., (U)
TREE: 655

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copy: 1 id: 48387-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15152
AUTH: LANDIS D.
CLSS: U
CORP: LOCKHEED PALO ALTO RESEARCH LABS. (PALO ALTO, CA.)
DATE: 6600
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 DIODES
EFFT: TREE
REPN: LMSC 61 7527 6703
SUJO: 3-221-000 ; 3-222-000 ; 3-229-000
TITL: CATASTROPHIC FAILURES IN SEMICONDUCTOR DEVICES EXPOSED TO PULSED
RADIATION (U), 15 P., (U)
TREE: 310 ; 320

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15152
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copy: 1 id: 48394-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15156
AUTH: BELL J.E. ; BUTCHER D.T.
CLSS: U
CONN: AF 04 (694) 565
CORP: HUGHES AIRCRAFT CO., RADIATION EFFECTS RESEARCH DEPT. (FULLERTON,
CA.)

DATE: 6503
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L5
PRE PREAMPLIFIER
DESC: THEORY
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1
EFFT: TREE
REPN: FR 65 10 46
SUJO: 3-213-000 ; 3-221-000 ; 4-170-000
TITL: HYBRID COMPUTATION OF TRANSIENT RADIATION EFFECTS ON ELECTRONICS
(U), 43 P., (U)

TREE: 369

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copy: 1 id: 48398-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15157
AUTH: BASS R.F. ; CURTIS O.L.
CLSS: U
CORP: NORTHROP CORP., VENTURA DIV. (NEWBURY PARK, CA.)
DATE: 6502
DESC: test instruments nuclear radiation dosimeters radiacs L1
DESC: EXPERIMENTAL
EFFT: X-RAY
SUJO: 4-346-000
TITL: USE OF BULK SEMICONDUCTOR MATERIAL FOR ABSORBED-DOSE MEASUREMENTS
(U), 6 P., (U)

TREE: 655

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15157

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copy: 1 id: 48399-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15158
ADNO: 623722
AUTH: ZATZICK M.R. ; ZIMMERMAN E.L.
CLSS: U
CONN: DA 18 108 405 CML 1012
CORP: ARMY NUCLEAR DEFENSE LAB. (EDGEWOOD ARSENAL, MD.)
DATE: 6511
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation neutron L1
REPN: NDL TR 54

SUJO: 4-342-000
TITL: NEUTRON DETECTION AND SPECTROSCOPY WITH SEMICONDUCTOR DETECTORS (U),
161 P., (U)

TREE: 652

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copy: 1 id: 48400-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15159

AUTH: RAYMOND J.P. ; CHANG W.W.

CLSS: U

CONN: DA 28 043 AMC 00423 (E)

CORP: NORTRONICS APPLIED RESEARCH DEPT. (NEWBURY PARK, CA.)

DATE: 6509

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 DIODES TRANSISTORS

EFFT: TREE

REPN: NVR 3920 ; ECOM 00423 2

SUJO: 3-221-000 ; 3-222-000

TITL: STUDY FOR GENERALIZED MODEL FOR SEMICONDUCTOR RADIATION RESPONSE
PREDICTION (U), 66 P., (U)

TREE: 250

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copy: 1 id: 48401-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15166

AUTH: RAYMOND J.P. ; CHANG W.W. ; JOHNSON R.E.

CLSS: U

CONN: DA 28 043 AMC 00423

CORP: NORTHROP/NORTRONICS APPLIED RESEARCH DEPT. (NEWBURY PARK, CA.)

DATE: 6603

DESC: THEORY

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 TRANSISTORS

EFFT: TREE

REPN: NARD 65 18R

SUJO: 3-221-000

TITL: GENERALIZED MODEL FOR SEMICONDUCTOR RADIATION RESPONSE PREDICTION
(U), 81 P., (U)

TREE: 250

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copy: 1 id: 48405-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15167
AUTH: FRANK M.
CLSS: U
CONN: AF 29 (601) 7110
CORP: BENDIX CORP., RESEARCH LABS. DIV. (SOUTHFIELD, MI)
DATE: 6602
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

EFFT: TREE
REPN: BENDIX RLD 3311
SUJO: 3-221-000 ; 4-170-000
TITL: DEVELOPMENT OF A NON-DESTRUCTIVE RADIATION EFFECTS PREDICTION
TECHNIQUE (U), 19 P., (U)
TREE: 649

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15167
.endblock

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copy: 1 id: 48406-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15168
AUTH: PERKINS C.W. ; MARSHALL R.W. ; LIEBSCHUTZ A.M.
CLSS: U
CONN: DA 28 043 AMC 01313 (E)
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6608
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS

EFFT: TREE
REPN: FR 66 17 148 ; ECOM 01313 4
SUJO: 3-222-000 ; 3-229-000
TITL: RADIATION EFFECTS ON (MONOLITHIC) MICROELECTRONIC CIRCUITS; FOURTH
QUARTERLY REPORT (U), 23 P., (U)
TREE: 320

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15168
.endblock
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copy: 1 id: 48407-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15169
AUTH: HONNOLD V.R. ; THOMAS G.D. ; MAZENKO J.J.
CLSS: U
CONN: DA 28 043 AMC 01541 (E)
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6604
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 POWER TRANSISTORS
EFFT: TREE
REPN: FR 66 17 106
SUJO: 3-221-000
TITL: EFFECT OF TRANSISTOR DESIGN PARAMETERS ON RADIATION RESPONSE (POWER
TRANSISTORS) SECOND QUARTERLY REPORT (U), 24 P., (U)
TREE: 430 ; 310

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copy: 1 id: 48408-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15199
AUTH: SMITH E.A. ; SCHALLAU J.W. ; ANDREW A.
CLSS: U
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)
DATE: 6606
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
EFFT: TREE
REPN: LMSC 6 76 66 8
SUJO: 3-221-000
TITL: OBSERVATIONS OF NONLINEAR TRANSIENT RADIATION EFFECTS IN
SEMICONDUCTORS (U), 15 P., (U)
TREE: 310

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15199
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copy: 1 id: 48427-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15243
ADNO: 463397

AUTH: GERSTEIN B. ; FUEYO A.
CLSS: U
CONN: DA 36 039 AMC 00002 (E)
CORP: ADMIRAL CORP. (CHICAGO, ILL.)
DATE: 6501
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 PRECISION QUARTZ CRYSTAL
UNITS
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: G 3988 F2 9
SUJO: 3-229-000
TITL: EFFECTS OF NUCLEAR RADIATION ON FREQUENCY CONTROL DEVICES (U), CA.
50 P., (U)
TREE: 367

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15243

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copy: 1 id: 48478-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15289
AUTH: FREIBERG R.A.
CLSS: U
CORP: JOHNS HOPKINS UNIVERSITY (SILVER SPRING, MD.)
DATE: 6500
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 THIN FILM FET
EFFT: BETA
SUJO: 3-221-000
TITL: RADIATION EFFECTS ON THE THIN-FILM FIELD-EFFECT DEVICE (U), CA. 40
P., (U)
TREE: 310

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copy: 1 id: 48521-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15292
AUTH: LONG D.M. ; WRIGLEY C.Y.
CLSS: U
CONN: DA 28 043 AMC 01520 (E)
CORP: MARTIN CO. (BALTIMORE, MD.)
DATE: 6604
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L5 TRANSISTORS

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L5
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

REPN: ECOM 01520 2

SUJO: 3-221-000 ; 3-222-000 ; 4-170-000

TITL: RADIATION EFFECTS ON INSULATED GATE FIELD EFFECT (MOS) INTEGRATED
CIRCUITS (U), 42 P., (U)

TREE: 325

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15292

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copy: 1 id: 48522-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15304

AUTH: CORELLI J.C. ; FREDERICKSON A.R.

CLSS: U

CONN: DA 28 043 AMC 01788 (E)

CORP: RENSSELAER POLYTECHNIC INSTITUTE (TROY, N.Y.)

DATE: 6605

DESC: SIMULATION (LINAC) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts materials basic

mechanisms L1 P + IN DOPED SI

EFFT: BETA

REPN: ECOM 01788 1

SUJO: 3-220-200

TITL: INVESTIGATION OF TRANSIENT RADIATION DAMAGE IN SEMICONDUCTOR
MATERIALS (U), 7 P., (U)

TREE: 200

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15304

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copy: 1 id: 48532-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15305

AUTH: GALLAGHER B.D. ; HONNOLD V.R. ; MAZENKO J.J.

CLSS: U

CCDE: ANOVA

CONN: DA 28 043 AMC 00418 (E)

CORP: HUGHES AIRCRAFT CO. (NEWPORT BEACH, CA.)

DATE: 6604

DESC: SIMULATION (LINAC) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts materials basic

mechanisms L1 SI BARS

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 TRANSISTORS

EFFT: X-RAY
REPN: ECOM 00418 F
SUJO: 3-220-200 ; 3-221-000
TITL: EFFECT OF TRANSISTOR DESIGN PARAMETERS ON RADIATION RESPONSE
(SURFACE EFFECTS) (U), 56 P., (U)

TREE: 310 ; 430

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15305

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copy: 1 id: 48533-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15306

AUTH: FRANK M.

CLSS: U

CONN: AF 29 (601) 7110

CORP: BENDIX CORP., RESEARCH LABS. DIV. (SOUTHFIELD, MI)

DATE: 6605

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

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: RLD 3433

SUJO: 3-221-000

TITL: DEVELOPMENT OF A NON-DESTRUCTIVE RADIATION EFFECTS PREDICTION
TECHNIQUE (U), 70 P., (U)

TREE: 649

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15306

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copy: 1 id: 48534-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15307

AUTH: PERKINS C.W. ; MARSHALL R.W. ; MITCHELL E.P. ; LIEBSCHUTZ A.M.

CLSS: U

CONN: DA 28 043 AMC 01313 (E)

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

DATE: 6605

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: FR 66 17 57 ; ECOM 01313 3

SUJO: 3-222-000

TITL: RADIATION EFFECTS ON (MONOLITHIC) MICROELECTRONIC CIRCUITS; THIRD
QUARTERLY REPORT (U), 49 P., (U)

TREE: 320

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15307

.endblock

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copy: 1 id: 48535-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15308

ADNO: 481968

AUTH: STANLEY J.M.

CLSS: U

CORP: ARMY ELECTRONICS COMMAND (FORT MONMOUTH, N.J.)

DATE: 6603

DESC: EXPERIMENTAL

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

EFFT: TREE

REPN: ECOM 2689

SUJO: 3-229-000

TITL: RADIATION-RESISTANT SINGLE-SIDEBAND QUARTZ CRYSTAL UNITS (U), 17 P.,
(U)

TREE: 367

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15308

.endblock

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copy: 1 id: 48536-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15324

ADNO: 800271

AUTH: SPRADLIN B.

CLSS: U

CONN: AF 33 (615) 1124

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

DATE: 6607

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

DESC: SURVEY

EFFT: TREE

REPN: REIC MEMO 31

SUJO: 3-229-000

TITL: NUCLEAR RADIATION EFFECTS ON RESISTIVE ELEMENTS (U), 25 P., (U)

TREE: 380

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15324

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copy: 1 id: 48548-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

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

INUM: 15419
ADNO: 656563
AUTH: MOSKALEV A.D.
CLSS: U
CORP: AIR FORCE FOREIGN TECH. DIV. (WRIGHT-PATTERSON AFB, OHIO)
DATE: 6604
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5
DESC: SUMMARY
DESC: Nuclear Warfare Theater operations scenarios mobility L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
EFFT: OTHER ; FALLOUT
LA: USSR
REPN: FTD MT 66 150
SUJO: 2-225-100 ; 3-312-200 ; 3-411-420
TITL: RADIATION SITUATION AND ACTION OF TROOPS (U), 81 P., (U)

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15419

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copy: 1 id: 48622-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15438
AUTH: LANDIS D.
CLSS: U
CCDE: ZZ (TRANSIENT RADIATION EFFECT ON CAPACITORS)
CORP: LOCKHEED MISSILES AND SPACE CO., AEROSPACE SCIENCES LAB. (PALO ALTO,
CA.)
DATE: 6503
DESC: TABULAR
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CERAMIC MICA MYLAR SOLID
TA PAPER OIL FILLED PAPER CAPACITORS
EFFT: TREE
REPN: B 05 65 2
SUJO: 3-229-000
TITL: TABLES OF CAPACITOR DISCHARGE IN TRANSIENT GAMMA RADIATION
ENVIRONMENTS (U), CA. 150 P., (U)

TREE: 370

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15438

.endblock

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copy: 1 id: 48637-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15439

AUTH: VAN LINT V.A.J. ; OVERMYER R. ; WILLIS D.E.
CLSS: U
CONN: DA 36 039 SC 89196
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)
DATE: 6502
DESC: SIMULATION (LINAC REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 MICA CERAMIC TANTALUM
CAPACITORS
EFFT: TREE
REPN: GA 5898
SUJO: 3-229-000
TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONIC PARTS (U), 49 P., (U)
TREE: 370

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15439

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copy: 1 id: 48638-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15500
AUTH: BINDER D. ; KUEHNE B.M. ; WILBUR R.I. ; BUTCHER D.T.
CLSS: U
CONN: N 228 (62479) 68466
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6511
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (LINAC, CO 60) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 PLANAR TRANSISTORS CD S TFT CD SE
TFT
EFFT: TREE
REPN: FR 65 10 243 ; NRDL TRC 19
SUJO: 3-221-000 ; 3-222-000
TITL: SURFACE EFFECTS OF RADIATION ON MICROELECTRONIC DEVICES (U), 66 P.,
(U)
TREE: 320

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copy: 1 id: 48687-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15501
ADNO: 630701
AUTH: CORELLI J.C. ; PREDRICKSON A.R. ; WESTHEAD J.W. ; LICKTENSTEIN R.M.
; WILLARD H.J. JR.
CLSS: U

CONN: DA 36 039 AMC 02165 (E)
CORP: RENSSELAER POLYTECHNIC INSTITUTE (TROY, N.Y.)
DATE: 6603
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 PURE B P DOPED SI
EFFT: BETA
SUJO: 3-220-200
TITL: INVESTIGATION OF TRANSIENT RADIATION DAMAGE IN SEMICONDUCTOR
MATERIALS (U), 38 P., (U)
TREE: 200

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15501
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copy: 1 id: 48688-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15502
AUTH: FRANKOVSKY F.A.
CLSS: U
CONN: DA 28 043 AMC 00212 (E)
CORP: IBM CORP., FEDERAL SYSTEMS DIV. (OWEGO, N.Y.)
DATE: 6605
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 TA MICA CERAMIC
POLYSTYRENE MYLAR + GLASS CAPACITORS
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
SATURN + GEMINI MEMORY PLANES FERRITE MEMORY CORES
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: TREE
REPN: 66 521 1 ; ECOM 00212 4
SUJO: 3-225-000 ; 3-229-000
TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON
ELECTRONIC PARTS AND MATERIALS (SCORRE) (U), 44 P., (U)
TREE: 343 ; 370

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15502
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copy: 1 id: 48689-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15503
AUTH: CORELLI J.C. ; FREDERICKSON A.R. ; WESTHEAD J.W.
CLSS: U
CONN: DA 28 043 AMC 01788 (E)
CORP: RENSSELAER POLYTECHNIC INSTITUTE (TROY, N.Y.)
DATE: 6606
DESC: SIMULATION (LINAC) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 B + P DOPED SI
EFFT: BETA
REPN: ECOM 01788 2
SUJO: 3-220-200
TITL: INVESTIGATION OF TRANSIENT RADIATION DAMAGE IN SEMICONDUCTOR
MATERIALS; SECOND QUARTERLY PROGRESS REPORT (U), 15 P., (U)
TREE: 200

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copy: 1 id: 48690-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15504
AUTH: PEUCKERT K.
CLSS: U
CORP: NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (WASH D.C.)
DATE: 6512

DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 STILBENE NE102 NE150 NE211 NE213 NE314 ANTHRACENE
DESC: SIMULATION ; EXPERIMENTAL
EFFT: TREE
REPN: NASA TT F 9810
SUJO: 3-220-200
TITL: INVESTIGATIONS ON THE SHORT-TIME DECAY OF SOME ORGANIC
SCINTILLATORS, ON EXCITATION WITH GAMMA RADIATION, PROTONS OR ALPHA
PARTICLES (U), 8 P., (U)

TREE: 651
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copy: 1 id: 48691-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15506
ADNO: 631742
AUTH: KRAMER G. ; CLOSSER W.H. ; MENGALI O.J.
CLSS: U
CONN: DA 18 108 405 CML 1031 ; DA 18 035 AMC 298 (A)
CORP: ARMY NUCLEAR DEFENSE LAB. (EDGEWOOD ARSENAL, MD.)
DATE: 6604
DESC: test instruments nuclear radiation neutron L1
DESC: test instruments nuclear radiation dosimeters radiacs L1
DESC: SI SIMULATION (REACTOR) ; EXPERIMENTAL
REPN: NDL TR 55
SUJO: 4-342-000 ; 4-346-000
TITL: STUDY OF SEMICONDUCTOR FAST-NEUTRON DOSIMETER FOR RANGE 0-50,000

RADS (U), 108 P., (U)

TREE: 652 ; 655

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copy: 1 id: 48693-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15562

AUTH: LONG D.M. ; FLESCHER H.L.

CLSS: U

CONN: DA 28 043 AMC 01520 (E)

CORP: MARTIN CO. (BALTIMORE, MD.)

DATE: 6607

DESC: SIMULATION (FLASH X-RAY, LINAC) ; EXPERIMENTAL

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

EFFT: TREE

REPN: MND 3264 3 ; ECOM 01520 3

SUJO: 3-221-000

TITL: RADIATION EFFECTS ON INSULATED GATE FIELD EFFECT (MOS) INTEGRATED
CIRCUITS (U), 27 P., (U)

TREE: 325

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copy: 1 id: 48740-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15612

ADNO: 800723

AUTH: BUDKA A.J. ; BRAND W.J. ; DOLCE T.J.

CLSS: U

CCDE: GRATIS

CORP: ARMY BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)

DATE: 6607

DESC: TABULAR

DESC: Radiation Transport gamma L1 EARTH

EFFT: GAMMA

REPN: BRL R 1329

SUJO: 9-620-000

TITL: SECONDARY GAMMA RAY TRANSMISSION THROUGH NEVADA TEST SITE SOIL (U),
155 P., (U)

TREE: 411

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copy: 1 id: 48782-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15613
ADNO: 641725
AUTH: COMPTON D.M.J.
CLSS: U
CONN: AF 19 (628) 2926
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)
DATE: 6604
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 RUBY GA AS KIL KBR SI TEMPERATURE EFFECTS TO 1080
DEGREES K
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: BETA
REPN: GA 7140 ; AFCRL 66 427
SUJO: 3-220-200
TITL: OPTICAL STUDIES OF RADIATION DAMAGE PROCESSES (U), 127 P., (U)
TREE: 200

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copy: 1 id: 48783-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15614
ADNO: 807205L
AUTH: PHILLIPS A.R. ; TAPP C.M.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, N.M.)
DATE: 6505
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL TABULAR
EFFT: TREE
REPN: SC RR 65 136
SUJO: 3-221-000
TITL: RADIATION EVALUATION OF THE G657046 TRANSISTOR (U), CA. 50 P., (U)
TREE: 310

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copy: 1 id: 48784-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15623

ADNO: 801026L
AUTH: MCELROY W.N. ; BERG S.
CLSS: U
CCDE: SAND II ; SLTAPE ; CSTAPE ; ACNI
CONN: AF 29(601) 7196
CORP: ATOMICS INTERNATIONAL (CANOGA PARK, CA.)
DATE: 6610
DESC: test instruments nuclear radiation neutron L1
DESC: THEORY
DESC: Cross Sections neutron L1
SUJO: 4-342-000 ; 9-820-000
TITL: ADVANCED FOIL ACTIVATION METHOD OF NEUTRON DOSIMETRY (U), 20 P., (U)
TREE: 652

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copy: 1 id: 48790-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15728
AUTH: FINNELL J.T. JR.
CLSS: U
CORP: AVCO CORP., RAD. DIV. (WILMINGTON, MA.)
DATE: 6600
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
EFFT: TREE
SUJO: 3-221-000
TITL: TECHNIQUES OF PREDICTING TRANSISTOR BURN-OUT FROM HIGH DOSE IONIZING
RADIATION PULSES (U), 7 P., (U)
TREE: 310 ; 250

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copy: 1 id: 48872-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15729
AUTH: FINNELL J.T. JR.
CLSS: U
CORP: AVCO CORP., RAD DIV. (WILMINGTON, MA.)
DATE: 6600
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS RESISTORS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS DIODES
DESC: THEORY

EFFT: TREE
SUJO: 3-221-000 ; 3-229-000
TITL: RADIATION EFFECTS IN ELECTRONIC COMPONENTS AND THEIR SIMULATION IN
ANALOG COMPUTERS FOR PREDICTION OF EFFECTS ON CIRCUITS (U), 35 P.,
(U)

TREE: 310 ; 250 ; 370

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copy: 1 id: 48873-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15731P.067

AUTH: LEFKOWITZ I.

CLSS: U

CONN: DA 30 069 507 ORD 1866

CORP: GULTON INDUSTRIES, INC. (METUCHEN, NJ)

DATE: 6511

DESC: Nuclear Weapon Effects materials ceramics optical L1

DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1

DESC: SIMULATION (REACTOR, CO 60) PZT CERAMIC BATI O3 TYPE MATERIALS ;

EXPERIMENTAL

EFFT: TREE

SUJO: 3-225-000 ; 3-241-000

TITL: RADIATION EFFECTS ON FERROELECTRIC MATERIALS; SUMMARY REPORT (U), 20
P., (U)

TREE: 343

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15731P.067

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copy: 1 id: 48876-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15731P.129

AUTH: HESTER D.L. ; GLOWER D.D. ; OVERTON L.J.

CLSS: U

CORP: SANDIA CORP. (ALBUQUERQUE, NM)

DATE: 6511

DESC: test instruments nuclear radiation gamma L1

DESC: Nuclear Weapon Effects materials ceramics optical L1

DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1

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

EFFT: TREE

REPN: SC R 64 197

SUJO: 3-225-000 ; 3-241-000 ; 4-341-000

TITL: USE OF FERROELECTRICS FOR GAMMA-RAY DOSIMETRY (U), 10 P., (U)

TREE: 651

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copy: 1 id: 48878-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15748

ADNO: 478155

AUTH: FRANKOVSKY F.A.

CLASS: U

CONN: DA 28 043 AMC 00212(E)

CORP: IBM CORP. (OWEGO, NY)

DATE: 6601

DESC: THEORY

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1 CAPACITORS MAGNETIC CORE MEMORIES

REPN: IBM 65 521 19

SUJO: 4-170-000

TITLE: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON
ELECTRONIC PARTS AND MATERIALS (SCORRE); FIRST QUARTERLY REPORT (U),
32 P., (U)

TREE: 370

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15748

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copy: 1 id: 48895-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15782

ADNO: 472139

AUTH: GILMOUR B.A. ; HEENAN W.F.

CLASS: U

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

DATE: 6509

DESC: Nuclear Weapon Effects materials ceramics optical L1

DESC: BIBLIOGRAPHY

EFFT: TREE

REPN: REIC MEMO 26

SUJO: 3-241-000

TITLE: RADIATION EFFECTS ON GLASS--AN ANNOTATED BIBLIOGRAPHY (U), 31 P.,
(U)

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copy: 1 id: 48923-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15809
ADNO: 803478
AUTH: CHAPIN W.E. ; DRENNAN J.E. ; HAMMAN D.J.
CLSS: U
CONN: AF 33 (615) 1124
CORP: BATTELLE MEMORIAL INSTITUTE, RADIATION EFFECTS INFORMATION CENTER
(COLUMBUS, OH.)
DATE: 6610
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 TRANSDUCERS (PRESSURE TEMPERATURE STRAIN-GAGE
ACCELERATION) THERMISTORS ACCELEROMETERS TACHOMETERS GYROS
DESC: EXPERIMENTAL TABULAR SURVEY
EFFT: NEUTRON; GAMMA
REPN: REIC 43 ; TIC 3
SUJO: 3-224-000
TITL: EFFECT OF NUCLEAR RADIATION ON TRANSDUCERS (U), 126 P., (U)
TREE: 363

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copy: 1 id: 48938-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15885
AUTH: LONG D.M. ; FLESCHER H.L.
CLSS: U
CORP: MARTIN CO. (BALTIMORE, MD.)
DATE: 6607
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
NAND GATES FLIP-FLOPS SHIFT REGISTERS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MOS TRANSISTORS
DESC: SIMULATION (FLASH X-RAY, LINAC) ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-221-000 ; 3-222-000
TITL: TRANSIENT RESPONSE OF MOS TRANSISTORS AND INTEGRATED CIRCUITS TO
IONIZING RADIATION (U), 5 P., (U)
TREE: 325

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copy: 1 id: 49029-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15886
AUTH: PERKINS C.W. ; MARSHALL R.W.

CLSS: U
CONN: DA 28 043 AMC 01313(E)
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6500
DESC: SIMULATION (LINAC, PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
LOGIC CIRCUITS GATE CIRCUITS FLIP-FLOPS
EFFT: TREE
SUJO: 3-222-000
TITL: RADIATION EFFECTS ON MONOLITHIC SILICON INTEGRATED CIRCUITS (U), 30
P., (U)
TREE: 320

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copy: 1 id: 49030-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15887
AUTH: EMMERT R.R. ; BERGGREN C.C. ; PEFFLEY W.M. ; HONNOLD V.R.
CLSS: U
CONN: NONR 4837(00)
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6500
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 CD SE TFT
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: BETA
SUJO: 3-221-000
TITL: TRANSIENT HIGH ENERGY RADIATION RESPONSE IN THE THIN-FILM TRANSISTOR
(U), 27 P., (U)
TREE: 310

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copy: 1 id: 49031-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15889
AUTH: KRUEGER A.F. ; GRIFFIN E.E. JR.
CLSS: U
CORP: AUTONETICS (ANAHEIM, CA.)
DATE: 6606
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
EFFT: X-RAY
SUJO: 3-221-000

TITL: STUDY OF THE TRANSIENT RADIATION RESPONSE OF THIN-FILM FIELD EFFECT
TRANSISTORS (U), 6 P., (U)

TREE: 310

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copy: 1 id: 49033-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15890

AUTH: HONNOLD V.R. ; THOMAS G.D. ; MAZENKO J.J.

CLSS: U

CONN: DA 28 043 AMC 01541 (E)

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

DATE: 6607

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

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: FR 66 17 182 ; ECOM 01541 3

SUJO: 3-221-000

TITL: EFFECT OF TRANSISTOR DESIGN PARAMETERS ON RADIATION RESPONSE (POWER
TRANSISTORS) (U), 13 P., (U)

TREE: 430 ; 310

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15890

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copy: 1 id: 49034-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15891

AUTH: BOWMAN W.C. ; CALDWELL R.S. ; JOHNSTON A.H. ; KELLS K.E.

CLSS: U

CONN: AF 30(602) 3585

CORP: BOEING CO. (SEATTLE, WASH.)

DATE: 6607

DESC: SIMULATION (NEUTRON GENERATOR PULSED IONIZING RADIATION) ;
EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DTL GATES DIFFERENTIAL AMPLIFIER

SUJO: 3-222-000

TITL: TRANSIENT RADIATION RESPONSE MECHANISMS IN MICROELECTRONICS (U), 19
P., (U)

TREE: 320

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copy: 1 id: 49035-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15892
AUTH: SOWIN D.C. ; KELLS K.E. ; WICKLEIN H.W. ; HUNTER L.T.
CLSS: U
CCDE: ZZ (PHOTOCURRENT CALCULATIONS)
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 6607
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DIFFERENTIAL AMPLIFIER NAND GATE
DESC: SIMULATION (PULSED IONIZING RADIATION) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
EFFT: X-RAY
SUJO: 3-221-000 ; 3-222-000
TITL: MICROCIRCUIT HARDENING STUDY (U), 31 P., (U)
TREE: 320 ; 430

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copy: 1 id: 49036-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15894
AUTH: POLL R.A. ; RIDGWAY S.L.
CLSS: U
CORP: GENERAL ATOMIC
DATE: 6607
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 QUARTZ CRYSTAL
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: BETA
REPN: GA 7257
SUJO: 3-220-200
TITL: EFFECTS OF PULSED IONIZING RADIATION ON QUARTZ OSCILLATOR CRYSTALS
(U), 25 P., (U)
TREE: 367

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copy: 1 id: 49038-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15895
AUTH: CROWE J.W.

CLSS: U
CORP: ATOMICS INTERNATIONAL
DATE: 6509
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
MICROCIRCUIT GATE
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIERS
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
EFFT: X-RAY
REPN: AI 65 TDR 179
SUJO: 3-213-000 ; 3-222-000
TITL: HARDENING OF TRANSISTOR CIRCUITS TO IONIZING RADIATION (U), 18 P.,
(U)

TREE: 320 ; 420

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15895

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copy: 1 id: 49039-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15896
ADNO: 629511
AUTH: WESLEY E.J. ; JOSEPH W.F.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6602
DESC: EXPERIMENTAL TABULAR
DESC: test instruments nuclear radiation gamma L1
REPN: NRDL TR 975
SUJO: 4-341-000
TITL: DESIGN CRITERIA FOR WIDE RANGE GAMMA RADIACS USING SEMICONDUCTOR
DIODE DETECTORS (U), 39 P., (U)

TREE: 651

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15896

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copy: 1 id: 49040-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15897
ADNO: 629709
AUTH: BRAYDEN R. ; BOWMAN D. ; MC SHERRY L.K.
CLSS: U
CORP: ARMY ELECTRONICS COMMAND (FT. MONMOUTH, N.J.)
DATE: 6602
DESC: test instruments nuclear radiation gamma L1
DESC: EXPERIMENTAL
REPN: ECOM 2661

SUJO: 4-341-000
TITL: USE OF MOS TRANSISTORS IN SOLID-STATE RADIATION SURVEY METERS (U), 6
P., (U)

TREE: 651

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15897

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copy: 1 id: 49041-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15913

AUTH: CROWE J.W.

CLSS: U

CORP: ATOMICS INTERNATIONAL

DATE: 6509

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

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

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 TIME SELECTOR SWITCH

REPN: AI 65 TDR 174

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

TITL: RADIATION SENSITIVE TIME SELECTOR SWITCH (U), 13 P., (U)

TREE: 367

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copy: 1 id: 49052-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16133

AUTH: RAYMOND J.P. ; CHANG W.W.

CLSS: U

CONN: DA 28 043 AMC 00423 (E)

CORP: NORTHROP CORP., VENTURA DIV. (NEWBURY PARK, CA.)

DATE: 6500

DESC: SIMULATION (FLASH X-RAY) ; THEORY EXPERIMENTAL

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

EFFT: X-RAY ; TREE

REPN: NVR 3840 ; ECOM 00423 1

SUJO: 3-221-000

TITL: STUDY FOR GENERALIZED MODEL FOR SEMICONDUCTOR RADIATION RESPONSE
PREDICTION; REPORT NO. 1 (U), 133 P., (U)

TREE: 310 ; 250

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

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INUM: 16335
AUTH: PALUMBO R.F. ; SEYMOUR A.H. ; WELANDER A.D.
CLSS: U
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION BIOLOGY (SEATTLE,
WASH.)
DATE: 6600
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: EXPERIMENTAL SUMMARY
REPN: PACE 41
TSHO: LOW-ALT
SUJO: 3-312-220
TITL: RADIONUCLIDES IN FOODS FROM THE CENTRAL PACIFIC, 1962 (U), 7 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 16346
AUTH: WELANDER A.D.
CLSS: U
CONN: AT (45 1) 1385
CORP: UNIVERSITY OF WASHINGTON, COLLEGE OF FISHERIES (SEATTLE, WASH.)
DATE: 6500
DESC: EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Environment Fallout isotope concentrations L5
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L5
REPN: PACE 25
SUJO: 2-223-100 ; 3-312-220 ; 3-332-220
TITL: DISTRIBUTION OF RADIONUCLIDES IN THE ENVIRONMENT OF ENIWETOK AND
BIKINI ATOLLS, AUGUST 1964 (U), 9 P., (U)

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copy: 1 id: 49389-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16367

ADNO: 477693
AUTH: FRANKOVSKY F.A. ; SHATZKES M.
CLSS: U
CONN: DA 28 043 AMC 00212 (E)
CORP: IBM, CORP. (OWEGO, N.Y.)
DATE: 6601
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
MAGNETIC CORES + TAPES
DESC: SIMULATION (LINAC REACTOR)
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 1K CERMET THIN FILM
RESISTORS MICA CERAMIC GLASS TA O POLYSTYRENE MYLAR CAPACITORS MANY
TYPES WITH PART NUMBERS
EFFT: TREE
REPN: IBM 65 521 14
SUJO: 3-225-000 ; 3-229-000
TITL: STUDY OF EFFECT OF HIGH-INTENSITY PULSED NUCLEAR RADIATION ON
ELECTRONIC PARTS AND MATERIALS (SCORRE); FIRST ANNUAL INTERIM REPORT
(U), 98 P., (U)
TREE: 343 ; 370

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16370
AUTH: HENDERSHOTT D.
CLSS: U
CORP: GENERAL ELECTRIC CO., REENTRY SYSTEMS DEPT. (PHILADELPHIA, PA.)
DATE: 6508
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CERAMIC TANTALUM
CAPACITORS VARIOUS RESISTORS (THICK FILM POTENTIOMETER)
DESC: Nuclear Weapon Effects materials plastics resins L1 RUBBER FOAM
POTTING COMPOUND
DESC: SIMULATION (STEADY STATE + PULSED REACTOR LINAC FLASH X-RAY) ;
EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODES ZENER DIODES SCR-S FET-S
TRANSISTORS
REPN: 65 SD 2022
SUJO: 3-221-000 ; 3-229-000 ; 3-244-000
TITL: NUCLEAR RADIATION TEST RESULTS ON ELECTRONIC PARTS, REPORT 2 (U), 61
P., (U)
TREE: 310 ; 370

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copy: 1 id: 49404-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16469
AUTH: FRANK M.
CLSS: U
CONN: AF 29 (601) 7110
CORP: BENDIX CORP., RESEARCH LABS. DIV. (SOUTHFIELD, MI.)
DATE: 6608
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS DIODES SCR-S MESA
TRANSISTORS
EFFT: TREE
REPN: RLD 3586
SUJO: 3-221-000 ; 3-222-000
TITL: DEVELOPMENT OF A NON-DESTRUCTIVE RADIATION EFFECTS PREDICTION
TECHNIQUE (U), 50 P., (U)
TREE: 310 ; 649

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copy: 1 id: 49420-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16470
AUTH: CALME E.E. ; FRIES R.C. ; KOEPP-BAKER N.B. ; PUTZ J.L. ; SHOVEN R.W.
CLSS: U
CONN: DA 28 043 AMC 00475 (E)
CORP: GENERAL ELECTRIC CO., RECEIVING TUBE DEPT. (OWENSBORO, KY.)
DATE: 6508
DESC: Nuclear Weapon Effects materials ceramics optical L1 CERAMIC WINDOWS
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 MICROWAVE ELECTRON TUBES
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 MYLAR
EFFT: TREE
SUJO: 3-220-200 ; 3-229-000 ; 3-241-000
TITL: TRANSIENT RADIATION EFFECTS ON MICROWAVE ELECTRON TUBES (U), 102 P.,
(U)
TREE: 305

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copy: 1 id: 49421-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16471
AUTH: LICHTENSTEIN R.M. ; WILLARD H.J. JR. ; CORELLI J.C.
CLSS: U
CONN: DA 36 039 AMC 02165 (E)
CORP: RENSSELAER POLYTECHNIC INSTITUTE (TROY, N.Y.)
DATE: 6500
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SI 48 MEV ELECTRONS 100 DEGREES TO 300 DEGREES K
EFFT: BETA ; TREE
SUJO: 3-220-200
TITL: INVESTIGATION OF TRANSIENT RADIATION DAMAGE IN SEMICONDUCTOR
MATERIALS (U), 37 P., (U)
TREE: 200

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copy: 1 id: 49422-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16472
AUTH: LICHTENSTEIN R.M. ; WILLARD H.J. JR. ; CORELLI J.C.
CLSS: U
CONN: DA 36 039 AMC 02165
CORP: RENSSELAER POLYTECHNIC INSTITUTE (TROY, N.Y.)
DATE: 6500
DESC: SIMULATION (LINAC LIGHT FLASH) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SI 48 MEV ELECTRONS 80 DEGREES TO 300 DEGREES K
EFFT: BETA ; TREE
SUJO: 3-220-200
TITL: INVESTIGATION OF TRANSIENT RADIATION DAMAGE IN SEMICONDUCTOR
MATERIALS (U), 37 P., (U)
TREE: 200

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copy: 1 id: 49423-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16793
AUTH: VAN LINT V.A.J. ; WIKNER E.G. ; DENSON R. ; HORIYE H. ; LINTZ H.K. ;
NICHOLS D.K. ; POLL R.A.
CLSS: U
CONN: DA 49 186 AMC 65 (X)
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)

DATE: 6503
DESC: Nuclear Weapon Effects materials metals alloys L1 CU PT AL SECONDARY
ELECTRON EMISSION
DESC: SIMULATION (LINAC REACTOR NEUTRON GENERATOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 GE ANNEALING BETWEEN 80 DEGREES 400 DEGREES K SI GE
HALL DATA CONDUCTIVITY MGO CONDUCTIVITY
DESC: test instruments nuclear radiation dosimeters radiacs L1
EFFT: TREE
REPN: GA 6248
SUJO: 3-220-200 ; 3-243-000 ; 4-346-000
TITL: TRANSIENT RADIATION EFFECTS; ANNUAL TECHNICAL SUMMARY FEBRUARY 6,
1964 THROUGH FEBRUARY 8, 1965 (U), 198 P., (U)

TREE: 200

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

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INUM: 16924
AUTH: OVERMYER R.F. ; NICHOLS D.K. ; VAN LINT V.A.J.
CLSS: U
CONN: DA 28 043 AMC 01412 (E)
CORP: GENERAL DYNAMICS CORP., GENERAL ATOMIC DIV. (SAN DIEGO, CA.)
DATE: 6512
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 FOIL MICA SILVERED MICA
SOLID TA CERAMIC MYLAR CAPACITORS
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 DIELECTRICS
DESC: SIMULATION (LINAC APFA REACTOR) ; THEORY EXPERIMENTAL
EFFT: TREE
REPN: GA 6715 ; ECOM 01412 1
SUJO: 3-220-200 ; 3-229-000
TITL: RADIATION EFFECTS ON DIELECTRIC MATERIALS (U), 31 P., (U)
TREE: 385

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

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INUM: 17275
AUTH: HANKS C.L. ; HAMMAN D.J.
CLSS: U
CONN: AF 33 (615) 1124
CORP: BATTELLE MEMORIAL INSTITUTE, RADIATION EFFECTS INFORMATION CENTER

(COLUMBUS, OH.)

DATE: 6612
DESC: THEORY EXPERIMENTAL SURVEY
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS
EFFT: TREE
REPN: REIC REPT. 44
SUJO: 3-229-000
TITL: EFFECT OF NUCLEAR RADIATION ON CAPACITORS (U), 144 P., (U)
TREE: 370

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copy: 1 id: 50059-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17390

ABS: Accidental or experimental detonation of atomic weapons that contain plutonium under conditions such that the degree of criticality produced is insignificant may create an immediate and a residual or delayed plutonium health hazard. Uranium, which is also consistently present, is not a radio-active health hazard. The immediate hazard is associated with the inhalation of plutonium during cloud passage and on the basis of theoretical considerations appears to be relatively insignificant. The delayed hazard results from residual plutonium deposited in the fall-out pattern, which may produce chronic contamination over a long period of time. The magnitude of the residual hazard is not easily evaluated on a theoretical basis, since it depends on a number of parameters which are not readily established.

ABS: Theoretical curves for maximum allowable air concentrations as a function of time of exposure, based on the assumption of a maximum permissible level of 0.008 micron C of plutonium in the lung and a maximum permissible total body level of 0.5 micron g, have been developed. These curves may be quite useful in assessing the magnitude of the immediate and residual hazards. Suggestions are made as to the course of action that should be followed in the event of an accidental detonation of the type under consideration.

AUTH: LANGHAM W.H. ; HARRIS P.S. ; SHIPMAN T.L.

CLASS: U

CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, N.M.)

DATE: 6602

DESC: Nuclear weapon safety criticality studies

DESC: THEORY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1

REPN: LA 1981 REV.

SUJO: 3-312-200 ; 4-838-900

TITL: PLUTONIUM DISPERSAL BY ACCIDENTAL OR EXPERIMENTAL LOW-ORDER
DETONATION OF ATOMIC WEAPONS (U), 42 P., (U)

TNFF: 8870 ; 8859

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

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INUM: 17402
AUTH: FERGUSON J.M. ; READ P.A.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6501
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: THEORY
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
REPN: NRDL TR 808
SUJO: 2-223-100 ; 2-223-200
TITL: MODEL FOR CALCULATING INDEPENDENT RADIOCHEMICAL YIELDS FROM THE
THERMAL NEUTRON FISSION OF U235 (U), 38 P., (U)

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

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INUM: 17475
AUTH: TAYLOR C.D.
CLSS: U
CORP: NEW MEXICO STATE UNIVERSITY (UNIVERSITY PARK, N.M.)
DATE: 6505
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems antennas L1
DESC: THEORY
DESC: Radiation Transport electron L1
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L5
DESC: nuclear test detection EMP earth current detection L5
EFFT: GAMMA ; TREE
EMPF: 270
REPN: SC R 65 933
TSHO: HI-ALT
SUJO: 2-510-000 ; 3-132-210 ; 4-914-000 ; 9-680-000
TITL: SOME ELECTROMAGNETIC EFFECTS OF HIGH DENSITY GAMMA FLUX INTERACTING
WITH MATTER (U), 65 P., (U)

TREE: 395

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copy: 1 id: 50286-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 17525
AUTH: GOYA H.A. ; LAI M.G.
CLSS: U
CONN: AT (49 5) 2084
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6608
DESC: Environmental Impact Assessments EIS Supporting Data L1
DESC: EXPERIMENTAL
REPN: NRDL TR 1065
SUJO: 4-870-200
TITL: RADIOACTIVITY RELEASE FROM RADIONUCLIDE POWER SOURCES, IV. RELEASE
FROM HIGH-FIRED PLUTONIUM DIOXIDE TO SEA WATER (U), 41 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17526
AUTH: LAI M.G. ; GOYA H.
CLSS: U
CONN: AT (4905) 2084
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6607
DESC: Environmental Impact Assessments EIS Supporting Data L1
DESC: EXPERIMENTAL
REPN: NRDL TR 1050
SUJO: 4-870-200
TITL: RADIOACTIVITY RELEASE FROM RADIONUCLIDE POWER SOURCES, III. RELEASE
FROM PLUTONIUM METAL TO SEAWATER (U), 58 P., (U)

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copy: 1 id: 50329-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17549
AUTH: TERESI J.D.
CLSS: U
CONN: AT 49 505 (3)
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6508
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
DESC: Environmental Impact Assessments EIS Supporting Data L1
DESC: SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: GAMMA ; BETA
REPN: NRDL TR 893
SUJO: 3-312-100 ; 3-312-200 ; 4-870-200
TTTL: RADIATION EXPOSURE CRITERIA AND RADIATION EFFECTS OF IMPORTANCE TO
ANALYSIS OF NUCLEAR ROCKET FLIGHT SAFETY (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: 17714
ADNO: 368180
AUTH: MIESKUC B.J.
CLSS: U
CONN: DA 18 108 AMC 94
CORP: ARMY NUCLEAR DEFENSE LAB. (EDGEWOOD ARSENAL, MD.)
DATE: 6512
DESC: GAMMA SIMULATOR ; EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1 VIRUSES BACTERIA, TOXINS, MICE
EFFT: GAMMA
REPN: NDL TR 73
SUJO: 3-312-210
TTTL: EFFECTS OF GAMMA RADIATION ON VARIOUS CHEMICAL AND BIOLOGICAL
SYSTEMS (U), 65 P., (U)

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

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INUM: 17800
AUTH: GIPSON D.H.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6502
DESC: Nuclear Test Simulation Field Programs experiment design stemming
containment line of sight LOS L1
DESC: HEM ; EXPERIMENTAL
REPN: UCRL 12203
SHOT: ALVA
SUJO: 4-829-700
TTTL: EXPLOSIVELY DRIVEN PIPE CLOSURE (U), 9 P., (U)

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

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INUM: 17854
ADNO: AD 366253L
AUTH: AVISE H.
CLSS: C
CCDE: COBRA (WAR GAMING) NMCSSC
CONN: DA 49 146 XZ 139
CORP: CEIR, INC.
DATE: 6508
DESC: Nuclear Warfare Target Analysis general models L1
DESC: THEORY CODE
REPN: CPM GD/SD 8 65
SUJO: 3-430-100
TEMP: A5302
TITL: COMPREHENSIVE BLAST AND RADIATION ASSESSMENT SYSTEM (U), (COBRA) CA.
50 P., (C)

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copy: 1 id: 50621-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17878
ABS: Procedures for decontamination, collection, packaging, transportation and ultimate disposal of the large quantities of radioactive waste generated as a result of a nuclear-weapon accident are presented. Plutonium hazard and dispersion, previous research on nuclear-weapon accident hazards, as well as acceptable levels of contamination are reviewed and discussed. From test group 57 and Roller Coaster data, the extent of the significantly contaminated area was estimated to be between 0.1 and 0.5 mi². Types of waste generated and methods of collecting, packaging and transporting are presented for rural, industrial, suburban, and airfield areas. Only first approximations of economic costs are made for reclamation of each type of area. Social and legal costs are not estimated. The equipment for cleanup available to the Army through organic units and through government agencies is reviewed.
ABS: It is concluded that, while the Army theoretically has sufficient resources to conduct a cleanup of an accident site, further study is needed to determine pre-planned procedures, optimum utilization of available equipment, and expedient packaging procedures.
ADNO: 805035
AUTH: SMALE R.F. ; MALONEY J.C.
CLSS: U
CORP: ARMY NUCLEAR DEFENSE LAB. (EDGEWOOD ARSENAL, MD.)

DATE: 6611
DESC: Nuclear weapon safety radiological
DESC: Nuclear Weapon Environment fallout redistribution L5
DESC: SUMMARY
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5 PU
DESC: Nuclear Energy Power Nuclear Materials waste disposal L1
EFFT: PU
REPN: NDL TR 79
SHOT: PROJECT 57 ; DOUBLE TRACKS ; CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN
SLATE 3
SUJO: 2-225-100 ; 2-225-500 ; 3-530-000 ; 4-838-100
TITL: WASTE DISPOSAL ASPECTS OF A NUCLEAR-WEAPON ACCIDENT (U), 48 P., (U)
TNFF: 8859

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copy: 1 id: 50644-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17887
AUTH: ROGERS L.A.
CLSS: U
CCDE: SOC
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6602
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
REPN: UCRL 14463 REV. I
SHOT: SALMON
TSHO: UG-CONTAINED
SUJO: 2-621-000 ; 2-623-000
TITL: FREE FIELD MOTION NEAR A NUCLEAR EXPLOSION IN SALT: PROJECT SALMON
(U), 35 P., (U)

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copy: 1 id: 50651-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18145
AUTH: FREEMAN B.E.
CLSS: SRD
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS, N.M.)
DATE: 6508

DESC: Radiation Transport x-ray L1
DESC: THEORY
DESC: Nuclear Weapon Environment X-ray Output L1
REPN: LA 3376
SUJO: 1-600-000 ; 9-640-000
TEMP: A5818
TTTL: NUMERICAL METHODS FOR SOLUTION OF THE INTEGRAL EQUATIONS OF
MULTI-DIMENSIONAL RADIATION TRANSPORT (U), 24 P., (SRD)

TREE: 930

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copy: 1 id: 50906-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18148

AUTH: COWAN G.A.

CLSS: SRD CNWDI

CONN: W 7405 ENG 36

CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS, N.M.)

DATE: 6501

DESC: test instruments nuclear radiation neutron L1

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: Nuclear weapon test burn performance L5

DESC: Nuclear weapon test yield L5

DESC: EXPERIMENTAL SUMMARY

REPN: LA 3220 MS

SHOT: CHAMA ; ENCINO ; NAMBE ; OTOWI ; DULCE ; MESILLA ; NAMBE ; YESO ;
ADOBE ; AZTEC ; SUNSET ; RINCONADA ; ALMA ; QUESTA

TSHO: LOW-ALT

SOCE: 

SUJO: 4-342-000 ; 4-835-000 ; 4-836-000 ; 4-837-000

TEMP: A5821

TTTL: DETECTOR RESULTS FOR OPERATION DOMINIC DEVICES (U), 35 P., (SRD
CNWDI)

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copy: 1 id: 50909-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18234

AUTH: SHIPMAN W.H. ; LAI M.G. ; GOYA H.

CLSS: U

CONN: AT (49 5) 2084

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

DATE: 6503
DESC: nuclear test detection debris fallout L5
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation fallout debris sampling
collectors L1
REPN: NRD L TR 835
SUJO: 4-345-000 ; 4-919-000
TITL: DETERMINATION OF PLUTONIUM-239 IN SEA WATER BY LIQUID SCINTILLATION
COUNTING (U), 16 P., (U)

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INUM: 18332
AUTH: FRANK B.V. ; COTTON F.F. ; BRENDER N.
CLSS: SRD
CORP: PICATINNY ARSENAL (DOVER, N.J.)
DATE: 6604
DESC: THEORY
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5
DESC: Nuclear Weapon Effects missile systems ABM electronics L1
EFFT: X-RAY
REPN: SMUPA TK 975
SOCE: MK-50
SUJO: 1-620-000 ; 3-112-230
SYST: NIKE ZEUS
TEMP: A6011
TITL: RADIATION FRATRICIDE STUDY OF NIKE ZEUS (U), 33 P., (SRD)

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INUM: 18391
AUTH: MCGUIRE E.J.
CLSS: CRD
CORP: SANDIA CORP. (ALBUQUERQUE, N.M.)
DATE: 6610
DESC: Radiation Transport x-ray L1
DESC: THEORY
REPN: SC WD 66 475
SUJO: 9-640-000
TEMP: A6127
TITL: STUDY OF MULTIPLE COMPTON SCATTERING (U), 29 P., (CRD)
TREE: 980

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created: 12/27/1991 type: REPORT permanent

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INUM: 18397

AUTH: NETHAWAY D.R.

CLSS: SRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 6508

DESC: Nuclear weapon test yield L1

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: EXPERIMENTAL

REPN: UCRL 14352

SHOT: WOOL

TSHO: UG-CONTAINED

SOCE: 

SUJO: 4-835-000 ; 4-836-000

TEMP: A6145

TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE WOOL EVENT -OPERATION
WHETSTONE (U), 41 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18398

AUTH: TEWES H.A.

CLSS: SRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 6509

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: Nuclear weapon test yield L1

DESC: THEORY EXPERIMENTAL

REPN: UCRL 14423

SHOT: KLICKITAT

TSHO: UG-CONTAINED

SOCE: 

SUJO: 4-835-000 ; 4-836-000

TEMP: A6146

TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE KLICKITAT EVENT OF
OPERATION NIBLICK (U), 116 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18399

AUTH: SQUIRE R. ; RENNER R.

CLSS: SRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 6510

DESC: Nuclear weapon test yield L1 P 18 VARIOUS DEVICES

DESC: Nuclear Warfare Theater systems buried munitions ADM SADM L1

DESC: TABULAR

REPN: UCRL 14433

SUJO: 3-413-100 ; 4-835-000

TEMP: A6147

TITL: ATOMIC DEMOLITION MUNITIONS SUMMARY REPORT (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: 18400

AUTH: NETHAWAY D.R.

CLSS: SRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 6510

DESC: EXPERIMENTAL

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: Nuclear weapon test yield L1

REPN: UCRL 14497

SHOT: CAMBRIC

TSHO: UG-CONTAINED

SOCE: 

SUJO: 4-835-000 ; 4-836-000

TEMP: A6148

TITL: CLASSIFIED TITLE (U), 35 P., (SRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 18401
AUTH: HORNBECK R.F.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6510
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 14422
SHOT: WISHBONE
TSHO: UG-CONTAINED
SOCE: 
SUJO: 4-835-000 ; 4-836-000
TEMP: A6149
TTTL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE WISHBONE EVENT ON
OPERATION WHETSTONE (U), 52 P., (SRD)

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

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INUM: 18402
AUTH: GOISHI W.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6511
DESC: EXPERIMENTAL
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

REPN: UCRL 14525
SHOT: FOREST
TSHO: UG-CONTAINED
SOCE: 
SUJO: 4-836-000
TEMP: A6150
TTTL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE FOREST EVENT OF
OPERATION WHETSTONE (U), 58 P., (SRD)

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created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18403
AUTH: MEADOWS J.W.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6511
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
REPN: UCRL 14515
SHOT: ALPACA
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6151
TTTL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE ALPACA EVENT OF
OPERATION WHETSTONE (U), 55 P., (SRD)

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

.endblock

INUM: 18404
AUTH: AMMERMAN C.N.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6512
DESC: Nuclear Warfare Theater systems buried munitions ADM SADM L1
DESC: Nuclear weapon test yield L1
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: TABULAR
REPN: UCRL 14434
SHOT: ANTLER
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 2-625-000 ; 3-413-100 ; 4-835-000 ; 4-836-000
TEMP: A6152
TTTL: ATOMIC DEMOLITION MUNITIONS PAST, PRESENT, AND FUTURE (U), 104 P.,
(SRD)

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18404

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 18405
AUTH: NOLEN L.L.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6509
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
REPN: UCRL 14421
SHOT: GUMDROP
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6153
TTTL: FINAL REPORT ON RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS FOR THE
GUMDROP EVENT OF OPERATION WHETSTONE (U), 24 P., (SRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 18406
AUTH: PYPYER J.W.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6512
DESC: Nuclear weapon test yield L1
DESC: THEORY EXPERIMENTAL
REPN: UCRL 14516
SHOT: SUEDE
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000
TEMP: A6155
TTTL: CLASSIFIED TITLE (U), 55 P., (SRD)

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INUM: 18407

AUTH: MODE V.A.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6601
DESC: THEORY EXPERIMENTAL
REPN: UCRL 14556
TEMP: A6156
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE ANTLER EVENTS OF
OPERATION NOUGAT (U), 55 P., (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 18408
AUTH: LINDNER M.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6601
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 14560
SHOT: CLUB
TSHO: UG-CONTAINED
SOCE: XXXXXXXXXX
SUJO: 4-835-000 ; 4-836-000
TEMP: A6157
TITL: CLASSIFIED TITLE (U), 44 P., (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 18409
AUTH: LINDNER M.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6605
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: THEORY EXPERIMENTAL
REPN: UCRL 14772
SHOT: CENTAUR

TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6158
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE CENTAU EVENT OF
OPERATION FLINTLOCK (U), 53 P., (SRD)

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INUM: 18410
AUTH: IDE R.H.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6605
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
REPN: UCRL 14567
SHOT: CHENILLE
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6159
TITL: CLASSIFIED TITLE (U), 49 P., (SRD)

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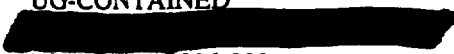
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created: 12/27/1991 type: REPORT permanent
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INUM: 18411
AUTH: NETHAWAY D.R.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6606
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
REPN: UCRL 14803
SHOT: YUBA
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000

TEMP: A6160
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE YUBA EVENT OF OPERATION
STORAX (U), 74 P., (SRD)

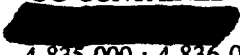
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INUM: 18412
AUTH: MILLER L.D.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6607
DESC: THEORY EXPERIMENTAL
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon test yield L1
REPN: UCRL 14319
SHOT: DRILL
TSHO: UG-CONTAINED
SOCE: 
SUJO: 4-835-000 ; 4-836-000
TEMP: A6161
TITL: CLASSIFIED TITLE (U), 45 P., (SRD)

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INUM: 18413
AUTH: BURTON G.W.JR.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6607
DESC: Nuclear weapon test yield L1
DESC: EXPERIMENTAL
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 14435
SHOT: CLEARWATER
TSHO: UG-CONTAINED
SOCE: 
SUJO: 4-835-000 ; 4-836-000
TEMP: A6162
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE CLEARWATER EVENT OF
OPERATION NIBLICK (U), 110 P., (SRD)

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18413
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created: 12/27/1991 type: REPORT permanent
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INUM: 18414
AUTH: MISSIMER M.C.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6608
DESC: Nuclear weapon test yield L1
DESC: EXPERIMENTAL
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 14802
SHOT: YORK
TSHO: UG-CONTAINED
SOCE: ██████████
SUJO: 4-835-000 ; 4-836-000
TEMP: A6163
TTTL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE YORK EVENT OF OPERATION
STORAX (U), 26 P., (SRD)


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INUM: 18418
CLSS: SRD
CORP: SANDIA CORP. (LIVERMORE, CA.) ; LAWRENCE RADIATION LAB. (LIVERMORE,
CA.)
DATE: 6608
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: TABULAR
DESC: Nuclear weapon safety operational in-field use reliability broken
arrows L5
REPN: SCL WD 65 100 ; RS 8232 2/10187
SOCE: MK 45 MOD 3
SUJO: 4-836-000 ; 4-838-600
TEMP: A6169
TTTL: MK 45 MOD 3 (U), 58 P., (SRD)

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18418
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INUM: 18433
AUTH: MILLER L.D.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6502
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
REPN: UCRL 12417
SHOT: LINKS
TSHO: UG-CONTAINED
SOCE: 
SUJO: 4-835-000 ; 4-836-000
TEMP: A6201
TTTL: CLASSIFIED TITLE (U) 36 P., (SRD)


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INUM: 18436
AUTH: HICKS H.G.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6602
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon test yield L1
DESC: EXPERIMENTAL
REPN: UCRL 14382
SHOT: STONES
TSHO: UG-CONTAINED
SOCE: 
SUJO: 4-835-000 ; 4-836-000
TEMP: A6204
TTTL: CLASSIFIED TITLE (U) 69 P., (SRD)

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INUM: 18439
AUTH: BANDTEL K.C.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6508
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
DESC: Nuclear Weapon Effects reentry systems RV L1 BAGPIPE
DESC: EXPERIMENTAL
EFFT: NEUTRON ; AIR-BLAST ; INTEGRATED
REPN: UCRL 14385
SHOT: ██████████
TSHO: UG-CONTAINED
SUJO: 3-113-000 ; 3-161-100
TEMP: A6207
TTTL: BAGPIPE INTERIM REPORT (U), 37 P., (SRD)

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.endblock

INUM: 18440
AUTH: TEWES H.A.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6508
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 14373
SHOT: KOOTENAI
TSHO: UG-CONTAINED
SOCE: ██████████
SUJO: 4-835-000 ; 4-836-000
TEMP: A6208
TTTL: CLASSIFIED TITLE (U) 49 P., (SRD)

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INUM: 18441

ABS: This report records the information presented by LRL at the pre-phase 2 meeting for the advanced nuclear demolition munition, which was held at Albuquerque, New Mexico, on August 17, 1965.

CLSS: SRD
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6509
DESC: Nuclear Warfare Theater systems buried munitions ADM SADM L1
DESC: TABULAR
REPN: UCRL 14409
SUJO: 3-413-100
TEMP: A6209
TITL: ATOMIC DEMOLITION MUNITIONS--USES, CONSTRAINTS, AND TECHNOLOGY (U),
18 P., (SRD)
TNFF: 4810

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18441
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INUM: 18442
AUTH: HARRISON M.A. ; RENNER R.A.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 6509
DESC: Nuclear weapon test device physical operation construction geometry
materials components L5
DESC: Nuclear Warfare Theater systems buried munitions ADM SADM L5
REPN: UCRL 14410
SUJO: 3-413-100 ; 4-836-000
TEMP: A6210
TITL: FISSION EXPLOSIVES FOR ATOMIC DEMOLITION MUNITION APPLICATIONS (U),
6 P., (SRD)

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18442
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created: 12/27/1991 type: REPORT permanent
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INUM: 18443
AUTH: MOULTHROP P.H.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6509
DESC: Nuclear weapon test device physical operation construction geometry
materials components L5 ADM

DESC: SUMMARY
REPN: UCRL 14411
TSHO: SURFACE
SUJO: 4-836-000
TEMP: A6211
TITL: CLASSIFIED TITLE (U) 9 P., (SRD)

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copy: 1 id: 51227-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18444
AUTH: LEVY H.B.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6510
DESC: EXPERIMENTAL
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: Nuclear weapon test yield L1

REPN: UCRL 14286

SHOT: ALVA

TSHO: UG-CONTAINED

SOCE: XXXXXXXXXX

SUJO: 4-835-000 ; 4-836-000

TEMP: A6212

TITL: FINAL REPORT ON RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS FOR THE ALVA
EVENT OF OPERATION WHETSTONE (U), 67 P., (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 18459
AUTH: STEVENSON P.C.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6502
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: EXPERIMENTAL

DESC: Nuclear weapon test yield L1

REPN: SCRL 12385

SHOT: SACRAMENTO

TSHO: UG-CONTAINED

SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6227
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE NOUGAT SACRAMENTO EVENT
(U), 39 P., (SRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 18460
AUTH: TEWES H.A.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6507
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon test yield L1
DESC: EXPERIMENTAL
REPN: UCRL 14302
SHOT: KOHOCTON
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6228
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE KOHOCTON
EVENT-OPERATION NIBLICK (U), 96 P., (SRD)

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18460
.endblock

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copy: 1 id: 51245-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18461
AUTH: HICKS H.G.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6511
DESC: Nuclear weapon test yield L1
DESC: EXPERIMENTAL
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 14295
SHOT: CUP
TSHO: UG-CONTAINED
SOCE: [REDACTED]

SUJO: 4-835-000 ; 4-836-000
TEMP: A6229
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE CUP EVENT OF OPERATION
WHETSTONE (U), 153 P., (SRD)

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.endblock

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copy: 1 id: 51246-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18462
AUTH: MORROW R.J.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6512
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
REPN: UCRL 14317
SHOT: BUNKER
TSHO: UG-CONTAINED
SOCE: XXXXXXXXXX
SUJO: 4-835-000 ; 4-836-000
TEMP: A6230
TITL: CLASSIFIED TITLE (U) 52 P., (SRD)

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18462
.endblock

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copy: 1 id: 51247-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18465
AUTH: DOBSON D.A. ; PIPKORN D.N. ; SELDEN R.W.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6612
DESC: Nuclear weapon basic design L1
DESC: THEORY
REPN: UCRL 50239
SUJO: 4-831-000
TEMP: A6236
TITL: NTH COUNTRY EXPERIMENT (U), 88 P., (SRD CNWDI)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18488

ABS: A review of the work in neutron-induced activity in soils by NRDL scientific investigators is presented. The results of this work have led to a neutron-induced activity prediction system. A method of calculating a neutron-induced radiation field and the background physics involved are explained. This method of calculation is presented in a set of nomograms.

AUTH: TOMNOVEC F.M.

CLSS: SRD

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

DATE: 6506

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

DESC: Nuclear Weapon Environment Prompt Neutron source strength total fluence L1 UNDERGROUND

DESC: Nuclear Weapon Environment radiation decay gamma decay L1

REPN: NRDL TR 860

SHOT: SMALL BOY

TSHO: SURFACE

SUJO: 1-110-000 ; 2-223-100 ; 2-223-420

TEMP: A5553

TITL: REVIEW OF NRDL NEUTRON INDUCED ACTIVITY STUDIES--METHOD FOR PREDICTING INDUCEDACTIVITY RADIATION FIELDS FOR A GIVEN SOIL TYPE (U), 78 P.. (S)

TNFF: 4860

TREE: 920

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

INUM: 18518

ADNO: 644492

AUTH: AYRES R.U.

CLSS: U-

CCDE: JUMBO III ; STREAK IV ; RISK II ; READY I ; COBRA ; D + C ; REST ; SIDAC ; BRISK-FRISK ; DASH ; DASTAP ; QUICKCOUNT ; FALDIK ; STS

CONN: OCD PS 65 64

CORP: HUDSON INSTITUTE (CROTON-ON-HUDSON, N.Y.)

DATE: 6612

DESC: SUMMARY

DESC: Nuclear Weapon Effects structures aboveground cities L5

DESC: Nuclear Weapon Environment fallout intensity contours patterns L5

DESC: Nuclear Weapon Effects on animals ionizing radiation L5

DESC: Nuclear Warfare Target Analysis general models L1

EFFT: THERMAL ; AIR-BLAST
REPN: HI 693 RR
SUJO: 2-225-100 ; 3-252-000 ; 3-312-000 ; 3-430-100
TTTL: ON DAMAGE ASSESSMENT MODELS (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: 18539
CLSS: SRD
CORP: SANDIA CORP (LIVERMORE, CA.) ; LAWRENCE RADIATION LAB (LIVERMORE,
CA.)

DATE: 6504

DESC: Nuclear weapon safety operational in-field use reliability broken
arrows L1

DESC: TABULAR

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

REPN: SCL WD 64 97 ; RS 8232 2/5834

SOCE: MK 56 MOD 2

SUJO: 4-836-000 ; 4-838-600

SYST: MK 11A RV ; MINUTEMAN

TEMP: A6251

TTTL: MK 56 MOD 2 WARHEAD FINAL DEVELOPMENT REPORT (U), 76 P., (SRD)

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

.endblock

INUM: 18540
AUTH: COLEMAN G.H.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 6509

DESC: Nuclear weapon test yield L1

DESC: EXPERIMENTAL

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

REPN: UCRL 14420

SHOT: CREPE

TSHO: UG-CONTAINED

SOCE: XXXXXXXXXX

SUJO: 4-835-000 ; 4-836-000

TEMP: A6252

TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE CREPE EVENT OF
OPERATION WHETSTONE (U), 245 P., (SRD)

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.endblock

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

INUM: 18541
AUTH: TEWES H.A.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6503
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
REPN: UCRL 12491
SHOT: GREYS
TSHO: UG-CONTAINED

SOCE: [REDACTED]
SUJO: 4-835-000
TEMP: A6273
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE GREYS EVENT -OPERATION
NIBLICK (U), 82 P., (SRD)

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18541
.endblock

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

INUM: 18542
AUTH: READ J.B.J.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6503
DESC: EXPERIMENTAL
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: Nuclear weapon test yield L1
REPN: UCRL 12486
SHOT: TORNILLO
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6274
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE TORNILLO
EVENT-OPERATION NIBLICK (U), 94 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18543

AUTH: MEADOWS J.W.

CLSS: SRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6504

DESC: Nuclear weapon test yield L1

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: EXPERIMENTAL

REPN: UCRL 12413

SHOT: HOOK

TSHO: UG-CONTAINED

SOCE: [REDACTED]

SUJO: 4-835-000 ; 4-836-000

TEMP: A6275

TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE HOOK EVENT-OPERATION
NIBLICK (U),73 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18544

AUTH: LEVY H.B.

CLSS: SRD

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6504

DESC: Nuclear weapon test yield L1

DESC: EXPERIMENTAL

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

REPN: UCRL 12443

SHOT: BACKSWING

TSHO: UG-CONTAINED

SOCE: [REDACTED]


SUJO: 4-835-000 ; 4-836-000

TEMP: A6276

TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE BACKSWING
EVENT-OPERATION NIBLICK(U), 61 P., (SRD)


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

INUM: 18545
AUTH: HUTCHIN W.H.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6602
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
REPN: UCRL 14493
SHOT: MUDPACK
TSHO: UG-CONTAINED
SOCE: 
SUJO: 4-835-000 ; 4-836-000
TEMP: A6277
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE MUDPACK EVENT OF
OPERATION WHETSTONE (U), 36 P., (SRD)

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18545
.endblock

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

INUM: 18546
AUTH: STEVENSON P.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6607
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 50106
SHOT: PLAID 2
TSHO: UG-CONTAINED
SOCE: 
SUJO: 4-835-000 ; 4-836-000
TEMP: A6278
TITL: CLASSIFIED TITLE (U), 64 P., (SRD)

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18546
.endblock

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

.endblock

INUM: 18547
AUTH: STEVENSON P.C.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6610
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon test yield L1
DESC: EXPERIMENTAL
REPN: UCRL 50119
SHOT: DURYEA
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6279
TITL: CLASSIFIED TITLE (U), 116 P., (SRD)

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

.endblock

INUM: 18623
AUTH: DAUGHERTY W. ; NELSON M.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.) ; SANDIA LAB (LIVERMORE,
CA.)
DATE: ' 6512
DESC: TABULAR
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
DESC: Nuclear Weapon Effects reentry systems RV electronics L1 BAGPIPE
EFFT: NEUTRON ; TREE
REPN: SCL DR 65 140 ; RS 8232 2/11231
SOCE: [REDACTED]
SUJO: 3-113-300 ; 3-161-100
TEMP: A6233
TITL: WEIGHT VERSUS NEUTRON AND BLAST HARDNESS TRADE-OFFS FOR TWO R/V
YIELDS (U), 28P., (SRD)

TREE: 396

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18623

.endblock

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copy: 1 id: 51403-1001 library: DOCUMENT price: \$0.00
cat1: cat2: home: STACKS current: STACKS

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

INUM: 18758
CLSS: U
CORP: GENERAL ELECTRIC CO., REENTRY SYSTEMS DEPT. (PHILADELPHIA, PA.)
DATE: 6604
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
DESC: SIMULATION (LINAC PULSED REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: 66 SD 2015
SUJO: 3-221-000
TITL: RADIATION TEST RESULTS ON TRANSISTORS (U), 62 P., (U)
TREE: 310


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18758

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copy: 1 id: 51534-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18773
AUTH: COLEMAN G.H.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6502
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 12431
SHOT: DUFFER
TSHO: UG-CONTAINED
SOCE: 
SUJO: 4-835-000 ; 4-836-000
TEMP: A6591
TITL: CLASSIFIED TITLE (U) 66 P., (SRD)

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18773

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copy: 1 id: 51549-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18774
AUTH: NETHAWAY D.R.
CLSS: SRD
CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6504
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
REPN: UCRL 14104
SHOT: OCONTO
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6592
TTTL: RADIOCHEMICAL DIAGNOSTICS MEASUREMENTS ON THE OCONTO EVENT
-OPERATION NIBLICK (U) 41 P., (SRD)

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copy: 1 id: 51550-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18775
AUTH: HICKS H.G.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6505
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
REPN: UCRL 14145
SHOT: BYE
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6593
TTTL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE BYE EVENT -OPERATION
WHETSTONE (U) 108 P., (SRD)

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.endblock

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

.endblock

INUM: 18776
AUTH: HOFF R.W.
CLSS: SRD
CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6505
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
L5
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon test yield L1
REPN: UCRL 14129
SHOT: ACE
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 2-627-000 ; 4-835-000 ; 4-836-000
TEMP: A6594
TTTL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE ACE EVENT -OPERATION
NIBLICK (U) 133 P., (SRD)

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18776
.endblock

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copy: 1 id: 51552-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18777
AUTH: CROOKS E.P.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6505
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: TABULAR
REPN: UCRL 14199
SHOT: WISHBONE
SOCE: [REDACTED]
SUJO: 4-836-000
TEMP: A6595
TTTL: CLASSIFIED TITLE (U) 18 P., (SRD)

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18777
.endblock

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

INUM: 18778
AUTH: BENEDICT N.D.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6602
DESC: EXPERIMENTAL
DESC: Nuclear weapon safety operational in-field use reliability broken
arrows L1
REPN: UCRL 14710
SOCE: MK 45 Y-1
SUJO: 4-838-600
SYST: TERRIER
TEMP: A6596
TTTL: LRL PARTICIPATION IN WARHEAD RECOVERY IN THE INCIDENT ABOARD THE USS
LUCE DLG 7 ON 19 JANUARY 1966 (U), 17 P., (SRD)

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18778
.endblock

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

INUM: 18779
AUTH: DAROZA R.A.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6602
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
L1

DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
REPN: UCRL 14484
SHOT: SALMON
TSHO: UG-CONTAINED
SUJO: 2-223-100 ; 2-627-000 ; 4-835-000
TEMP: A6597
TTTL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE SALMON EVENT OF PROJECT
DRIBBLE (U) 16 P., (SRD)

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18779
.endblock

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copy: 1 id: 51555-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18780
AUTH: MODE V.A.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6604
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
REPN: UCRL 14721
SHOT: CHENA
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6598
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE CHENA EVENT OF
OPERATION NOUGAT (U) 46 P., (SRD)

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18780
.endblock

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copy: 1 id: 51556-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18781
AUTH: HICKS H.G.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6604
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

REPN: UCRL 14686
SHOT: ELKHART
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6599
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE ELKHART EVENT OF
OPERATION FLINTLOCK (U) 65 P., (SRD)

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18781
.endblock

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copy: 1 id: 51557-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18782
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.) ; SANDIA CORP.
(LIVERMORE, CA.)
DATE: 6606
DESC: Nuclear weapon test device physical operation construction geometry
materials components L5 ADM PROPOSED
DESC: TABULAR SUMMARY
DESC: Nuclear Warfare Theater systems buried munitions ADM SADM L1

DESC: Nuclear Warfare Theater cost studies L1
REPN: UCRL 14943
SUJO: 3-410-800 ; 3-413-100 ; 4-836-000
TEMP: A6600
TTTL: PROPOSALS FOR A MODERN FISSION ADM (U) 22 P., (SRD)

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18782

.endblock

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copy: 1 id: 51558-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18783
AUTH: HICKS H.G.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6606
DESC: Nuclear weapon test device physical operation construction geometry

materials components L1

DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
REPN: UCRL 14741
SHOT: HARLEM
TSHO: LOW-ALT

SOCE: 
SUJO: 4-835-000 ; 4-836-000
TEMP: A6601

TTTL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE HARLEM EVENT OF
OPERATION DOMINIC(U), 68 P., (SRD)

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18783

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

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INUM: 18784
AUTH: MILLER L.D.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6606
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry

materials components L1

REPN: UCRL 14950
SHOT: IZZER
TSHO: UG-CONTAINED
SOCE: 
SUJO: 4-835-000 ; 4-836-000

TEMP: A6602
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE IZZER EVENT OF
OPERATION FLINTLOCK (U) 46 P., (SRD)

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.endblock

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copy: 1 id: 51560-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18785
AUTH: NETHAWAY D.R.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6606
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon test yield L1
DESC: EXPERIMENTAL
REPN: UCRL 14949
SHOT: EMERSON
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
SYST: [REDACTED]
TEMP: A6603
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE EMERSON EVENT OF
OPERATION FLINTLOCK (U) 42 P., (SRD)

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

.endblock

INUM: 18786
AUTH: HUTCHIN W.H.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6606
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
REPN: UCRL 14952
SHOT: TICKING
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6604

TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE TICKING EVENT OF
OPERATION FLINTLOCK (U) 34 P., (SRD)

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created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18787

AUTH: PYPYER J.W.

CLSS: SRD

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6607

DESC: EXPERIMENTAL

DESC: Nuclear weapon test yield L1

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

REPN: UCRL 14764

SHOT: ORGANDY

TSHO: UG-CONTAINED

SOCE: [REDACTED]

SUJO: 4-835-000 ; 4-836-000

TEMP: A6605

TITL: CLASSIFIED TITLE, 73 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18788

AUTH: LEVY H.B.

CLSS: SRD

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6609

DESC: Nuclear weapon test yield L1

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: EXPERIMENTAL

REPN: UCRL 14609

SHOT: TEE

TSHO: UG-CONTAINED

SOCE: [REDACTED]

SUJO: 4-835-000 ; 4-836-000

TEMP: A6606

TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE TEE EVENT OF OPERATION
WHETSTONE (U) 46 P., (SRD)

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copy: 1 id: 51564-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18789
AUTH: ZELIGMAN M.M.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6611
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: EXPERIMENTAL
REPN: UCRL 14763
SHOT: MARSHMALLOW
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
SYST: [REDACTED]
TEMP: A6607
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE MARSHMALLOW EVENT OF
OPERATION NOUGAT (U) 26 P., (SRD)

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copy: 1 id: 51565-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18790
AUTH: BARTON G.W.JR.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6612
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 14683
SHOT: TWEED
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6608
TITL: RADIOCHEMISTRY DIAGNOSTIC MEASUREMENTS ON THE TWEED EVENT OF
OPERATION WHETSTONE (U) 89 P., (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 18791
AUTH: BAZAN F.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6612
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon test yield L1
DESC: EXPERIMENTAL
REPN: UCRL 14816
SHOT: DILUTED WATERS
TSHO: UG-CONTAINED
SOCE: XXXXXXXXXX
SUJO: 4-835-000 ; 4-836-000
TEMP: A6609
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE DILUTED WATERS EVENT OF
THE WHETSTONE PROGRAM (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: 18809
AUTH: HANSEN F.T.
CLSS: SRD
CORP: SANDIA CORPORATION (ALBUQUERQUE, N.M.)
DATE: 6507
DESC: EXPERIMENTAL
DESC: Nuclear weapon safety EM pickup EMR RF hazards L1
REPN: SC DR 64 1214 ; RS 3410/402
SOCE: MK 52 MOD 2
SUJO: 4-838-400
TEMP: A6318
TITL: REPORT OF ELECTROMAGNETIC RADIATION TESTS OF THE MK 52 MOD 2 WARHEAD
(U), 38 P., (SRD)

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copy: 1 id: 51585-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18935
AUTH: GOLDMAN D.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6605
DESC: Nuclear weapon safety criticality studies L5
DESC: TABULAR
DESC: Nuclear weapon safety radiological L1
REPN: UCRL 50104
SUJO: 4-838-100 ; 4-838-900
TEMP: A6825
TITL: CONSTRAINTS ASSOCIATED WITH THE PLUTONIUM DISPERSAL HAZARD -A
SUMMARY REPORT (U) 31 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: 19190

ABS: This report supersedes BRLM 1699. Data and conclusions are presented concerning the effectiveness of radiological shielding for armored vehicles. Radiation kill probabilities are displayed graphically for five tactical situations, two types of nuclear sources, two weapon delivery dispersions, three nuclear shielding configurations and five weapon yields. Total kill probabilities are displayed for each tactical situation as well as for the "average" deployment.

ADNO: 373455

AUTH: LESLIE F.E.

CLSS: S

CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)

DATE: 6601

DESC: TABULAR

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: Target Analysis military forces L1

DESC: Nuclear Weapon Effects land transport armored vehicles L1 CREW DOSE

FILL PROBABILITIES

REPN: BRL MR 1726

SUJO: 3-151-000 ; 3-312-100 ; 3-432-000

TEMP: A6901

TITL: EFFECTIVENESS OF RADIOLOGICAL SHIELDING FOR ARMORED VEHICLES IN
SMALL UNIT ACTIONS (U) 100 P., (S)

TNFF: 5602

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19204
AUTH: HUDSON C.I.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6501
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: TABULAR
REPN: UCID 4855
TSHO: SURFACE
SUJO: 2-223-420
TEMP: A6981
TITL: CLASSIFIED TITLE (U) 38 P., (SRD)

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copy: 1 id: 51986-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19220
AUTH: MCCURNIN T.W. ; PERPER L.J. ; BATTISTELLI J.J.
CLSS: U
CONN: N 00 228 66 C 1055
CORP: ELECTRO TECHNICAL ANALYSIS CORP. (TUCSON, AZ.)
DATE: 6611
DESC: THEORY
DESC: test instruments nuclear radiation gamma L1 RADIAC SIMULATOR
DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation L1 RF GENERATOR
REPN: NRDL TRC 87
SUJO: 4-242-000 ; 4-341-000
TITL: RADIATION ENVIRONMENT SYSTEM (RADIO-FREQUENCY TYPE); FINAL REPORT
(U), 126 P., (U)

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copy: 1 id: 52002-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19251
AUTH: HUNTER L.T.
CLSS: U
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 6500
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
DESC: SIMULATION (LINAC) ; EXPERIMENTAL

EFFT: TREE
REPN: D2 90607 2 VOL. 2
SUJO: 3-221-000
TITL: SABRE RADIATION EFFECTS DATA BOOK, VOL. 2 (U), CA. 300 P., (U)
TREE: 310

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19251
.endblock

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copy: 1 id: 52038-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19351
CLSS: SRD
CORP: EG+G, INC. (LAS VEGAS, NV.)
DATE: 6506
DESC: Nuclear Weapon Environment fallout transport L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: EXPERIMENTAL
REPN: 11P 65
SHOT: DILUTED WATERS
TSHO: UG-CONTAINED
SUJO: 2-223-200 ; 2-224-200
TEMP: A7071
TITL: AERIAL RADIOLOGICAL MONITORING NEVADA TEST SITE (U), 36 P., (SRD)

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copy: 1 id: 52114-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19469
AUTH: RENKEN J.H.
CLSS: SRD
CORP: SANDIA LABORATORIES (ALBUQUERQUE, NM.)
DATE: 6605
DESC: THEORY
DESC: Nuclear Weapon Environment X-ray Output rate L1
DESC: Radiation Transport x-ray L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
REPN: SC WD 66 252 ; RS 3410/816
SUJO: 1-620-000 ; 1-640-000 ; 9-640-000
TEMP: A7164
TITL: CLASSIFIED TITLE (U) 33 P., (SRD)
TREE: 930

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19469
.endblock
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copy: 1 id: 52229-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19470
AUTH: MCGUIRE E.J.
CLSS: SRD
CORP: SANDIA CORPORATION (ALBUQUERQUE, NM.)
DATE: 6611
DESC: Radiation Transport x-ray L1
DESC: Cross Sections x-ray L1
DESC: THEORY
REPN: SC WD 66 627 ; RS 3410/868
SUJO: 9-640-000 ; 9-840-000
TEMP: A7165
TITL: COMPTON SCATTERING FROM RELATIVISTIC ELECTRONS (U), 19 P., (SRD)
TREE: 980

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19470
.endblock

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copy: 1 id: 52230-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19546
ABS: "First order" procedures are developed for umpiring the effect on naval ships of fallout from one or several water-surface nuclear bursts. These procedures include reference to fallout-dose predictions by the NRDL dynamic fallout model (D-MODEL) and to tables of radiological countermeasure effectiveness and of radiation-transmission factors for various ship types. Umpiring procedures were applied to an aircraft carrier and its screen ships in tactically appropriate situations with specific weapon yields and winds considered. Combat ineffectives among the ships crews, are estimated with washdown, deep shelter, and manual decontamination countermeasures implemented. The fallout hazard from a water-surface burst versus that from a land-surface burst for short distances from Ground Zero is estimated.
ABS: These estimates must be considered tentative pending further confirmation of the water-surface burst radioactivity-vs-particle-diameter distribution used in the D-MODEL.
AUTH: SMITH J.T. ; SHEEHAN J.R.
CLSS: C
CORP: NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO, CA.)
DATE: 6501
DESC: TABULAR
DESC: Nuclear Weapon Effects ship systems surface ships L1 CREW DOSE
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic external L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
EFFT: GAMMA

REPN: NRDL TR 814
TSHO: WATER-SURFACE
SUJO: 2-223-200 ; 3-122-000 ; 3-312-210
TEMP: A7373
TITL: PRELIMINARY EVALUATION OF THE HAZARD TO A TASK FORCE AT SEA FROM
WATER-SURFACE-BURST FALLOUT (U), 45 P., (C)

TNFF: 4860

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copy: 1 id: 52304-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19612

AUTH: RENKEN J.H.

CLSS: CRD

CORP: SANDIA CORPORATION (ALBUQUERQUE, NM.)

DATE: 6509

DESC: THEORY

DESC: Atomic Molecular Physics Chemistry L1

REPN: SC RR 65 436

SUJO: 9-020-000

TEMP: A7310

TITL: FLUORESCENCE RADIATION FROM PHOTOELECTRIC ABSORBERS (U), 25 P.,
(CRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19742

AUTH: HAAVE C.R. ; ZMUDA A.J. ; SHAW B.W.

CLSS: U

CONN: NOW 62 0604 C (BNW)

CORP: APPLIED PHYSICS LABORATORY (SILVER SPRING-MARYLAND)

DATE: 6506

DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping

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

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

DESC: Nuclear Weapon Effects EM Propagation phase change

DESC: SILVER SPRING MARYLAND BOULDER COLORADO CUTLER MAINE RUGBY ENGLAND
CANAL ZONE HONOLULU HAWAII ANCHORAGE ALASKA SATELLITE (EXPLORER14)
SATELLITE (ALOUETTE) SATELLITE (TELSTAR) SATELLITE (EXPLORER 15) ;
EXPERIMENTAL

SHOT: RUSSIAN (62-10-22) ; RUSSIAN (62-10-28)

TSHO: HI-ALT
SUJO: 2-212-000 ; 2-213-000 ; 2-217-000 ; 2-321-400
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 70, NUMBER 17 (U), P
4191-4218, SEPTEMBER 1, 1965
TITL: VERY LOW FREQUENCY PHASE PERTURBATIONS AND THE SOVIET HIGH-ALTITUDE
NUCLEAR BURSTS OF OCTOBER 22 AND 28, 1962, 1. OBSERVATIONS AND
INFERRED RADIATION BELTS, 2. COMPARISON WITH SATELLITE PARTICLE DATA
(U), 28 P (U)

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copy: 1 id: 52525-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19748
AUTH: THEIN M. ; KURODA P.K.
CLSS: U
CORP: UNIVERSITY OF ARKANSAS (FAYETTEVILLE-ARKANSAS)
DATE: 6612
DESC: FAYETTEVILLE ; EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout transfer
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
SHOT: cpr(65-05-14) ; ARKANSAS
TSHO: LOW-ALT
SUJO: 2-223-410 ; 2-224-300
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 72, NUMBER 6 (U), P
1673, MARCH 15, 1967
TITL: GLOBAL CIRCULATION OF RADIOCERIUM ISOTOPES FROM THE MAY 14, 1965
NUCLEAR EXPLOSION (U), 8 P (U)

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copy: 1 id: 52531-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19750
AUTH: A.E. SHERWOOD
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6610
DESC: THEORY
DESC: Nuclear Weapon Environment Ground Shock throwout projectiles
SUJO: 2-626-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 72, NUMBER 6 (U), P
1783, MARCH 15, 1967
TITL: EFFECT OF AIR DRAG ON PARTICLES EJECTED DURING EXPLOSIVE CRATERING
(U), 9 P (U)

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19750

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copy: 1 id: 52533-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19755

AUTH: VIECELLI J.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)

DATE: 6610

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Weapon Environment acoustic waves noise focusing

SHOT: SEDAN ; SCOOTER

TSHO: UG-VENTED ; SURFACE

SUJO: 2-617-000

SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 72, NUMBER 10 (U), P
2469, MAY 15,1967

TITL: ATMOSPHERIC REFRACTION AND FOCUS OF BLAST WAVES (U), 14 P (U)

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copy: 1 id: 52538-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19757

AUTH: HASKELL N.A.

CLSS: U

CORP: AIR FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MASSACHUSETTS)

DATE: 6612

DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity

DESC: THEORY

SUJO: 2-621-000

SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 72, NUMBER 10 (U), P
2583, MAY 15,1967

TITL: ANALYTIC APPROXIMATION FOR THE ELASTIC RADIATION FROM A CONTAINED
UNDERGROUND EXPLOSION (U), 5 P (U)

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19757

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19758

AUTH: FEELY H.W.

CLSS: U
CORP: ISOTOPES INCORPORATED (WESTWOOD-NEW JERSEY)
DATE: 6611
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
SHOT: cpr(65-10-16)
SUJO: 2-223-410
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 72, NUMBER 12 (U), P
3295, JUNE 15, 1967
TITL: DISCUSSION OF THE PAPER BY J.N. BECK AND P.K. KURODA, RADIOSTRONTIUM
FALLOUT FROM THE NUCLEAR EXPLOSION OF OCTOBER 16, 1964 (U), 5 P (U)

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

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INUM: 19893
AUTH: HASKO J. ; GREBERT J. ; LICHTENBERGER F.
CLSS: C
CORP: PICATINNY ARSENAL (DOVER, N.J.)
DATE: 6501
DESC: Nuclear weapon safety EM pickup EMR RF hazards L1
DESC: Nuclear weapon test placement including cab construction for actual
detonation L5
DESC: EXPERIMENTAL
REPN: SMUPA TK 918
SUJO: 4-833-000 ; 4-838-400
SYST: SERGEANT
TEMP: A7465
TITL: ELECTROMAGNETIC RADIATION (EMR) HAZARD TEST, (PHASE I), OF THE
SERGEANT XM71 FUZING SECTION (U), 123 P., (S)

TNFF: 8850

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copy: 1 id: 52705-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19946
ABS: The purpose of this manual is to prescribe operating procedures and
precautions to prevent spurious initiation of electroexplosive
devices in ordnance, injury to personnel and spark ignition of fuel
vapor from environmental radio-frequency fields. This manual cancels
and supersedes NAVWEPS 16-1-529, second revision of 15 April 1966
and all other BUWEPS directives previously issued on the subject of
restrictions necessary to minimize the Hazards of Electromagnetic
Radiation to Ordnance (HERO). Methods and formulae for calculating

field intensities at shore stations are provided in Appendix B. Methods for calculating field intensities at shore stations are provided in Appendix B. Methods for calculating field intensities aboard ship will be provided in a future change or revision to the manual.

ABS: This manual provides a sample HERO EMCON bill in Chapter 1, Section 1-5 and Appendix C for purposes of clarification of the use of this manual aboard a specific ship or shore station. To assist in the evaluation of the risk involved in handling a "restricted weapon", data sheets explaining the nature of susceptibility and curves showing susceptibility as a function of frequency and field strength or power density are included.

CLSS: CFRD
CORP: NAVAL ORDNANCE SYSTEMS COMMAND
DATE: 6604
DESC: HANDBOOK
DESC: Nuclear Weapon Effects on animals RF microwave L1
DESC: Nuclear weapon safety EM pickup EMR RF hazards L1 HERO
REPN: NAVORD OP 3565 ; NAVAIR 16 1 529
SUJO: 3-314-000 ; 4-838-400
TEMP: A7415
TITL: TECHNICAL MANUAL RADIO FREQUENCY HAZARDS TO ORDNANCE, PERSONNEL, AND FUEL (U),CA. 100 P., (CFRD)

TNFF: 8850

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

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INUM: 20252
CLSS: U
CORP: FEDERAL RADIATION COUNCIL
DATE: 6505
DESC: SUMMARY
DESC: Nuclear Weapon Environment fallout accumulation rate L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

REPN: FRC 7

SUJO: 2-225-400 ; 3-312-220

TITL: BACKGROUND MATERIAL FOR THE DEVELOPMENT OF RADIATION PROTECTION STANDARDS; PROTECTIVE ACTION GUIDES FOR STRONTIUM-89, STRONTIUM-90 AND CESIUM-137 (U), 44 P., (U)

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

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INUM: 20307
ADNO: 627323
AUTH: BARRETT T.B. ; CARPENTER J.W.
CLSS: U
CONN: AF 19 (628) 349
CORP: AMERICAN SCIENCE AND ENGINEERING, INC. (CAMBRIDGE, MA.)
DATE: 6510
DESC: test instruments IR L1
DESC: test instruments visible L1 AFCRL KC-135
DESC: SUMMARY
REPN: ASE 1111 ; AFCRL 65 801
SUJO: 4-382-000 ; 4-383-000
TITL: RESEARCH DIRECTED TOWARD THE STUDY OF NUCLEAR RADIATION (U), 107 P.,
(U)

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copy: 1 id: 53301-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20309
AUTH: RAMSTEDT C.F.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6501
DESC: test instruments nuclear radiation proton alpha heavy particle L1
DESC: test instruments nuclear radiation gamma L1
DESC: test instruments EM propagation atmospheric chemistry direct probes
L1
REPN: NRDL TR 812
SUJO: 4-327-000 ; 4-341-000 ; 4-343-000
TITL: FACTORS IN CALIBRATION OF SPACE RADIATION MEASURING SYSTEMS (U), 54
P., (U)

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

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INUM: 20337
AUTH: BROWN B.
CLSS: U
CONN: AT (04 3) 414
CORP: RAND CORP (SANTA MONICA, CA.)
DATE: 6612
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: SUMMARY
REPN: RM 5084 TAB

SUJO: 3-312-000
TITL: LONG-TERM RADIATION DAMAGE--EVALUATION OF LIFE-SPAN STUDIES (U), 66
P., (U)

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copy: 1 id: 53326-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20338
AUTH: OKUNEWICK J.P.
CLSS: U
CONN: AT (04 3) 414
CORP: RAND CORP. (SANTA MONICA, CA.)
DATE: 6610
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: SUMMARY
REPN: RM 5048 TAB
SUJO: 3-312-000
TITL: RELATIONSHIP BETWEEN POST-IRRADIATION RECOVERY AND EQUIVALENT
RESIDUAL DOSE (U), 29 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20353
AUTH: VANZANT B.W. ; DEHART R.C.
CLSS: U
CONN: DA 49 129 ENG 504
CORP: SOUTHWEST RESEARCH INSTITUTE (SAN ANTONIO, TX.)
DATE: 6606
DESC: Nuclear Weapon Effects structures underground L1
DESC: Nuclear Weapon Environment Prompt Neutrons L5
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5
DESC: Nuclear Weapon Environment Initial Gamma L5
DESC: PROMPT GAMMA AND NEUTRONS AND DELAYED GAMMA WEAPON OUTPUT SUMMARIES
; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5
EFFT: NEUTRON ; GAMMA
REPN: SWRI 1
TSHO: SURFACE ; LOW-ALT
SUJO: 1-100-000 ; 1-700-000 ; 2-223-200 ; 2-225-100 ; 3-260-000
TITL: PENETRATION OF NUCLEAR RADIATION INTO SHAFTS, TUNNELS AND
ENTRANCE-WAYS (U), 158 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20357
AUTH: MOSKALEV Y.I.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6600
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
REPN: AEC TR 6944 REV.
SUJO: 3-312-220
TITL: DISTRIBUTION AND BIOLOGICAL EFFECTS OF RADIOACTIVE ISOTOPES (U), 718
P., (U)

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

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INUM: 20368
ADNO: 631589
AUTH: DOWLING J.H.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6602
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRRI SR66 3
SUJO: 3-312-100
TITL: EXPERIMENTAL DETERMINATION OF DOSE FOR THE MONKEY IN A REACTOR PULSE
ENVIRONMENT (U), 42 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20369
AUTH: LAVRENCHIK V.N.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION

DATE: 6500
DESC: Nuclear Weapon Phenomenology cloud Motion L1
DESC: Nuclear Weapon Environment Fallout Radioproperties L1
DESC: SUMMARY
DESC: Nuclear Weapon Environment fallout Deposition L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
REPN: AEC TR 6666
SUJO: 2-223-000 ; 2-224-000 ; 2-225-000 ; 3-312-200
TITL: GLOBAL FALLOUT PRODUCTS OF NUCLEAR EXPLOSIONS (U), 189 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20376
AUTH: BAIR W.J. ; PARK J.F. ; CLARKE W.J.
CLSS: U
CONN: D.O. (29 601) 62 1507
CORP: BATTELLE MEMORIAL INSTITUTE (RICHLAND, WA.)
DATE: 6603
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: EXPERIMENTAL
REPN: AFWL TR 65 214
SUJO: 3-312-220
TITL: LONG-TERM STUDY OF INHALED PLUTONIUM IN DOGS (U), 64 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20386
AUTH: DUNHAM C.L.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION, TECHNICAL INFORMATION SERVICE (OAK RIDGE,
TN.)

DATE: 6600
DESC: Nuclear Weapon Environment fallout Deposition L1
DESC: Nuclear Weapon Phenomenology cloud Motion L1
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic L1
DESC: SUMMARY
DESC: Nuclear Weapon Environment Fallout Radioproperties L1
REPN: AEC M 6645
SUJO: 2-223-000 ; 2-224-000 ; 2-225-000 ; 3-332-200
TITL: FALLOUT FROM NUCLEAR WEAPONS TESTS (U), 15 P., (U)

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cat1: cat2: home: STACKS current: STACKS

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INUM: 20396

ADNO: 637548

AUTH: MARION J.B.

CLSS: U

CONN: DA 49 146 XZ 230

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 6601

DESC: SUMMARY

DESC: Simulation Facilities Techniques biomedical nuclear radiation L1

REPN: AFRRI CR 66 4

SUJO: 4-251-000

TITL: FACILITIES FOR HIGH-INTENSITY NEUTRON IRRADIATION (U), 65 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20403

ADNO: 640734

AUTH: BAUM S.J.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 6607

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

EFFT: X-RAY

REPN: AFRRI SP 66 16

SUJO: 3-312-100

TITL: MODEL FOR POSTRADIATION STEM CELL KINETICS (U), 12 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20405

AUTH: STANLEY R.E. ; CRAMER M.B.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 6612

DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
REPN: AFRI SR 66 1
SUJO: 3-312-100
TITL: HEMATOLOGY OF THE MONKEY (MACACA MULATTA) (U), 18 P., (U)

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

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INUM: 20406
ADNO: 631661
AUTH: SEIGNEUR L.J. ; BRENNAN J.T.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6602
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRI SR 66 2
SUJO: 3-312-100
TITL: INCAPACITATION IN THE MONKEY (MACACA MULATTA) FOLLOWING EXPOSURE TO
A PULSE OF REACTOR RADIATIONS (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: 20412
ADNO: 635086
AUTH: BAUM S.J.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6605
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: X-RAY
REPN: AFRI SR 66 4
SUJO: 3-312-100
TITL: ERYTHROCYTE STEM CELL KINETICS IN THE POSTRADIATION RAT (U), 25 P.,
(U)

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20412

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copy: 1 id: 53393-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20449
AUTH: BAUM S.J.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6610
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
EFFT: X-RAY
REPN: AFRRRI SR 66 6
SUJO: 3-312-210
TITL: MEASURE OF NONREPARABLE INJURY TO HEMATOPOIETIC STEM CELLS IN RATS
EXPOSED REPEATEDLY TO X-RAYS (U), 15 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20450
AUTH: WEBSTER J.B.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6610
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: X-RAY
REPN: AFRRRI SR 66 5
SUJO: 3-312-100
TITL: EFFECT OF ORAL NEOMYCIN THERAPY FOLLOWING WHOLE-BODY X-IRRADIATION
OF RATS (U), 17 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20562
ABS: This manual provides guidance for training, equipping, and utilizing
emergency teams for nuclear accident radiological contamination
control. Specific guidance is provided for CBR alpha and
radiological control (RADCON) teams, but the general principles
presented apply to all special teams and personnel concerned with
nuclear accident control. This manual covers procedures and
techniques for reducing radiation hazards resulting from nuclear

accidents and the control procedures applicable in relatively small areas that contain hazardous levels of radiological contamination. It describes procedures and practices for detecting, identifying, measuring, controlling, and decontaminating radiological contamination and specifies the levels of radiological contamination that are significant both during recovery operations and after decontamination at a nuclear accident site.

ABS: FM 3-12 and TM 5-225 outline the procedures that are applicable to large areas of radiological contamination. This manual is designed primarily for peacetime operations. It is also applicable in wartime except that in nuclear warfare, alpha contamination is not considered militarily significant.

CLSS: U
CORP: ARMY HEADQUARTERS
DATE: 6606
DESC: SUMMARY
DESC: Nuclear Warfare Postattack Recovery decontamination L1
REPN: FM 003 15
SUJO: 3-448-900
TITL: NUCLEAR ACCIDENT CONTAMINATION CONTROL (U), 67 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20577
ADNO: 631189
AUTH: MOBLEY T.S. ; GODDEN W.R. ; DEBOER J.
CLSS: U
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 6603
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: X-RAY ; GAMMA
REPN: AFWL TR 65 200
SUJO: 3-312-100
TITL: MEDIAN LETHAL DOSE (LD-50/60) STUDIES IN SHEEP FOLLOWING 250-KVP X-IRRADIATION (U), 32 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20578
ADNO: 465615
AUTH: ELLIOTT D.D.

CLSS: U
CONN: AF 04 (695) 469
CORP: AEROSPACE CORP. (EL SEGUNDO, CA.)
DATE: 6505
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
DESC: THEORY
REPN: TDR 469 (5260 20) 4 ; SSD TR 65 55
SUJO: 2-217-000 ; 2-420-000
TITL: INFLUENCE OF SYNCHROTRON RADIATION ON LONG-TERM DECAY OF TRAPPED
ENERGETIC ELECTRONS (U), 17 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20591
AUTH: LESSLER R.M. ; GUY F.W.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6504
DESC: Cross Sections neutron L1 NTS SOIL GRANITE SEAWATER
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: TABULAR
REPN: UCRL 12407
SUJO: 2-223-200 ; 9-820-000
TITL: NEUTRON-INDUCED ACTIVITY IN EARTH AND SEAWATER FROM BURIED AND
SURFACE NEUTRON SOURCES (U), 63 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20602
AUTH: TURNER F.B. ; ROWLAND R.H. ; WOOD R.A.
CLSS: U
CONN: AT (04 1) GEN 12
CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES, CA.)
DATE: 6604
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: EXPERIMENTAL
SHOT: SEDAN
TSHO: SURFACE
SUJO: 3-312-220

TITL: NUCLEAR ENGINEERING AND WILDLIFE--RADIOACTIVITY IN JACKRABBITS AFTER THE SEDAN TEST (U), 11 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 20654

AUTH: MEDVEDEV Y.A. ; STEPANOV B.M. ; FEDOROVICH G.V.

CLSS: U

DATE: 6607

DESC: THEORY

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

EMPF: 223

TSHO: SURFACE

SUJO: 2-510-000

SYMJ: SOVIET PHYSICS -TECHNICAL PHYSICS; VOL. 12, NO. 11, P. 1534, MAY, 1968

TITL: ELECTROMAGNETIC FIELD OF A POINT SOURCE OF LONG-RANGE RADIATION IN AIR ABOVE A CONDUCTING SHIELD (U), 3 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20665

AUTH: FRENCH R.L.

CLSS: U

CONN: DA 49 146 XZ 254

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 6511

DESC: EXPERIMENTAL

DESC: Simulation Facilities Techniques nuclear radiation fallout simulation L1

REPN: AFRRI CR65 2 ; RRA T45

SUJO: 4-242-000

TITL: COMPARATIVE STUDY OF RADIOACTIVE SOURCE ARRANGEMENTS FOR SIMULATING FALLOUT GAMMA RADIATION FIELDS (U), 111 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20702
AUTH: JOHN F.I. ; PASSELL T.O.
CLSS: U
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA.)
DATE: 6608
DESC: Nuclear Weapon Effects materials wood paper cellulose films L5 PAPER
WOOD
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L5
DESC: THEORY
DESC: Nuclear Warfare Strategic operations scenarios battlefield
environment L5
DESC: Nuclear Weapon Effects structures aboveground interior furnishings
L1
DESC: Radiation Transport thermal L5
DESC: Nuclear Weapon Effects structures aboveground components L1
DESC: Nuclear Weapon Effects structures aboveground cities L5
DESC: Nuclear Weapon Effects materials fibers textiles L5 WOOL COTTON
CLOTHING
EFFT: THERMAL
REPN: SRI 4949 360 66 8
SUJO: 1-210-000 ; 3-242-000 ; 3-246-000 ; 3-251-100 ; 3-251-200 ;
3-252-000 ; 3-421-200 ; 9-610-000
TITL: EVALUATION OF NUCLEAR WEAPON THERMAL THREAT (U), 86 P., (U)
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created: 12/27/1991 type: REPORT permanent
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INUM: 20725
CLSS: U
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN.) ; OAK RIDGE ASSOCIATED
UNIVERSITIES, INC. (OAK RIDGE, TN.)
DATE: 6600
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
REPN: CONF 660815
SUJO: 3-312-000
TITL: PROCEEDINGS FOR THE CONFERENCE ON PRINCIPLES OF RADIATION
PROTECTION, AUGUST 24-26, 1966, OAK RIDGE, TENNESSEE (U), 172 P.,
(U)
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created: 12/27/1991 type: REPORT permanent
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INUM: 20738
AUTH: MARION J.B.
CLSS: U
CONN: DA J9 146 XZ 230
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6601
DESC: Simulation Facilities Techniques biomedical nuclear radiation L1
DESC: Simulation Facilities Techniques TREE L1
DESC: EXPERIMENTAL
REPN: AFRRI CR 66 3
SUJO: 4-251-000 ; 4-272-000
TITL: LOW VOLTAGE D-T NEUTRON SOURCE (U), 89 P., (U)
TREE: 642

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INUM: 20819
AUTH: BUDKA A.J. ; DOLCE T.J.
CLSS: U
CCDE: GRATIS (GAMMA TRANSPORT) BRL
CORP: ARMY BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 6509
DESC: Cross Sections gamma L1 CONCRETE
DESC: Radiation Transport gamma L1
DESC: THEORY TABULAR
REPN: BRL R 1307
SUJO: 9-620-000 ; 9-830-000
TITL: SECONDARY GAMMA RAY TRANSMISSION THROUGH PLANE SLABS OF CONCRETE
(U), 139 P., (U)
TREE: 960 ; 411

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created: 12/27/1991 type: REPORT permanent

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INUM: 20825
AUTH: SHERMAN M.P.
CLSS: U
CORP: GENERAL ELECTRIC, MISSILE AND SPACE DIV. (KING OF PRUSSIA, PA.)
DATE: 6606
DESC: Radiation Transport x-ray L1
DESC: THEORY
REPN: R 66 SD 30
SUJO: 9-640-000

TITL: MOMENT METHODS IN RADIATIVE TRANSFER PROBLEMS (U), 38 P., (U)
TREE: 980

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created: 12/27/1991 type: REPORT permanent
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INUM: 20976
ADNO: 623904
AUTH: VAN LINT V.A.J. ; OVERMYER R.F. ; NICHOLS D.K.
CLSS: U
CONN: DA 36 039 SC 89196
CORP: GENERAL ATOMIC (SAN DIEGO, CA.)
DATE: 6507
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1
DESC: SIMULATION (TRIGA) ; THEORY EXPERIMENTAL
EFFT: TREE
REPN: GA 6534
SUJO: 3-229-000 ; 3-231-000
TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONIC PARTS (U), 78 P., (U)
TREE: 390 ; 370 ; 385

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created: 12/27/1991 type: REPORT permanent
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INUM: 21195
ADNO: 635088
AUTH: ANDRUSHIS J.
CLSS: U
CORP: LIBRARY OF CONGRESS, AEROSPACE TECHNOLOGY DIV. (WASH., D.C.)
DATE: 6604
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects materials not systems associated L1
EFFT: NEUTRON ; GAMMA
REPN: ATD 66 43
SUJO: 3-240-000
TITL: RADIATION DAMAGE IN SOLIDS; COMPILATION OF ABSTRACTS (U), 186 P.,
(U)

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21195
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copy: 1 id: 54004-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 21214
AUTH: SMITH R.J.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION, TECHNICAL INFORMATION EXTENSION (OAK
RIDGE, TN.)
DATE: 6511
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1
DESC: BIBLIOGRAPHY
REPN: TID 3571 (SUPPL. 1)
SUJO: 4-241-000
TITL: PULSED REACTORS AND PULSED CRITICAL ASSEMBLIES; A LITERATURE SEARCH
(U), 49 P., (U)
TREE: 642

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created: 12/27/1991 type: REPORT permanent
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INUM: 21215
AUTH: WALLACE J.G.
CLSS: U
CONN: AF 04 (694) 838
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 6600
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: TREE
REPN: D2 90607 3
SUJO: 3-221-000
TITL: SABRE RADIATION EFFECTS DATA BOOK; VOL. 3 (U), CA. 160 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: 21219
AUTH: LONG D.M. ; FLESCHER H.L. ; HARRISON S.E.
CLSS: U
CONN: DA 28 043 AMC 01520(E)

CORP: MARTIN CO. (BALTIMORE, MD.)
DATE: 6604
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
MOS IC-S
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MOS TRANSISTORS
EFFT: TREE
REPN: ECOM 01520 1
SUJO: 3-221-000 ; 3-222-000
TITL: RADIATION EFFECTS ON INSULATED GATE FIELD EFFECT (MOS) INTEGRATED
CIRCUITS; PROGRESS REPORT (U), 62 P., (U)
TREE: 320 ; 310

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 21221
AUTH: BRANDHORST H.W. JR. ; HART R.E. JR.
CLSS: U
CORP: LEWIS RESEARCH CENTER (CLEVELAND, OH.)
DATE: 6507
DESC: SIMULATION (CYCLOTRON COCKCROFT -WALTON ACCELERATOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1
EFFT: BETA ; PROTON
REPN: NASA TN D 2932
SUJO: 3-223-000
TITL: RADIATION DAMAGE TO CADMIUM SULFIDE SOLAR CELLS (U), 16 P., (U)
TREE: 362

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21221
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copy: 1 id: 54028-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 21584
ADNO: 473334
AUTH: SCHUMCHYK M.J. ; REXROAD R.E. ; SCHMOKE M.A. ; HAMPTON W.C.
CLSS: U
CORP: ARMY NUCLEAR DEFENSE LAB. (EDGEWOOD ARSENAL, MD)
DATE: 6509
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
DESC: Nuclear Weapon Effects land transport armored vehicles L1
TRANSMISSION FACTORS PROTECTION FACTORS
DESC: EXPERIMENTAL

EFFT: GAMMA
REPN: NDL TR 45
SUJO: 3-151-000 ; 4-140-000
TITL: FALLOUT SHIELDING CHARACTERISTICS OF COMBAT VEHICLES M60 AND M48A2
TANKS M 59 AND M113 ARMORED PERSONNEL CARRIERS (U), 112 P., (U)

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21584

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created: 12/27/1991 type: REPORT permanent

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INUM: 22344
AUTH: RENNER R.H. ; MARTIN S.B. ; JONES R.E.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6606
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L5
DESC: Target Analysis cities L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L5
DESC: SUMMARY
DESC: Nuclear Weapon Effects materials wood paper cellulose films L5
DESC: Nuclear Weapon Effects structures aboveground cities L1 DEBRIS
PRODUCTION P 129

EFFT: THERMAL ; FIRE
REPN: NRDL TR 1040
SUJO: 1-210-000 ; 3-246-000 ; 3-252-000 ; 3-434-000 ; 5-200-000
TITL: PARAMETERS GOVERNING URBAN VULNERABILITY TO FIRE FROM NUCLEAR BURSTS
(PHASE 1) (U), 321 P., (U)

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

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INUM: 22345
AUTH: HAGGMARK L.G.
CLSS: U
CCDE: MONACO
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6605
DESC: Cross Sections gamma L1
DESC: CODE
DESC: Nuclear Weapon Effects ship systems surface ships L5
EFFT: GAMMA
REPN: NRDL TR 1038
SUJO: 3-122-000 ; 9-830-000
TITL: MONTE CARLO TECHNIQUE APPLIED TO THE CALCULATION OF GAMMA-RAY

TRANSPORT IN COMPARTMENTED STRUCTURES (U), 39 P., (U)

TREE: 411

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22359

AUTH: PRITCHETT J.W.

CLSS: U

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

DATE: 6605

DESC: Nuclear Weapon Environment fallout transfer L1

DESC: SIMULATION (HE) ; EXPERIMENTAL

DESC: Nuclear Weapon Environment Water Shock bubbles L1

REPN: NRDL TR 1044

TSHO: UW

SUJO: 2-224-300 ; 2-636-000

TITL: EXPLOSION PRODUCT REDISTRIBUTION MECHANISMS FOR SCALED MIGRATING
UNDERWATER EXPLOSION BUBBLES (U), 149 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22363

AUTH: IRRE E.W. ; KING K.M. ; WALKER B.R. ; EGERBERG L.E.

CLSS: U

CONN: N 228 (62479) 59902

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

DATE: 6508

DESC: HYDRA ; EXPERIMENTAL

DESC: test instruments nuclear radiation gamma L1

DESC: Nuclear Test Simulation Field Programs experiment design engineering
layout performance program documents L1

REPN: NRDL TR 914

SUJO: 4-341-000 ; 4-820-000

TITL: HYDRA PROGRAM; A SHORT-RANGE TELEMETERING ROCKET FOR MEASUREMENT OF
UNDERWATER-NUCLEAR-BURST PLUME RADIATION (U), 64 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22364
AUTH: TOMNOVEC F.M. ; FERGUSON J.M. ; WELDON D.M.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6509
DESC: SIMULATION (BREN) ; EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout Deposition topographic factors
vegetation surface roughness L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
EFFT: GAMMA
REPN: NRDL TR 915
SHOT: SMALL BOY ; DANNY BOY ; JOHNIE BOY ; SEDAN
TSHO: SURFACE
SUJO: 2-223-200 ; 2-225-600
TITL: EFFECT OF A CHANGING GAMMA-RAY FALLOUT SPECTRUM ON THE GROUND
ROUGHNESS FACTOR (U), 37 P., (U)

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22364

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copy: 1 id: 54861-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22365
AUTH: LAUMETS E.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6511
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: THEORY
EFFT: GAMMA
REPN: NRDL TR 905
SUJO: 3-312-100 ; 3-312-210
TITL: TIME HISTORY OF BIOLOGICAL RESPONSE TO IONIZING RADIATION (U), 40
P., (U)

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copy: 1 id: 54862-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22368
AUTH: FREILING E.C. ; KAY M.A.
CLSS: U
CONN: AT (49 7) 1963 MOD 5

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6509
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout fractionation L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
REPN: NRDL TR 933
TSHO: LOW-ALT
SUJO: 2-223-200 ; 2-223-500
TITL: RADIONUCLIDE FRACTIONATION IN AIR-BURST DEBRIS (U), 16 P., (U)

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

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INUM: 22369
AUTH: CROCKER G.R.
CLSS: U
CONN: AT (49 7) 1963 MOD 6
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6601
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout fractionation L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
REPN: NRDL TR 991
TSHO: SURFACE ; WATER-SURFACE ; LOW-ALT
SUJO: 2-223-100 ; 2-223-500
TITL: RADIOCHEMICAL DATA CORRELATIONS FOR SEAWATER AND CORAL-SURFACE
BURSTS (U), 32 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22370
ADNO: 633468
AUTH: MAIER R.J.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6603
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: GAMMA ; FALLOUT CHARGING
REPN: NRDL TR 997
SUJO: 3-221-000
TITL: EFFECT OF RADIATION INDUCED CHARGE ON TRANSISTOR SURFACES (U), 89

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: 22371

ABS: Decontamination is the process of removing fallout material from surfaces to reduce the radiation dose that would be received by anyone exposed to the fallout. The removal of such fallout is very similar to cleaning by ordinary methods. These methods include handbroom sweeping, mechanical street sweeping, mechanized vacuum cleaning, and firehosing. Physical models of cleaning processes are described and mathematical formulations are developed that relate the fallout-mass removal to time spent in the cleaning process for three cases? (1) the layer to be removed is thin and no mass piles up in front of the cleaning equipment, (2) the layer is thick and no piling up occurs, and (3) the layer is thin or thick and piling up occurs. Recommendations are suggested for the conduct of any future decontamination experiments to obtain estimates of the values of basic-equation parameters.

AUTH: MINVIELLE L.J.

CLSS: U

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

DATE: 6603

DESC: Nuclear Warfare Postattack Recovery decontamination L1

DESC: THEORY

REPN: NRDL TR 1001

SUJO: 3-448-900

TITL: MATHEMATICAL ANALYSES OF FALLOUT REMOVAL FROM SURFACES (U), 82 P., (U)

TNFF: 6220

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22372

AUTH: SHUMWAY B.W.

CLSS: U

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

DATE: 6607

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects structures aboveground models L1 COMPARTMENTS

DESC: Nuclear Weapon Effects ship systems surface ships L5

EFFT: GAMMA
REPN: NRDL TR 1045
SHOT: SMALL BOY
TSHO: SURFACE
SUJO: 3-122-000 ; 3-259-900
TITL: EXPERIMENTAL AND CALCULATED ESTIMATES OF THE SHIELDING EFFECTIVENESS
OF COMPARTMENTED STRUCTURES EXPOSED TO FALLOUT (U), 58 P., (U)

TREE: 411

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22375

AUTH: BUNNEY L.R. ; SAM D.

CLSS: U

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

DATE: 6610

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1

DESC: EXPERIMENTAL

DESC: Nuclear Physics Chemistry L1

REPN: NRDL TR 1106

SUJO: 2-223-200 ; 9-010-000

TITL: EXPOSURE RATES FROM THE PRODUCTS OF FAST NEUTRON FISSION OF U 235
AND U 238 AT SELECTED TIMES AFTER FISSION (U), 19 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22377

ABS: This report evaluates firehosing as a wet reclamation procedure for the operational recovery of asphalt paved streets contaminated with fallout from a land surface nuclear detonation. Preliminary tests with inert fallout simulant determined the optimum nozzle stream range and firehosing technique. Principal tests, conducted with radio-traced simulants, measured the effects of hosing rate, stream pattern, particle size and mass loading on the fallout removal performance of firehosing. Several conclusions were indicated? (1) a slow hosing rate (visually controlled) was more effective than a faster rate, regardless of mass loading or particle size range. (2) the removal effectiveness improved with increased particle size range and increased mass loading. (3) an experimental NRDL "flare" nozzle appeared to improve hosing performance at nozzle pressures greater than 150 psi.

ABS: Graphs showing the effect of hosing rate, particle size, mass

loading and stream pattern on the reclamation performance of firehosing are presented.

AUTH: WILTSHIRE L.L. ; OWEN W.L.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6507
DESC: EXPERIMENTAL
DESC: Nuclear Warfare Postattack Recovery cities L1
DESC: Nuclear Warfare Postattack Recovery decontamination L1
REPN: NRDL TR 1049
SUJO: 3-443-000 ; 3-448-900
TITL: REMOVAL OF SIMULATED FALLOUT FROM ASPHALT STREETS BY FIREHOSING
TECHNIQUES (U), 90 P., (U)
TNFF: 6220

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created: 12/27/1991 type: REPORT permanent

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INUM: 22397

ABS: An apparatus is described that can be used to obtain data for evaluation of the health hazard to personnel who directly contact a surface contaminated with tritium. The sampling component is a small glass roller wrapped with a strip of filter paper dampened with ethylene glycol. It is rolled over the contaminated surface to sample the activity. The sampling apparatus has adjustments to vary the surface contact time, the area of surface sampled, and the pressure applied. After a run, the contaminated roller is dropped immediately after contact with the surface into a counting vial containing a scintillant solution, and the activity is assayed. The apparatus is small enough to be operated in a conventional glove box. The precision of the measurements is influenced by the texture of the surface sampled.

ABS: Precision measured on a smooth optical quartz surface using a nonvolatile tracer, PM143, as a contaminant was determined to be $\pm 2\%$. The precision for tritium sampling from a relatively coarser, nonuniform metal surface was approximately $\pm 25\%$. The apparatus can be used to study the rate of tritium desorbed from the surface, which allows estimation of the cumulative hazard effect of multiple contacts with the surface during the desorption period. Representative samples of metal surfaces exposed to tritium show that after exposure, desorption is exponential, decreasing to an "equilibrium" amount within a few hours. Multiple contacts with these desorbing surfaces did not seem to significantly alter the desorption process.

AUTH: BALKWELL W.R. ; KUBOSE D.A.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6509
DESC: Nuclear Warfare Postattack Recovery decontamination L1

DESC: EXPERIMENTAL
REPN: NRDL TR 913
SUJO: 3-448-900
TITL: LABORATORY APPARATUS FOR MEASURING THE AMOUNT OF TRITIUM ACTIVITY
REMOVED FROM A CONTAMINATED SURFACE, BY DIRECT CONTACT WITH THE
SURFACE (U), 36 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22398
AUTH: CROCKER G.R. ; O'CONNOR J.D. ; FREILING E.C.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6506
DESC: Nuclear Weapon Environment Fallout Radioproperties L1
DESC: SUMMARY
DESC: Nuclear Weapon Environment Fallout Particles L1
REPN: NRDL TR 899
SUJO: 2-222-000 ; 2-223-000
TITL: PHYSICAL AND RADIOCHEMICAL PROPERTIES OF FALLOUT PARTICLES (U), 20
P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22453
AUTH: MOSTOW W.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6509
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals blast shock L1
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
REPN: NRDL TR 895
SUJO: 3-311-000 ; 3-312-000
TITL: ANALYTIC METHODOLOGY FOR ESTIMATING THE RELATIVE MAGNITUDE OF PROMPT
AND DELAYED CASUALTIES IN NUCLEAR LAND COMBAT (U), 35 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 22458

ABS: This report describes three separate firehosing experiments each employed radio-traced simulant in order to measure removal effectiveness. Two of the experiments, which were conducted on asphalt streets, concluded the test series started in 1963. The first experiment investigated the feasibility of the NRDL flare nozzle as a reclamation tool for paved surfaces. The second experiment consisted of the full scale reclamation of a street area. This provided operational data and firehose-crew exposure-rate histories. The third experiment, which involved the reclamation of roof surfaces, was a renewal of earlier work performed by this laboratory between 1952 and 1958. New roofing materials were tried and particle size effects were measured. From these three experiments it was concluded that? 1.

ABS: Effectiveness of reclamation by firehosing improves as surface roughness decreases and particle size increases. 2. Removal effectiveness improves with effort, but the residual mass is not significantly reduced after the second pass. 3. The flare nozzle is consistently more effective than the fire nozzle in cleaning roof surfaces. This is not the case for paved surfaces. 4. Results from full scale tests show that the removal effectiveness can never equal that achieved under the less realistic operating conditions represented by smaller engineering-scale tests. 5. RN2 exposure reduction factors are not significantly affected by surface roughness, particle size or mass loading.

AUTH: WILTSHIRE L.L. ; OWEN W.L.

CLASS: U

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

DATE: 6601

DESC: Nuclear Warfare Postattack Recovery decontamination L1

DESC: Nuclear Warfare Postattack Recovery cities L1

DESC: EXPERIMENTAL

REPN: NRDL TR 1048

SUJO: 3-443-000 ; 3-448-900

TITL: THREE TESTS OF FIREHOSING TECHNIQUE AND EQUIPMENT FOR THE REMOVAL OF FALLOUT FROM ASPHALT STREETS AND ROOFING MATERIALS (U), 74 P., (U)

TNFF: 6290

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copy: 1 id: 54980-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22477

ABS: Semiannual radiological resurveys of the "Project Rollercoaster" ground zeros on the Tonopah Test Range, were conducted during January and July 1965. These surveys were performed by the Environmental Surveillance Branch of the Radiological Sciences

Department, Reynolds Electrical and Engineering Company under AEC contract number at-(29-2)-162. The material of interest in the test range is 239 Pu liberated during tests which involved the scattering of the isotope by means of chemical explosions. These tests took place in the spring of 1963 and since that time, 239Pu is still present in sufficient quantity to present a potential health hazard unless adequately controlled. Essentially, both the survey of 25 through 29 January and the one from 26 through 28 July were conducted in the same manner.

ABS: That is, the "Ground Zero" areas out to the "D" arc were monitored with portable alpha survey instruments. The camp areas, with heavy personnel and vehicle traffic, were "swiped" to aid in the evaluation of Pu translocation and industrial as well as potable water samples were collected whenever a source was available.

AUTH: GLORA M.A. ; AOKI I.

CLSS: U

CONN: AT (29 2) 162

CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO., INC. (MERCURY, NV)

DATE: 6603

DESC: Nuclear Weapon Environment alpha activity L1

DESC: Nuclear weapon safety radiological L1

REPN: NVO 162 19

SHOT: CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3

SUJO: 2-223-600 ; 4-838-100

TITL: RADIOLOGICAL CONDITIONS AT PROJECT ROLLERCOASTER SITES-1965 (U), 28 P., (U)

TNFF: 8859

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22517

AUTH: PHILLIPS A.R. ; SULLIVAN W.H.

CLSS: U

CORP: SANDIA CORP. (ALBUQUERQUE, NM)

DATE: 6612

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

DESC: EXPERIMENTAL

EFFT: TREE

REPN: SC RR 66 2664

SUJO: 3-221-000

TITL: RADIATION EVALUATION OF A SMALL SAMPLE OF FN288 AND SU2105 JUNCTION
FIELD EFFECT DEVICES (U), 72 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: 22518
AUTH: PHILLIPS A.R. ; SULLIVAN W.H. ; TAPP C.M.
CLSS: U
CORP: SANDIA CORP. (ALBUQUERQUE, NM)
DATE: 6609
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: SC RR 66 309
SUJO: 3-221-000
TITL: RADIATION EVALUATION OF THE G657064 (FAIRCHILD FA3183) MATCHED DIODE
QUAD (U), 70 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: 22519
AUTH: PHILLIPS A.R. ; SULLIVAN W.H. ; TAPP C.M.
CLSS: U
CORP: SANDIA CORP. (ALBUQUERQUE, NM)
DATE: 6609
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: EXPERIMENTAL
EFFT: TREE
REPN: SC RR 66 308
SUJO: 3-221-000
TITL: RADIATION EVALUATION OF THE G657092 (MOTOROLA 1N823A) SILICON
REFERENCE DIODE (U), 25 P., (U)
TREE: 310

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22519
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22520
AUTH: PHILLIPS A.R. ; SULLIVAN W.H.
CLSS: U

CORP: SANDIA CORP. (ALBUQUERQUE, NM)
DATE: 6611
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: SC RR 66 656
SUJO: 3-221-000
TITL: RADIATION EVALUATION OF THE G657137 (MOTOROLA SF2585) TRANSISTOR
(U), 54 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: 22522
AUTH: TAPP C.M. ; PHILLIPS A.R.
CLSS: U
CORP: SANDIA CORP. (ALBUQUERQUE, NM)
DATE: 6505
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: SC RR 65 171
SUJO: 3-221-000
TITL: RADIATION EVALUATION OF THE G657206 (MOTOROLA IN3038B) ZENER DIODE
(U), 40 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: 22523
AUTH: PHILLIPS A.R. ; SULLIVAN W.H.
CLSS: U
CORP: SANDIA CORP. (ALBUQUERQUE, NM)
DATE: 6609
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: SC RR 66 311
SUJO: 3-221-000

TITL: RADIATION EVALUATION OF THE G657318 TRANSISTOR (MOTOROLA) (U), 92 P., (U)

TREE: 310

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copy: 1 id: 55046-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22524

AUTH: PHILLIPS A.R. ; SULLIVAN W.H.

CLSS: U

CORP: SANDIA CORP. (ALBUQUERQUE, NM)

DATE: 6611

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

DESC: EXPERIMENTAL

EFFT: TREE

REPN: SC RR 66 651

SUJO: 3-221-000

TITL: RADIATION EVALUATION OF THE G657322 (MOTOROLA 2N3664) TRANSISTOR (U), 80 P., (U)

TREE: 310

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created: 12/27/1991 type: REPORT permanent

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INUM: 22532

AUTH: PONG L.C. ; JEUNG J.L. ; JOHNSON L.D.

CLSS: U

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

DATE: 6507

DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L1

DESC: test instruments nuclear radiation gamma L5

REPN: NRDL TR 923

TSHO: UW

SUJO: 4-341-000 ; 4-821-000

TITL: PROJECT 7.1-OPERATION SPIN DRIFT; A DRONE BOAT FOR EARLY-TIME
INVESTIGATION OF THE CONTAMINATED WATER MASS FORMED BY AN UNDERWATER
NUCLEAR EXPLOSION; 1, RADIATION-INDICATING DEVICE (RID) (U), 20 P.,
(U)

TREE: 651

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INUM: 22539
ADNO: 360847
AUTH: PETERSON R.H.
CLSS: C
CORP: ARMY BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD)
DATE: 6501
DESC: Target Analysis military forces L1
DESC: Nuclear Weapon Effects land transport armored vehicles L5 AND CREW
EFFECTS (RADIATION)
DESC: TABULAR
EFFT: AIR-BLAST
REPN: BRL MR 1615
SUJO: 3-151-000 ; 3-432-000
TEMP: A7967
TITL: PARAMETRIC STUDY OF THE DAMAGING EFFECTS OF TACTICAL NUCLEAR WEAPONS
ON ARMORED UNITS (U), 432 P., (S)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22570
AUTH: KLEMENT A.W. JR. ; SCHULTZ V.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (WASH., DC)
DATE: 6604
DESC: Nuclear Weapon Effects on plants ionizing radiation L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects ecological L1
REPN: TID 3910 (SUPPL 4)
SUJO: 3-312-200 ; 3-332-000 ; 3-341-000
TITL: TERRESTRIAL AND FRESHWATER RADIOECOLOGY; A SELECTED BIBLIOGRAPHY,
SUPPLEMENT 4 (U), 128 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22584

AUTH: CROCKER G.R. ; CONNORS M.A.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6506
DESC: Nuclear Physics Chemistry L1
DESC: TABULAR
DESC: Nuclear Weapon Environment radiation decay beta decay L1
REPN: NRDL TR 876
SUJO: 2-223-430 ; 9-010-000
TITL: GAMMA-EMISSION DATA FOR THE CALCULATION OF EXPOSURE RATES FROM
NUCLEAR DEBRIS; VOL. 1, FISSION PRODUCTS (U), 92 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22601
AUTH: CHING S.
CLSS: U
CORP: COMMUNIST CHINA
DATE: 6612
DESC: THEORY
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1
LA: CHINA
REPN: GUO 2250 ; N67 14319
TSHO: SURFACE ; LOW-ALT
SUJO: 2-311-000 ; 2-321-100
TITL: PROPAGATION OF ELECTROMAGNETIC WAVES THROUGH A NUCLEAR
DETONATION-PRODUCED RADIATION FIELD (U), 23 P., (U)

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22601

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created: 12/27/1991 type: REPORT permanent

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INUM: 22679
AUTH: STEIN H.J.
CLSS: U
CORP: SANDIA CORP.
DATE: 6507
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 N-TYPE SILICON
EFFT: NEUTRON
REPN: SC R 65 938

SUJO: 3-221-000
TITL: INTRODUCTION RATE OF ELECTRICALLY ACTIVE DEFECTS IN N-TYPE SILICON
BY NUCLEAR RADIATION (U), 18 P., (U)

TREE: 200

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created: 12/27/1991 type: REPORT permanent

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INUM: 22702

AUTH: SMITH L.C.

CLSS: CRD

CONN: W 7405 ENG 36

CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, NM)

DATE: 6606

DESC: Nuclear Weapon Effects ordnance explosives L1 RDX HMX TATB

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: NEUTRON

REPN: LA 3486

SHOT: SMALLBOY

SUJO: 3-163-000

TEMP: A8789

TITL: VULNERABILITY OF ORGANIC EXPLOSIVES TO PULSES OF NUCLEAR RADIATION
(U), 23 P., (CRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 22784

AUTH: GIBBONS M.G.

CLSS: U

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

DATE: 6608

DESC: TABULAR

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1

REPN: NRDL TR 1060

SUJO: 5-200-000

TITL: TRANSMISSIVITY OF THE ATMOSPHERE FOR THERMAL RADIATION FROM NUCLEAR
WEAPONS (U), 48 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 22786
AUTH: KSANDA C.F. ; LAUMETS E. ; HOGAN M.A.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6512
DESC: Nuclear Physics Chemistry L1
DESC: TABULAR
REPN: NRDL TR 942
SUJO: 9-010-000
TITL: GAMMA-RAY ENERGY PSEUDOSPECTRA FOR U 235 FISSION PRODUCTS AND FOR
VARIOUS TIMES AFTER FISSION (U), 103 P., (U)

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22786

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copy: 1 id: 55354-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent
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INUM: 22787

ABS: A sod-cutting machine was evaluated for its usefulness in the radiological reclamation of small lawn areas -some of which were confined by sidewalks, trees and buildings. Fallout conditions were simulated by contaminating lawn test areas with radio-traced sand. Nominal particle size ranges of 44-88 mu, 88-177 mu, 177-350 mu and 350-700 mu were used. This fallout simulant was dispersed at nominal concentrations of 25, 50 and 100 g/ft², respectively. Reclamation effectiveness of sod cutting was dependent upon machine factors (blade depth), soil characteristics (moisture content) and fall-out simulation properties (mass loading). The least effective sod removal results were obtained in confined lawns with high moisture content and heavy rock concentrations.

ABS: The best sod cutting and removal effectiveness results were obtained on more accessible lawns having less moisture content and only a light concentration of rocks. Simulant particle size was found to have little, if any, effect upon reclamation performance either with respect to effort required or removal effectiveness achieved.

AUTH: COBBIN W.C. ; OWEN W.L.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6504
DESC: EXPERIMENTAL
DESC: Nuclear Warfare Postattack Recovery decontamination L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic external L5
REPN: NRDL TR 965
SUJO: 3-312-210 ; 3-448-900
TITL: DEVELOPMENT AND TEST OF A SOD-REMOVAL PROCEDURE FOR MOIST LAWNS
CONTAMINATED BY SIMULATED FALLOUT (U), 77 P., (U)

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copy: 1 id: 55355-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22788

AUTH: HENDRICKS J.W. ; KSANDA C.F.

CLSS: U

CCDE: INFOPNUC (ENGAGEMENT) NRDL

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

DATE: 6602

DESC: SUMMARY

DESC: Nuclear Warfare Theater tactical navy ASW L1

REPN: NRDL TR 978

SUJO: 3-412-400

TITL: NAVAL ANTI-AIR WARFARE MODEL EMPHASIZING ACCESSIBILITY IN DEFENSE
SYSTEM OPTIMIZATION AND R + D DECISION-MAKING (U), 90 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22790

AUTH: PARKER W.J.

CLSS: U

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

DATE: 6602

DESC: Nuclear Weapon Effects materials wood paper cellulose films L5

DESC: Cross Sections x-ray L1

DESC: SUMMARY

EFFT: THERMAL

REPN: NRDL TR 984

SUJO: 3-246-000 ; 9-840-000

TITL: THERMAL HARDENING CONSIDERATIONS PERTAINING TO RESIDENTIAL AREAS
(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: 22791

AUTH: SCHROCK V.E.

CLSS: U

CONN: AT (49 5) 2085
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6504
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L5 THERMAL HEATING
DESC: Simulation Facilities Techniques thermal optical L1 UW BUBBLE
GENERATOR REACTOR PULSE SIMULATOR
DESC: THEORY
REPN: NRDL TR 940
SUJO: 4-241-000 ; 4-280-000
TITL: PULSED REACTOR SIMULATION OF UNDERWATER NUCLEAR DETONATIONS--THERMAL
ANALYSIS (U), 30 P., (U)

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

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INUM: 22799
AUTH: PHILLIPS A.R. ; TAPP C.M.
CLSS: U
CORP: SANDIA LAB. (ALBUQUERQUE, NM)
DATE: 6507
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: EXPERIMENTAL
EFFT: TREE
REPN: SC RR 65 245
SUJO: 3-221-000
TITL: RADIATION EVALUATION OF THE G657319 TRANSISTORS (MOTOROLA SM1756)
(U), 55 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: 22813

ABS: A great deal of fallout reclamation-performance data has been generated over the past decade that is useful to planners of radiological recovery operations. Because it was contained in a variety of reports and documents prepared by different agencies, this material was neither convenient to civil defense planners nor was it always available in a comprehensible form. As a first step toward correcting the situation, this current volume presents a tabular data compilation summarizing the performance of land reclamation methods and equipment. The tabled entries were gathered

from 18 different experiments and field operations. They include those operational and environmental factors known to influence reclamation effectiveness.

ABS: A second volume will be devoted to the evaluation and reorganization of the above compilation into a form compatible with the pre-planning of radiological recovery operations.

ADNO: 634093
AUTH: OWEN W.L. ; KAWAHARA F.K. ; WILTSHIRE L.L.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6510
DESC: SURVEY
DESC: Nuclear Warfare Postattack Recovery decontamination L1
REPN: NRDL TR 967
SUJO: 3-448-900
TITL: RADIOLOGICAL RECLAMATION PERFORMANCE SUMMARY; VOL. 1, PERFORMANCE TEST DATA COMPILATION (U), 97 P., (U)
TNFF: 6290

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created: 12/27/1991 type: REPORT permanent

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INUM: 23438
AUTH: RENNER R.H. ; JONES R.E. ; LU W.
CLSS: SFRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6512
DESC: Nuclear Weapon Environment Thermal Output source strength total intensity L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5 DIMENSIONS FOR 5 SPECIFIC ATTACKS
REPN: NRDL LR 151
TSHO: SURFACE ; LOW-ALT
SUJO: 1-210-000 ; 1-240-000 ; 2-110-000
TEMP: B0036
TITL: THERMAL CALCULATIONS FOR THE FIVE CITY STUDY ATTACK ENVIRONMENT MODEL (U), 36 P., (SFRD)

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copy: 1 id: 55926-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23480
AUTH: KALAB B.M. ; ZAGORITES H.A.

CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6612
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
DESC: THEORY
EMPF: 223 ; 222
REPN: NRDL LR 241
TSHO: SURFACE ; LOW-ALT
SUJO: 2-510-000
TEMP: B0034
TITL: EMP CALCULATIONS FOR THE FIVE-CITY STUDY (U), 28 P., (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 23489
AUTH: SNYDER E.G. ; MANSFIELD J. ; MARTIN S.
CLSS: C
CONN: N 600 (167) 64992(X) (FBM)
CORP: URS CORP. (BURLINGAME, CA)
DATE: 6610
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems antennas L1 SHIPBOARD RADARS
DESC: Nuclear Weapon Effects ship systems surface ships L1
EFFT: THERMAL
REPN: URS 665 2
SUJO: 3-122-000 ; 3-132-210
SYST: DLG 16 ; ANSPS-10D ; ANSPS-43 ; ANSPS-48
TEMP: B0201
TITL: PRELIMINARY EVALUATION OF THE VULNERABILITY OF DLG-16 TYPE VESSELS
TO THERMAL RADIATION (U), 25 P., (C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 23941
AUTH: HAMMAN D.J. ; DRENNAN J.E. ; VEAZIE W.H. ; SHOBER F.R. ; LEACH E.R.
; BROADWAY N.J. ; GILLETTE H.C. ; ALLGEIER J.P. JR. ; HOLT J.C. ;
KAGILASKI M.

CLSS: U

CONN: AF 33 (615) 1124

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS, OH)

DATE: 6606

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

DESC: SURVEY
EFFT: TREE
REPN: REIC 42
SUJO: 4-170-000
TITL: RADIATION-EFFECTS STATE OF THE ART 1965-1966 (U), CA. 100 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 23952
ADNO: 360712L
AUTH: BREVDY J. ; SPOTTS R.L. ; PERRINE R.T.
CLSS: C
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6503
DESC: Nuclear Weapon Effects structures shipyards harbors L1
DESC: TABULAR
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

external L5

EFFT: THERMAL ; AIR-BLAST ; FALLOUT
REPN: NRDL 481
SUJO: 3-123-000 ; 3-312-210
TEMP: B0184
TITL: TARGET VULNERABILITY STUDIES; HANDBOOK NUMBER 1 (U), CA. 500 P., (C)

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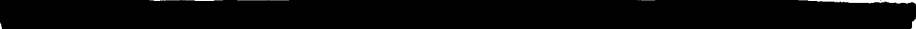
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created: 12/27/1991 type: REPORT permanent

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INUM: 24842
AUTH: SHNIDER R.W.
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB.
DATE: 6500
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1 FROM ASROC IN AIR AND AT WATER SURFACE ALSO FROM SEVERAL
NTS EVENTS
DESC: VARIOUS MEMORANDA
DESC: Nuclear weapon test device physical operation construction geometry
materials components L5 CASES OF DOMINIC DEVICES
SHOT: STARFISH ; CHECKMATE ; KINGFISH ; LINDEN ; SWORDFISH ; OWENS ; SMALL
BOY ; WILSON ; PRISCILLA
SOCE: 

[REDACTED]

SUJO: 1-110-000 ; 1-120-000 ; 4-836-000
TEMP: B3136
TITL: NEUTRON OUTPUT NOTES (U), CA. 50 P., (SRD)
TREE: 920

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created: 12/27/1991 type: REPORT permanent
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INUM: 25030
AUTH: YOUNG C.A.
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6510
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock craters excavations L5 P 27
DESC: Nuclear Weapon Environment fallout down fraction L1 IN CRATER
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
REPN: URDL LR 141
SHOT: LITTLE FELLER I ; LITTLE FELLER II ; JOHNIE BOY ; SUGAR ; SMALL BOY
; LACROSSE ; CACTUS ; KOON ; TEWA ; MIKE ; BRAVO
TSHO: SURFACE
SUJO: 2-223-420 ; 2-225-200 ; 2-625-000
TEMP: B3964
TITL: ANALYSIS OF EARLY-TIME CRATER GAMMA EXPOSURE RATES FOR SURFACE
NUCLEAR DETONATIONS (U), 30 P., (SRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 25972
AUTH: LESSLER R.M. ; GUY F.W.
CLSS: SRD
CCDE: SORS
CONN: W 7405 ENG 48
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 6504
DESC: CALCULATIONS OF INDUCED RADIATION IN NTS SOIL [REDACTED]
[REDACTED]: THEORY
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
EFFT: NEUTRON ; GAMMA
REPN: UCRL 12339 VOL. 3
SHOT: WHITE ; GREYS

SUJO: 2-223-200
TEMP: A8151
TITL: GAMMA DOSE RATES AND INTEGRATED DOSES FROM NEUTRON-INDUCED RESIDUAL
RADIOACTIVITY IN SOIL (U), 17 P., (SRD)

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INUM: 26891
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6500
DESC: SUMMARY
DESC: Simulation Facilities Techniques thermal optical L1
SUJO: 4-280-000
TITL: REVISED USNRDL FY 1966 DASA NWER PROPOSAL, SUBTASK NO. 12.024 (U),
CA. 50 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 27354
AUTH: JENKINS R.J.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6603
DESC: Nuclear RDT&E Research Program Descriptions thermal optical L5
REPN: NRDL IR 169
SUJO: 4-180-000
TITL: FIRE MODELS AND OPERATION FLAMBEAU PLANNING (U), 12 P., (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 30820
AUTH: TAPP C.M. ; PHILLIPS A.R.
CLSS: U
CORP: SANDIA CORP. (ALBUQUERQUE, NM)
DATE: 6505

DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: SC RR 65 140
SUJO: 3-221-000
TITL: RADIATION EVALUATION OF THE G657072 TRANSISTOR (FAIRCHILD SP9156)
(U), 41 P., (U)
TREE: 310

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created: 12/27/1991 type: REPORT permanent
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INUM: 30942

ABS: The primary objective of this study is to determine cost and effectiveness information relating to the application of decontamination and the extent of its utility when applied to the recovery of extensive city areas in a postattack environment. The general approach toward meeting the objectives of the study, including a brief description of each of the models developed under the contract, is outlined. The command and control aspects of municipal decontamination are summarized, and the results of a systems analysis of decontamination are briefly stated. The results of the extensive real-cities analyses conducted under the subtask are summarized. Both general and specific conclusions and recommendations are stated. The results of the real-cities analyses showed that roof decontamination is an important part of most combined strategies of decontamination.

ABS: These results also showed that the recovery of substantial city areas and multi-building complexes could be accelerated appreciably by practicable decontamination procedures. These conclusions are based on somewhat idealized conditions. For example, fallout is assumed to be carried far enough away from the detector so as not to contribute at all to the radiation intensity. Other idealizations, particularly those related to weathering of fallout which may cause protection estimates to be in error, were largely ignored. Also, it should be noted that these conclusions were drawn in the light of uncertainties with regard to the accuracy of the engineering manual techniques. It is recommended that research be undertaken to determine the extent to which errors are introduced and, if necessary, examine alternative problems, such as Monte Carlo techniques to possibly reduce these errors.

ADNO: 635820
AUTH: RYAN J.T.
CLSS: U
CONN: N 228 (62479) 68153
CORP: RESEARCH TRIANGLE INSTITUTE (DURHAM, NC)
DATE: 6606
DESC: SUMMARY

DESC: Nuclear Warfare Postattack Recovery decontamination L1
REPN: R OU 214
SUJO: 3-448-900
TITL: INTRODUCTION AND SUMMARY TO RADIOLOGICAL RECOVERY REQUIREMENTS,
STRUCTURES, AND OPERATIONS RESEARCH (U), 14 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 30945

ABS: This study provides guidance on the basic applicability and relative worth of roof washdown as a fallout radiation countermeasure. The basic purpose of roof washdown is to reduce the radiation dose to occupants of a building by preventing or reducing the accumulation of fallout on the roof. However, the roof washdown system does not affect the penetration of the roof by radiation from other sources. It was found that under some circumstances a roof washdown system is a useful means for increasing the protection of building interiors and that, in general, the cost of a washdown system for large roof area structures with smooth sloped roofs will be less than the cost of providing an equivalent amount of shielding. However, applied shielding provides 100 percent reliability whereas roof washdown systems may not be as reliable.

ADNO: 668220

AUTH: HONG L.

CLSS: U

CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA)

DATE: 6612

DESC: Cross Sections gamma L1

DESC: Nuclear Warfare Postattack Recovery decontamination L1

DESC: TABULAR

SUJO: 3-448-900 ; 9-830-000

TITL: ANALYSIS OF ROOF WASHDOWN VERSUS APPLIED SHIELDING AS A FALLOUT
COUNTERMEASURE (U), 31 P., (U)

TNFF: 6220

TREE: 411

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30945

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

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INUM: 30948

ABS: The objective of this project is to develop and test radio-logical countermeasures that can be used in post-nuclear-attack recovery operations. The specific objective of This Phase of the project was

to conduct decontamination experiments on exterior surfaces made radioactive with small-particle simulant, and to conduct decontamination studies on railroad tracks, transportation vehicles, and mechanical equipment used for radiological recovery operations. To accomplish these objectives, approximately 150 decontamination trials were conducted at Camp McCoy, Wisconsin, during the periods January-June 1964 and February-March 1965. The following conclusions were based on the results of these studies; 1. Hosing and sweeping reclamation techniques when applied to 20-to 75-micron fallout on land targets are less effective than when applied to larger particle ranges.

ABS: 2) the reclamation techniques of air and water hosing are of limited effectiveness when applied to railroad track areas. The passage of fast trains can be expected to effectively remove fallout from the track area under the train. 3. Vehicles and equipment contaminated with fallout should be decontaminated to reduce a significant potential dose from such contamination. They are effectively decontaminated by dry manual and air-hosing procedures, and in some cases, by weathering effects. First-echelon effort with a groom is adequate and reasonable. 4. The presence or use of water, especially in below-freezing weather, can adversely affect the decontamination of vehicles and equipment.

ADNO: 632989
AUTH: MALONEY J.C. ; MEREDITH J.L.
CLSS: U
CORP: ARMY NUCLEAR DEFENSE LAB. (EDGEWOOD ARSENAL, MD)
DATE: 6605
DESC: EXPERIMENTAL
DESC: Nuclear Warfare Postattack Recovery decontamination L1
REPN: NDL TR 66
SUJO: 3-448-900
TITL: DECONTAMINATION OF LAND TARGETS, VEHICLES, AND EQUIPMENT (U), 81 P.,
(U)
TNFF: 6220 ; 6290

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30948
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copy: 1 id: 61629-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 31056
AUTH: KAGAWADA H.H. ; KALABA R.E.
CLSS: U
CONN: AF 49(638) 1700
CORP: RAND CORP. (SANTA MONICA, CA)
DATE: 6602
DESC: Radiation Transport neutron L1
DESC: Radiation Transport thermal L1
DESC: THEORY
REPN: RM 4928 PR
SUJO: 9-610-000 ; 9-650-000

TITL: INITIAL VALUE METHODS FOR THE BASIC BOUNDARY VALUE PROBLEM AND
INTEGRAL EQUATION OF RADIATIVE TRANSFER (U), 13 P., (U)

TREE: 950

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created: 12/27/1991 type: REPORT permanent

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INUM: 31199

ADNO: 489966

AUTH: KENNEDY D.A. ; O'CONNELL D.C.

CLSS: U

CORP: DEFENCE CHEMICAL BIOLOGICAL AND RADIATION LABS. (OTTAWA ONTARIO,
CANADA)

DATE: 6606

DESC: SUMMARY

DESC: CBR Training Simulation Nuclear Simulation for Troop Training L1

REPN: DCBRL TN 66 14

SUJO: 3-790-000

TITL: SMALL, LOW FLOW RATE, LIQUID IMPINGER FOR A BW FIELD SAMPLING
TRAINING KIT (U), 5 P., (U)

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31199

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copy: 1 id: 61884-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 31200

ADNO: 489964

AUTH: KENNEDY D.A. ; O'CONNELL D.C.

CLSS: U

CORP: DEFENCE CHEMICAL BIOLOGICAL AND RADIATION LABS. (OTTAWA ONTARIO,
CANADA)

DATE: 6606

DESC: CBR Training Simulation Nuclear Simulation for Troop Training L1

DESC: SUMMARY

REPN: DCBRL TN 66 12

SUJO: 3-790-000

TITL: B.W. FIELD SAMPLING TRAINING KIT (U), 6 P., (U)

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copy: 1 id: 61885-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: 31700
ADNO: 377632L
AUTH: ALLEN C.L. ; SINCLAIR K.F.
CLSS: C
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6612
DESC: Nuclear Weapon Environment radiation decay gamma decay L5
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5
DESC: THEORY
DESC: test instruments nuclear radiation dosimeters radiacs L5
REPN: NRDL TR 1094
TSHO: UW
SUJO: 2-223-200 ; 2-223-420 ; 4-346-000
TEMP: C1617
TITL: ESTIMATES OF RADIAC PERFORMANCE REQUIREMENTS FOR SUBMARINES (U), 26
P., (C)

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31700

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copy: 1 id: 62365-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32220
ADNO: 365700L
CLSS: U
CORP: AIR FORCE ROME AIR DEVELOPMENT CENTER (GRIFFISS AFB, NY)
DATE: 6507
DESC: THEORY TABULAR
DESC: Directed Energy Weapons Lasers Technology L1
REPN: RADC TR 65 139
SUJO: 3-611-050
TITL: EXPERIMENTAL STUDIES FOR AN OPTICAL RADIATION WEAPON SYSTEM (U), 110
P., (U)

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copy: 1 id: 62874-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32229
ABS: This report presents the technical basis upon which the current revision of the manual "Radiological Recovery of Fixed Military Installations (NAVDOKS TP-PL-13 and Army TM-3-225)" is being prepared. It describes certain critical assumptions made and quantities varied during the revision process.

ADNO: 475815L
AUTH: FREUND D.
CLSS: U

CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6601
DESC: TABULAR
DESC: Nuclear Warfare Postattack Recovery decontamination L1
REPN: NRDL TR 919
SUJO: 3-448-900
TITL: TECHNICAL BASIS FOR REVISION OF THE MANUAL, RADIOLOGICAL RECOVERY OF
FIXED MILITARY INSTALLATIONS (NAVDOCKS TP-PL-13 AND ARMY TM-3-255)
(U), 85 P., (U)

TNFF: 6400 ; 6220

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copy: 1 id: 62883-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 32788

ADNO: 361182L

CLSS: C

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

DATE: 6504

DESC: Target Analysis system studies harbors L1

DESC: TABULAR

DESC: Nuclear Weapon Effects structures shipyards harbors L1

REPN: NRDL 484

SUJO: 3-123-000 ; 3-431-320

TEMP: C1877

TITL: TARGET VULNERABILITY STUDIES HANDBOOK NO. 4 ; PUGET SOUND NAVAL
SHIPYARD (U), CA. 400 P., (C)

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copy: 1 id: 63422-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 33390

ABS: Twenty-nine papers covering laser technology from biological effects
of laser radiation to reports on neodymium glass and ruby lasers,
pumping, propagation and scattering, laser reconnaissance,
surveillance, coherent radar devices and interaction of the
radiation produced by a laser with a solid target. (author)

ADNO: 361398L

AUTH: RAINS L. ; DOWD T.B.

CLSS: S

CORP: OFFICE OF NAVAL RESEARCH (BOSTON, MA)

DATE: 6505

DESC: Directed Energy Weapons Lasers USSR L1 P1

DESC: Directed Energy Weapons Lasers Overviews L1

DESC: Directed Energy Weapons Lasers Technology Overviews L1
DESC: SURVEY
SUJO: 3-610-100 ; 3-611-020 ; 3-619-100
TEMP: C2895
TITL: PROCEEDINGS OF THE SECOND CONFERENCE ON LASER TECHNOLOGY (U), 386 P.
(S)

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copy: 1 id: 64082-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 33825
ADNO: 808934L
AUTH: FONTANA W.J.
CLSS: U
CORP: ARMY ELECTRONICS COMMAND (FT. MONMOUTH, NJ)
DATE: 6612
DESC: test instruments nuclear radiation dosimeters radiacs L1
DESC: TABULAR
REPN: ECOM 2789
SUJO: 4-346-000
TITL: STUDY OF MICROAMMETERS FOR RADIACMETERS IM-174 (U), 16 P., (U)
TREE: 655

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33825
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copy: 1 id: 64526-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 34594
ABS: This report contains writeups on: the formation of radioactive substances as a result of nuclear explosions, fundamental properties of radioactive substances, the damaging action of radioactive radiation, the nature and scales of radioactive contamination, methods and means of achieving protection under conditions of radioactive contamination, the order in which protective measures are carried out, and the rules governing conduct under conditions created by radioactive contamination.

ADNO: 627014
AUTH: ZUBKIN A.S. ; MEDVEDEV V.A.
CLSS: U
CORP: AF FOREIGN AND TECHNOLOGY CENTER
DATE: 6512
DESC: Nuclear Warfare Postattack Recovery USSR L5
DESC: SUMMARY
DESC: Nuclear Warfare Postattack Recovery decontamination L5
LA: USSR

REPN: FSTC 381 T65 669
SUJO: 3-448-900 ; 3-449-200
TITL: NATURE OF RADIOACTIVE CONTAMINATION AND METHODS OF PROTECTION
AGAINST IT (U), 38 P., (U)

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copy: 1 id: 65269-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent

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INUM: 34917
CLSS: SRD
CORP: ACDC
DATE: 6502
DESC: OREGON TRAIL CASUALTY ESTIMATE
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: Nuclear Weapon Effects on animals thermal burns heating L1
DESC: Civil Defense transattack measures medical treatment L1
DESC: Nuclear Weapon Effects on animals blast shock L5
SUJO: 3-311-000 ; 3-312-100 ; 3-313-100 ; 3-476-200
TEMP: C4767
TITL: MASS CASUALTIES, TREATMENT AND EVACUATION; A SUBSTUDY OF PROJECT
OREGON TRAIL (U), CA. 200 P., (SRD)

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copy: 1 id: 65602-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 36381
AUTH: LOCKER R.J.
CLSS: U
CORP: GENERAL ELECTRIC CO., SPACE SCIENCES LAB. (PHILADELPHIA, PA)
DATE: 6600
DESC: Directed Energy Weapons Proton Beams Technology Signatures detection
off-axis radiation L1
DESC: TABULAR SUMMARY
SUJO: 3-631-330
SYMJ: PREPARED FOR PRESENTATION AT IEEE 13TH NUCLEAR SCIENCE SYMPOSIUM
"INSTRUMENTATION IN SPACE AND LABORATORY", BOSTON, MA, OCTOBER
19-21, 1966, TO BE PUBLISHED IN IEEE TRANSACTIONS ON NUCLEAR
SCIENCE, FEBRUARY 1967
TITL: UNIQUE RADIATION DETECTION CONCEPT FOR A MINIATURE PARTICLE
SPECTROMETER (U), 10 P., (U)

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36381

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copy: 1 id: 67105-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent
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INUM: 40294

ABS: By means of an autoradiographic method, the number concentration of nuclear debris particles of different radioactivity content has been studied. The material consisted of air-filer samples taken at an altitude of 8-12 km in 1961-1963. In the periods studied the concentration of particles with diameters larger than about 0.5 micrometer was of the order of 10-100 kg to the -1 in the lower stratosphere and decreased slowly with time. It was found, that the content of such particles relative to the total radioactivity decreases fairly rapidly. It was also observed, that the relative concentration of larger particles is higher in the tropospheric samples than in the stratospheric.

ACCD: 91 08 05

ADNO: B968862

AUTH: Edvarson K. ; Sisefsky J.

CLSS: U

CORP: Research Institute of National Defense (Stockholm; Sweden)

DATE: 6504

DESC: FROM RUSSIAN ARCTIC SHOTS ; EXPERIMENTAL

DESC: Nuclear Weapon Environment radiation decay L5 MEAN DISINTEGRATIONS ONLY

DESC: Nuclear Weapon Environment Fallout Particles size distribution L1 MEAN SIZES

REPN: FOA 4 ; A 4426 455

SUJO: 2-222-300 ; 2-223-400

TITL: Observations on the Particle Properties of Nuclear Debris in the Upper Atmosphere (U), 18 P., (U)

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copy: 1 id: 71486-1001 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 3

AUTH: HAND J.E. ; BORELLA H.M.

CLSS: U

CCDE: ZZ (DATA REDUCTION)

CORP: E G AND G INCORPORATED (SANTA BARBARA-CALIFORNIA)

DATE: 6509

DESC: CODE

REPN: CEX 59.4

TITL: AERIAL RADIOLOGICAL MONITORING SYSTEM, PART III, ELECTRONIC PROCESSING OF ARMS-II DATA, CIVIL EFFECTS STUDY (U), 70 P (U)

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CEX 59.4 3

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: CEX 59.7B 1
AUTH: BURSON Z.G.
CLSS: U
CORP: EG+G, INC. (LAS VEGAS, NV.)
DATE: 6607
DESC: Cross Sections gamma L5
DESC: Nuclear Weapon Effects structures aboveground components L1
DESC: SIMULATION (CO-60) MRMU ; EXPERIMENTAL
REPN: CEX 59.7B PT. 1
SUJO: 3-251-100 ; 9-830-000
TITL: EXPERIMENTAL RADIATION MEASUREMENTS IN CONVENTIONAL STRUCTURES; PT.
1, RADIATION MEASUREMENTS IN TWO TWO-STORY AND THREE ONE-STORY
TYPICAL RESIDENTIAL STRUCTURES BEFORE AND AFTER MODIFICATION (U),
110 P., (U)
TREE: 411

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CEX 59.7B 1
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copy: 1 id: 72738-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: CEX 59.7B 3
AUTH: BURSON Z.G.
CLSS: U
CORP: E G AND G INCORPORATED (LAS VEGAS-NEVADA)
DATE: 6511
DESC: Cross Sections gamma
DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation
REPN: CEX 59.7 B
SUJO: 3-312-000 ; 4-242-000 ; 9-830-000
TITL: EXPERIMENTAL RADIATION MEASUREMENTS IN CONVENTIONAL STRUCTURES, PART
III, THE ATTENUATION OF AIR-SCATTERED RADIATION IN A BASEMENT, CIVIL
EFFECTS STUDY (U),70 P (U)
TREE: 411

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CEX 59.7B 3
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: CEX 62.11
AUTH: CHEKA J.S. ; SANDERS F.W. ; JONES T.D. ; SHINPAUGH W.H.
CLSS: U
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN.)
DATE: 6508
DESC: Nuclear Weapon Effects structures aboveground components L1
DESC: SIMULATION (BREN) ; EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: CEX 62.11
SUJO: 3-251-100
TITL: DISTRIBUTION OF WEAPONS RADIATION IN JAPANESE RESIDENTIAL STRUCTURES
(U), 117 P., (U)

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CEX 62.11

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

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INUM: CEX 62.13
AUTH: THORNGATE J.H. ; LOY E.T.
CLSS: U
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN.)
DATE: 6606
DESC: BREN ; TABULAR
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1
REPN: CEX 62.13
SUJO: 4-241-000
TITL: POST PULSE GAMMA-RADIATION SPECTRUM--OPERATION BREN (U), 115 P., (U)

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CEX 62.13

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created: 12/27/1991 type: REPORT permanent

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INUM: CEX 62.50
AUTH: TOMNOVEC F.M. ; FERGUSON J.M.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6509
DESC: EXPERIMENTAL
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources
DESC: Nuclear Weapon Environment Fallout isotope concentrations
REPN: CEX 62.50
SUJO: 2-223-100 ; 4-241-000
TITL: NEUTRON-FIELD AND INDUCED-ACTIVITY MEASUREMENTS OPERATION BREN (U),

SUJO: 1-110-000 ; 1-120-000 ; 1-210-000 ; 1-610-000 ; 1-620-000 ;
1-640-000 ; 1-710-000 ; 1-740-000 ; 2-510-000 ; 3-112-000 ;
3-210-000 ; 3-219-000 ; 3-220-000 ; 3-221-000 ; 3-222-000 ;
3-229-000

TEMP: 51262

TITL: TREE (TRANSIENT RADIATION EFFECTS ON ELECTRONICS) HANDBOOK
(CLASSIFIED SUPPLEMENT) (U), 34 P (SRD)

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DASA 1420(2)

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1420(3)

ADNO: 488081L

AUTH: JONES D.C.

CLSS: U

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OHIO)

DATE: 6607

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

DESC: Nuclear Weapon Effects electronic pieceparts solar cells

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits

DESC: Nuclear Weapon Effects electrical mechanical cables wires

DESC: HANDBOOK

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

DESC: Nuclear Weapon Effects electronic subsystems

REPN: DASA 1420ED2

SUJO: 3-210-000 ; 3-221-000 ; 3-222-000 ; 3-223-000 ; 3-229-000 ;
3-231-000

TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONICS, HANDBOOK, EDITION NUMBER
2, (U), 305 P (U)

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DASA 1420(3)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1546

ADNO: 458764

AUTH: MARTIN S.B. ; RAMSTAD R.W.

CLSS: U

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

DATE: 6501

DESC: Nuclear Weapon Effects materials wood paper cellulose films L1
CELLULOSE THERMAL CONVENTIONAL SIMULATION

DESC: EXPERIMENTAL THEORY

REPN: USNRDL TR 810 ; DASA 1546
SUJO: 3-246-000
TITL: STABLE PYROLYSIS PRODUCTS OF CELLULOSE EXPOSED TO INTENSE THERMAL
RADIATION (U), 49 P (U)

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DASA 1546

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

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INUM: DASA 1548
ADNO: 363949L
AUTH: SHAPIRO E.S.
CLSS: SRD-1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6505
DESC: THEORY SUMMARY
DESC: Nuclear Weapon Environment radiation decay isotopic half lives
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
REPN: USNRDL TR 853 ; DASA 1548
TSHO: UW
SUJO: 2-223-410 ; 3-312-200
TEMP: 49954
TITL: THEORETICAL EVALUATION OF RADIATION HAZARDS TO COASTAL POPULATIONS
FROM A LOW-YIELD NUCLEAR UNDERWATER BURST OFFSHORE (U), 37 P (SRD)

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DASA 1548

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1572
ADNO: 360924L
AUTH: BROUGH T.G. ; RAINEY S.C.
CLSS: SRD-1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)

DATE: 6503
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: EXPERIMENTAL
REPN: 0026070 ; USNRDL TR 825 ; DASA 1572
SHOT: TRINITY ; APPLE-1 ; PRISCILLA ; ABLE(T-S) ; SIMON
TSHO: LOW-ALT
SUJO: 2-110-000 ; 2-223-200
TEMP: 51001
TITL: EFFECT OF HEIGHT-OF-BURST ON THE PRODUCTION OF LOCAL FALLOUT BY

NUCLEAR BURSTS(U), 116 P (SRD)

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DASA 1572

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1585

ADNO: 456046

CLSS: U

CONN: DA 49 146 XZ 256

CORP: NORTHROP/NORTRONICS (NEWBURY PARK-CALIFORNIA)

DATE: 6501

DESC: EXPERIMENTAL

DESC: General Atmospheric Properties

DESC: test instruments nuclear radiation fallout debris sampling
collectors

DESC: Nuclear Weapon Environment Fallout Particles size distribution

REPN: DASA 1585 ; NVR 3594

SHOT: SUFFIELD 500T ; SNOWBALL

SUJO: 2-222-300 ; 4-345-000 ; 5-100-000

TITL: NORTHROP VENTURA S NUCLEAR CLOUD SAMPLING SYSTEM (U), 125 P (U)

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DASA 1585

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1589A

ABS: This Volume describes and provides a complete listing of the fireball code, a radiation hydrodynamics code that is appropriate for the calculation of nuclear fireball phenomenology in the lower atmosphere. The fireball code is a one-dimensional, spherical, Lagrangian, radiation-hydrodynamics code that employs a non-Grey transport equation to describe the radiation field. The non-linear partial differential equations are advanced explicitly except for the energy equation in which the radiative and hydrodynamic properties are advanced simultaneously by iteration.

ADNO: 825 746L

AUTH: HILLEND AHL R.W.

CLSS: U

CCDE: FIREBALL

CONN: DA 49 146 XZ 198

CORP: LOCKHEED MISSILES AND SPACE COMPANY (SUNNYVALE-CALIFORNIA)

DATE: 6508

DESC: THEORY CODE

DESC: Nuclear Weapon Phenomenology Fireball

REPN: DASA 1589 A ; LMSC B006750(A)

SUJO: 2-100-000
TITL: THEORETICAL MODELS FOR NUCLEAR FIREBALLS, TECHNICAL REPORT (U), 155
P (U)

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DASA 1589A

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copy: 1 id: 74524-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1590
AUTH: BOGUSCH R.L.
CLSS: SRD 1
CONN: DA 49 146 XZ 281
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6501
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry initial
gamma L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1
REPN: SP 311 ; DASA 1590
SHOT: BLUEGILL
TSHO: HIGH ALTITUDE DETONATION
SUJO: 2-312-200 ; 2-321-100
TEMP: 83344
TITL: RE-EXAMINATION OF ABSORPTION DUE TO GAMMA RADIATION FROM BLUE GILL
(U), 15 P, (SRD)

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DASA 1590

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copy: 1 id: 74526-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1592
ADNO: 464280
AUTH: JENKINS R.J.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6504
DESC: THEORY SURVEY
DESC: Simulation Facilities Techniques thermal optical
DESC: test instruments thermal temperature
REPN: DASA 1592 ; USNRDL TR 839
SUJO: 4-280-000 ; 4-384-000
TITL: CALORIMETERS AND RADIOMETERS FOR THE MEASUREMENT OF LARGE THERMAL
IRRADIANCES (U), 67 P (U)

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DASA 1592

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

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INUM: DASA 1594
ADNO: 370859
AUTH: SLOAN E.L. 3RD ; CULBERT J.A. ; LAVIER E.C.
CLSS: C
CONN: DA 49 146 XZ 341
CORP: NATIONAL COMPANY INCORPORATED (MELROSE-MA)
DATE: 6501
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources
DESC: EXPERIMENTAL
DESC: test instruments electronic vulnerability EMP
EFFT: NUCLEAR RADIATION
EMPF: 822
REPN: DASA 1594
SUJO: 4-241-000 ; 4-371-000
TEMP: 47355
TITL: SUSCEPTIBILITY OF THE ELECTRON SPIN OSCILLATOR MAGNETOMETER TO
INTENSE NUCLEAR RADIATION, FINAL REPORT (U), 60 P, (S)
TREE: 365

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DASA 1594

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copy: 1 id: 74530-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1600-07
AUTH: MCCORMAC B.M.
CLSS: SRD
CONN: DA 49 146 XZ 282
CORP: ILLINOIS INSTITUTE OF TECHNOLOGY RESEARCH INSTITUTE (CHICAGO-IL)
DATE: 6503
DESC: Nuclear RDT&E Research Program Descriptions EM propagation
atmospheric chemistry L5
REPN: R 65 1
SUJO: 4-120-000
SYMJ: CONTAINED IN DASA DATA CENTER REVIEW 65-1 (U), PP 7-12, (SRD)
TITL: ANNOUNCEMENT: ADVANCED STUDY INSTITUTE ON TRAPPED RADIATION (U), 6
P, (SRD)

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DASA 1600-07

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copy: 1 id: 74536-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1600-57
AUTH: BOGUSCH R.L.
CLSS: SRD
CONN: DA 49 146 XZ 282
CORP: GENERAL ELECTRIC COMPANY (SANTA BARBARA-CA)
DATE: 6503
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1 VHF
ROCKET MEASUREMENTS UHF MICROWAVE
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
REPN: R 65 1
PROJ: 6.3
SHOT: BLUEGILL
TSHO: HI-ALT
SUJO: 2-311-000 ; 2-321-100
SYMJ: CONTAINED IN DASA DATA CENTER REVIEW 65-1 (U), PP 57-72, (SRD)
TITL: RE-EXAMINATION OF ABSORPTION DUE TO GAMMA RADIATION FROM BLUE GILL
(U), 15 P, (SRD)

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DASA 1600-57

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copy: 1 id: 74541-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1606
ADNO: 367278L
AUTH: VASSILIADIS A. ; BATTELLE R.B.
CLSS: SRD
CONN: DA 49 146 XZ 324
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)
DATE: 6501
DESC: Nuclear Weapon Phenomenology Fireball Chemistry
DESC: test instruments EM propagation atmospheric chemistry lasers L1
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence
DESC: Nuclear Weapon Environment Infrared Output rate
DESC: Nuclear Weapon Environment Visible Output rate
DESC: Nuclear Weapon Environment Airblast dynamic pressure PRESSURE
DESC: THEORY EXPERIMENTAL
DESC: Solid Mechanics
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
DESC: Simulation Technology lasers
DESC: Radiation Transport visible
DESC: Nuclear Weapon Environment Airblast static overpressure ARRIVAL TIME
REPN: DASA 1606 ; SRI PROJ 5080
SHOT: KINGFISH ; STARFISH ; YUCCA ; TIGHTROPE
TSHO: HI-ALT

SUJO: 1-340-000 ; 1-440-000 ; 2-160-000 ; 2-214-000 ; 2-611-000 ;
2-612-000 ; 4-236-000 ; 4-326-000 ; 5-200-000 ; 9-200-000 ;
9-630-000

TEMP: 45846

TITL: STUDY OF THE APPLICABILITY OF LASER RADARS TO PROBE NUCLEAR WEAPON
EFFECTS AND NATURAL UPPER-ATMOSPHERE PHENOMENA, FINAL REPORT (U), 173
P (SRD)

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DASA 1606

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copy: 1 id: 74548-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1608

ADNO: 379458

AUTH: FISCHER P.G. ; KNAPP W.S. ; MELKONIAN A.A.

CLSS: SRD

CONN: DA 49 146 XZ 281

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

DATE: 6503

DESC: TABULAR SURVEY

DESC: General Atmospheric Properties

DESC: Composition Chemistry Atmosphere Reaction Rates

DESC: Nuclear Weapon Environment Induced Radiofrequency Noise

DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry

DESC: Nuclear Weapon Phenomenology Fireball

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

DESC: Ionosphere normal properties

DESC: Nuclear Weapon Effects EM Propagation

REPN: DASA 1608 ; 65 TMP 12

TSHO: LOW-ALT ; HI-ALT

SUJO: 2-100-000 ; 2-310-000 ; 2-320-000 ; 2-400-000 ; 5-100-000 ;
5-400-000 ; 5-710-000 ; 5-800-000

TEMP: 47497

TITL: AIDS FOR THE STUDY OF ELECTROMAGNETIC BLACKOUT (U), 105 P (SRD)

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DASA 1608

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copy: 1 id: 74550-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1617

ADNO: 480779

AUTH: SHERMAN C. ; HARRISON R.H.

CLSS: U

CONN: DA 49 146 XZ 255 (DASA)

CORP: GCA CORPORATION (BEDFORD-MASSACHUSETTS)

DATE: 6506
DESC: Radiation Transport plasma
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions
DESC: THEORY TABULAR
REPN: GCA 65 10 G ; GCA TR 65 10 G ; DASA 1617 ; 65 10 G
SUJO: 2-311-000 ; 9-660-000
TITL: SOLUTION OF THE DIFFUSION RECOMBINATION EQUATION (U), 35 P (U)

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DASA 1617

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copy: 1 id: 74559-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1629
ADNO: 466666
AUTH: CROSBIE K.L. ; RUSSELL J.L.
CLSS: U
CONN: DA 49 146 XZ 171 (DASA)
CORP: GD/GENERAL ATOMIC DIVISION (SAN DIEGO-CALIFORNIA)
DATE: 6502
DESC: test instruments nuclear radiation gamma
DESC: test instruments nuclear radiation beta electron beams
DESC: test instruments nuclear radiation neutron
DESC: test instruments test hardware pressure stress
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic

sources

DESC: THEORY EXPERIMENTAL
REPN: DASA 1629 ; GA 6218
SUJO: 4-241-000 ; 4-311-000 ; 4-341-000 ; 4-342-000 ; 4-344-000
TITL: ACCELERATOR PULSED FAST ASSEMBLY, FINAL REPORT, OCTOBER 1, 1963
THROUGH DECEMBER 31, 1964 (U), 60 P (U)

TREE: 642

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DASA 1629

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copy: 1 id: 74565-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1639
ADNO: 471306
AUTH: RAMSTAD R.W.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6507
DESC: SIMULATION ; EXPERIMENTAL THEORY
DESC: Radiation Transport thermal
DESC: Simulation Facilities Techniques thermal optical

42 P (U)

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CEX 62.50

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: CEX 63.3

AUTH: BURSON Z.G. ; SUMMERS R.L.

CLSS: U

CORP: EG+G, INC. (LAS VEGAS, NV.)

DATE: 6506

DESC: Cross Sections gamma L1

DESC: SIMULATION (CO-60) ; EXPERIMENTAL

REPN: CEX 63.3

SUJO: 9-830-000

TITL: BARRIER ATTENUATION OF AIR-SCATTERED GAMMA RADIATION (U), 93 P., (U)

TREE: 411

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CEX 63.3

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copy: 1 id: 72762-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: CEX 63.10

AUTH: LUCAS A.C. ; BURSON Z.G. ; LAGERQUIST R.E.

CLSS: U

CORP: EG+G, INC. (SANTA BARBARA, CA.)

DATE: 6608

DESC: Simulation Facilities Techniques biomedical nuclear radiation L1

DESC: EXPERIMENTAL

DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation L1

REPN: CEX 63.10

SUJO: 4-242-000 ; 4-251-000

TITL: DESIGN OF A SHIELDED SOURCE FOR THE IRRADIATION OF NATURAL ANIMAL
POPULATIONS (U), 40 P., (U)

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CEX 63.10

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copy: 1 id: 72760-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: CEX 63.11

AUTH: BURSON Z.G. ; SUMMERS R.L. ; BRASHEARS J.T.

CLSS: U
CORP: E G + G INC (SANTA BARBARA-CA)
DATE: 6502
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation gamma L1 P 14, 4425 L1
REPN: CEX 63.11
SUJO: 4-341-000
TITL: MOBILE RADIOLOGICAL MEASURING UNIT. DESCRIPTION AND OPERATING
INFORMATION (U),55 P (U)
TREE: 651

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CEX 63.11

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copy: 1 id: 72761-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1311 1
ADNO: 368294L
AUTH: KLEINECKE D.C.
CLSS: C
CCDE: FIELD ; FIELDG ; ANGLES ; MAPMAG ; SERMAG ; HANDE ; XFLUX ; JEEP
CORP: GENERAL ELECTRIC CO/TEMPO (SANTA BARBARA-CA)
DATE: 6511
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation
DESC: Radiation Transport x-ray
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: SURVEY CODE XFLUX JEEP FORTRAN FORTRAN II FORTRAN IV)
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
DESC: Nuclear Weapon Environment Thermal Output
REPN: DASA 1311 1 ; 65 5MP 25
SUJO: 1-200-000 ; 2-211-000 ; 2-310-000 ; 5-800-000 ; 9-640-000
TEMP: 29631
TITL: USEFUL HIGH-ALTITUDE NUCLEAR EFFECTS COMPUTER PROGRAMS, VOLUME 1
(REVISED) GEOMAGNETIC, IONIZATION, THERMAL, AND WAVE PROPAGATION
PROGRAMS (U) 92 P (C)

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DASA 1311 1

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copy: 1 id: 74173-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1311 6
ADNO: 481783
AUTH: KLEINECKE D.C.
CLSS: U
CCDE: GAMMA ; GAMSCT ; UNC-906 ; TRG-SGD

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

INUM: POIR 5002
AUTH: KERRIS K.G. ; COMPTON P.A. ; MARSHALL R.W.
CLSS: SRD-1
CORP: HUGHES AIRCRAFT CO (FULLERTON-CA)
DATE: 6601
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links
EFFT: TREE ; NUCLEAR RADIATION
REPN: POIR 5002
SHOT: DILUTED WATERS
TSHO: UG-CONTAINED ; LOW-ALT ; HI-ALT
SUJO: 3-221-000 ; 3-222-000 ; 4-829-500
TEMP: 49025 ; CY 1
TITL: MICROELECTRONIC CIRCUIT RADIATION TEST, OPERATION SILVER BELL, SHOT
DILUTED WATERS, PROJECT 2.2, PROJECT OFFICERS INTERIM REPORT (U), 93
P (SRD)
TREE: 320

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POIR 5002

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copy: 1 id: 89297-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: POIR 5003
AUTH: MCCARD H.K.
CLSS: SRD-1
CORP: AVCO CORPORATION (WILMINGTON-MASSACHUSETTS)
DATE: 6602
DESC: test instruments thermal temperature
DESC: test instruments test hardware displacement strain
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: test instruments test hardware pressure stress
DESC: Nuclear Test Simulation Field Programs experiment design aerospace
systems
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Effects reentry systems RV
DESC: test instruments test hardware acceleration measurement
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network
DESC: Cross Sections neutron

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches
REPN: POIR 5003
SHOT: DILUTED WATERS ; SLEIGH RIDE
TSHO: UG-CONTAINED ; HI-ALT
SUJO: 1-110-000 ; 1-740-000 ; 3-113-000 ; 3-162-000 ; 3-219-000 ;
3-229-000 ; 4-311-000 ; 4-314-000 ; 4-316-000 ; 4-346-000 ;
4-384-000 ; 4-829-100 ; 9-820-000
TEMP: 49323
TITL: RADIATION EFFECTS ON SLEIGH RIDE MOD 1 R SUBSYSTEMS, OPERATION
SILVER BELL, SHOT DILUTED WATERS, PROJECT 2.3, PROJECT OFFICERS
INTERIM REPORT (U), 375 P (SRD)

TREE: 396

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POIR 5003

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copy: 1 id: 89298-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 5004

AUTH: KENNEDY S.O. ; UNGVARSKY J.J. ; COSTELLO J.A.

CLASS: SRD-1

CONN: AF 29 (601) 6759

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

DATE: 6603

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity

DESC: Nuclear Weapon Effects electronic subsystems computers memory

DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links

REPN: POIR 5004

SHOT: DILUTED WATERS

TSHO: UG-CONTAINED ; LOW-ALT ; HI-ALT

SUJO: 1-110-000 ; 1-710-000 ; 3-212-000 ; 4-829-500

TEMP: 49509

TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONICS, OPERATION SILVER BELL,
SHOT DILUTED WATERS, PROJECT 2.4, PROJECT OFFICERS INTERIM REPORT
(U), 121 P (SRD)

TREE: 341

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POIR 5004

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copy: 1 id: 89299-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 5005
AUTH: BARAN M.F. ; BAUM C.E.
CLSS: SRD
CORP: AIR FORCE WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE, NM)
DATE: 6601
DESC: test instruments EM propagation atmospheric chemistry direct probes
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
DESC: Nuclear Test Simulation Field Programs experiment design EMP earth
currents geomagnetic effects
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: THEORY EXPERIMENTAL
EMPF: 251
REPN: POIR 5005
SHOT: DILUTED WATERS
TSHO: LOW-ALT ; HI-ALT
SUJO: 1-740-000 ; 2-310-000 ; 2-510-000 ; 4-327-000 ; 4-824-000
TEMP: 47956
TITL: MEASUREMENT OF AIR CONDUCTIVITY PARAMETERS IN HIGH-RADIATION FLUXES,
OPERATION SILVER BELL, PROJECT 2.5, PROJECT OFFICERS INTERIM REPORT
(U), 84 P, (SRD)

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POIR 5005

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

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INUM: POIR 5007
AUTH: SIMONS M.
CLSS: SRD-1
CORP: BELL TELEPHONE LABS (GREENSBORO-NC)
DATE: 6601
DESC: Nuclear Weapon Effects missile systems ABM
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links
DESC: Simulation Facilities Techniques TREE
DESC: Nuclear Weapon Effects electronic subsystems guidance control
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
REPN: POIR 5007
SHOT: DILUTED WATERS
TSHO: UG-CONTAINED ; HI-ALT
SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 3-112-200 ; 3-211-000 ;
4-272-000 ; 4-829-500
TEMP: 49167
TITL: EFFECTS OF NUCLEAR RADIATION ON THE NIKE-ZEUS MISSILE-BORNE GUIDANCE
EQUIPMENT, OPERATION SILVER BELL, SHOT DILUTED WATERS, PROJECT 2.8,

PROJECT OFFICERS INTERIM REPORT (U), 88 P (SRD)

TREE: 342

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POIR 5007

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copy: 1 id: 89302-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 5009

AUTH: SCHALLHORN D.R. ; BOESCH H.E. ; CONRAD E.E.

CLSS: SRD-1

CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.)

DATE: 6602

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

DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links

DESC: THEORY

REPN: POIR 5009 ; WT 5009 (POIR)

SHOT: DILUTED WATERS

TSHO: UG-CONTAINED

SUJO: 3-229-000 ; 4-829-500

TEMP: 49360

TITL: RADIATION-INDUCED CONDUCTIVITY IN POLYETHYLENE AND TEFLON
CAPACITORS, OPERATION SILVER BELL, SHOT DILUTED WATERS, PROJECT
2.10, PROJECT OFFICERS INTERIM REPORT (U), 36 P (SRD)

TREE: 370

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POIR 5009

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copy: 1 id: 89304-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 5010

AUTH: CHIMENT J.A. ; VAN LINT V.A.J. ; NICHOLS D.K. ; HARRITY J.W. ;
OVERMYER R.F. ; MALLON C.E. ; AMES M.R. ; MUHL W.O. ; JOHNSTON W.N.
; HODGSON W.H. ; STAHL R.H.

CLSS: SRD

CONN: DA 49 146 XZ 395

CORP: GENERAL DYNAMICS CORP/GENERAL ATOMIC DIVISION (SAN DIEGO-CA)

DATE: 6601

DESC: test instruments thermal temperature

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity

DESC: EXPERIMENTAL THEORY

DESC: Nuclear Weapon Effects materials plastics resins L1 MYLAR

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

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links
DESC: test instruments nuclear radiation neutron
EFFT: NUCLEAR RADIATION ; TREE
REPN: POIR 5010
SHOT: SILVER BELL ; DILUTED WATERS
TSHO: UG-CONTAINED ; HI-ALT ; LOW-ALT ; LOW-ALT
SUJO: 1-110-000 ; 1-140-000 ; 1-710-000 ; 1-740-000 ; 3-221-000 ;
3-244-000 ; 4-342-000 ; 4-346-000 ; 4-384-000 ; 4-829-500
TEMP: 47957
TITL: RADIATION EFFECTS CORRELATION TESTS, OPERATION SILVER BELL, PROJECT
2.11, PROJECT OFFICERS INTERIM REPORT (U) 274 P (SRD)
TREE: 310

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POIR 5010

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copy: 1 id: 89305-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POIR 5011
AUTH: KILMINSTER D.T. ; SACCENTI J.C. ; HILTON C.G.
CLSS: SRD-1
CORP: ARMY/NUCLEAR DEFENSE LAB (EDGEWOOD ARSENAL-MD)
DATE: 6601
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
REPN: POIR 5011
SHOT: DILUTED WATERS
TSHO: UG-CONTAINED
SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 4-820-300 ; 4-820-400
TEMP: 49035 ; CY 1
TITL: NEUTRON-FLUENCE AND GAMMA-RADIATION-EXPOSURE MEASUREMENTS, OPERATION
SILVER BELL, SHOT DILUTED WATERS, PROJECT 2.12, PROJECT OFFICERS
INTERIM REPORT (U), 84P (SRD)

TREE: 910 ; 920

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POIR 5011

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copy: 1 id: 89306-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: POIR 5012
AUTH: SCHWARTZ E.G.
CLSS: SRD-1
CORP: NORTHROP/NORTRONICS (VENTURA-CA), ARMY/BALLISTIC RESEARCH LABS
(ABERDEEN-MD)
DATE: 6602
DESC: test instruments thermal temperature
DESC: Nuclear Weapon Environment Prompt Neutron time of flight
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links
DESC: EXPERIMENTAL
DESC: test instruments test hardware acceleration measurement
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Initial Gamma
DESC: test instruments test hardware pressure stress
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Effects electronic subsystems computers memory
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors
REPN: POIR 5012
SHOT: DILUTED WATERS
TSHO: UG-CONTAINED ; HI-ALT
SUJO: 1-110-000 ; 1-140-000 ; 1-150-000 ; 1-710-000 ; 1-740-000 ;
1-750-000 ; 2-621-000 ; 3-212-000 ; 3-219-000 ; 3-221-000 ;
3-224-000 ; 3-229-000 ; 4-311-000 ; 4-314-000 ; 4-384-000 ;
4-829-500
TEMP: 49207
TITL: VULNERABILITY OF NUCLEAR EFFECTS INSTRUMENTATION TO NUCLEAR
RADIATION, OPERATION SILVER BELL, SHOT DILUTED WATERS, PROJECT 2.13,
PROJECT OFFICERS INTERIM REPORT (U), 225 P (SRD)
TREE: 341

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POIR 5012

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created: 12/27/1991 type: REPORT permanent
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INUM: POIR 5014
AUTH: CALDWELL P.A.
CLSS: SRD-1
CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.)
DATE: 6603
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: test instruments nuclear radiation neutron
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments
DESC: test instruments nuclear radiation gamma
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments
REPN: POIR 5014
SHOT: DILUTED WATERS
TSHO: UG-CONTAINED ; HI-ALT
SUJO: 1-110-000 ; 1-740-000 ; 4-341-000 ; 4-342-000 ; 4-820-300 ;
4-820-400
TEMP: 49407
TITL: TRANSIENT RADIATION EFFECTS DOSIMETRY, OPERATION SILVER BELL, SHOT
DILUTED WATERS, PROJECT 2.15, PROJECT OFFICERS INTERIM REPORT (U),
116 P (SRD)
TREE: 910 ; 920

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POIR 5014

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: POR 2026
ADNO: 367915L
AUTH: DYAL P. ; SIMMONS W.
CLSS: SRD
CORP: AIR FORCE/WEAPONS LAB (KIRTLAND AFB-NM)
DATE: 6512
DESC: test instruments EM propagation atmospheric chemistry direct probes
DESC: test instruments nuclear radiation gamma
DESC: Nuclear Weapon Environment Initial Gamma
DESC: test instruments nuclear radiation beta electron beams
DESC: test instruments nuclear radiation neutron
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations
DESC: ROCKET P-2 ROCKET P-3 ROCKET P-4 ROCKET P-6 ROCKET P-7 ROCKET P-1
ROCKET P-5 JOHNSTON I HONOLULU OAHU HAWAII TERN I CANTON I ;
EXPERIMENTAL

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: Nuclear Weapon Effects EM Propagation absorption blackout
DESC: Nuclear Weapon Environment Prompt Neutron time of flight
DESC: test instruments electronic vulnerability EMP
DESC: Nuclear Test Simulation Field Programs experiment design
high-altitude debris
PROJ: 62fb06.7 ; DASIAC holds instrumentation records ; further analyses
in AFWL TR 66 74 and 66 75
REPN: POR 2026 ; WT 2026
SHOT: STARFISH ; CHECKMATE
TSHO: HI-ALT
SUJO: 1-150-000 ; 1-750-000 ; 2-211-000 ; 2-321-100 ; 2-530-000 ;
4-327-000 ; 4-341-000 ; 4-342-000 ; 4-344-000 ; 4-371-000 ;
4-822-000
TEMP: B9050 ; 47728
TITL: DEBRIS EXPANSION EXPERIMENT, OPERATION DOMINIC, FISH BOWL SERIES,
PROJECT OFFICERS REPORT, PROJECT 6.7 (U), 96 P (SRD)

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POR 2026

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 2031
AUTH: BENA R.A.
CLSS: C
CORP: AIR FORCE/CAMBRIDGE RESEARCH LABORATORIES (BEDFORD-MA)
DATE: 6505
DESC: test instruments electronic vulnerability EMP L1
DESC: test instruments EM propagation atmospheric chemistry direct probes
L1
DESC: test instruments nuclear radiation beta electron beams L1
DESC: Nuclear Test Simulation Field Programs experiment design atmospheric
ionization RF propagation noise L5
DESC: DISCOVERER (SATELLITE) ; EXPERIMENTAL
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
DESC: Nuclear Test Simulation Field Programs experiment design
high-altitude debris L5
DESC: test instruments EM propagation atmospheric chemistry transmitters
receivers antennas L1
DESC: test instruments nuclear radiation gamma L1
REPN: POR 2031 ; WT 2031
PROJ: 6.12
SUJO: 4-324-000 ; 4-327-000 ; 4-341-000 ; 4-344-000 ; 4-371-000 ;
4-822-000 ; 4-823-000 ; 5-800-000
TEMP: B9024 ; 45276
TITL: PIGGYBACK SATELLITE PACKAGES, OPERATION DOMINIC, FISH BOWL SERIES,
PROJECT OFFICERS REPORT, PROJECT 6.12 (U), 267 P (S)

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POR 2031

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

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INUM: POR 2034
AUTH: PANNELL J.H. ; BALSER M. ; HARRIS P.J. ; WARNER J.L. ; WILBER L.C.
CLSS: SRD
CORP: LINCOLN LABORATORY (LEXINGTON-MA)
DATE: 6503
DESC: PALMYRA I ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1 SFRD
DESC: Nuclear Test Simulation Field Programs experiment design atmospheric
ionization RF propagation noise L5
REPN: POR 2034 ; WT 2034
PROJ: 7.2A
SHOT: STARFISH ; KINGFISH
TSHO: HI-ALT
SUJO: 2-420-000 ; 4-823-000
TEMP: B9048 ; A9179 ; 43786
TITL: SYNCHROTRON RADIATION, OPERATION DOMINIC, FISH BOWL SERIES, PROJECT
OFFICERS REPORT, PROJECT 7.2A (U), 89 P (SFRD)

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POR 2034

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 2501

ABS: The blast and throwout areas immediately surrounding the detonation points of the four operation Roller Coaster events were investigated extensively for Pu239 deposition and distribution. Device placement and explosive yield differed for each but the last two events from a single device on a steel plate in the open to nineteen devices with two and eight feet of earth overburden. The amount of Pu239 available for dissemination was essentially constant for all events. In the various mixtures of contaminant and metal, soil and concrete debris which resulted from such detonations, quantitative measurements by alpha detection were inadequate due to the limited range of the alpha particle. Unless a high degree of homogeneity was present in the debris, normal spot sampling techniques were likewise inadequate even with absolute determinations by radio-chemistry.

ABS: For these reasons the most reliable data were derived from large scale assays based on the electromagnetic radiations found in weapons grade Pu239. Special instrumentation was fabricated with optimum sensitivity for these radiations. This instrumentation, with similar circuitry and detectors, was used to assay metal debris and to monitor large land areas. Some correlative factors have been

obtained by radiochemistry for the conversion of instrument response to absolute Pu239 concentration. The scavenging of Pu239 by metal surfaces following detonation became the subject of a special study as a result of early field date evaluations. These intensive investigations were known as the Roller Coaster follow-on project. In this project, exclusive use was made of gamma detection techniques including radioautography with correlative radiochemical analyses.

ABS: The assays of the debris indicated no real advantage from the scavenging action of eight feet of earth overburden compared with only two feet of earth overburden. A major factor insignificantly improving the situation was the use of metal throughout such structures as a substitute or facing for concrete. Optimization of this approach, e.g., selection of metal and its configuration, should be the subject of special research studies. Under the most severe conditions of operation Roller Coaster, the residual contaminated area of immediate concern, after cloud passage for monitoring contamination control, restricted access, etc., was less than 2,500 feet from GZ in the downwind direction and about 100 feet from GZ in the upwind direction.

ABS: While accurate quantitative determinations are lacking, the conclusion appears valid that a surprisingly low percentage (less than 20 percent) of the total radio-active material exists in the debris and within 2,500 feet of GZ.

ADNO: 477688
AUTH: JOHNSON W.S. SR.
CLSS: 0
CORP: EBERLINE INSTRUMENT CORPORATION (SANTA FE-NEW MEXICO)
DATE: 6601
DESC: EXPERIMENTAL
DESC: Nuclear weapon safety radiological
DESC: Nuclear Weapon Environment fallout intensity contours patterns
REPN: POR 2501 ; WT 2501
SHOT: CLEAN SLATE 2 ; CLEAN SLATE 3 ; CLEAN SLATE 1 ; DOUBLE TRACKS
TSHO: SURFACE
SUJO: 2-225-100 ; 4-838-100
TITL: SOIL DEPOSITION, OPERATION ROLLER COASTER, PROJECT 2.1, PROJECT OFFICERS REPORT (U), 250 P (O)
TNFF: 8859

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POR 2501

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copy: 1 id: 89547-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 2502

ABS: The nuclear defense laboratory (NDL) conducted large-scale air-sampling operations in support of the experimental objectives of operation Roller Coaster, a joint US/UK non-nuclear research program devoted to studying and better defining the environmental hazards associated with the scattering of plutonium. Operation Roller

Coaster, carried out in the Western sector of the Las Vegas bombing and gunnery range during the spring of 1963, consisted of four full-scale tests designed to investigate the biological hazards of plutonium scattered by non-nuclear explosions of weapons as stored and to evaluate the effectiveness of earth-covered structures in reducing the radiological hazards.

ABS: Specific objectives of the air-sampling project were to provide services and related research required for the collection of air samples to be used in determining the size, activity, and physical nature of plutonium-bearing particles and their spatial distribution in the cloud. Approximately 1,400 air-sampling devices, positioned on both ground arrays and balloon-supported vertical arrays, were used in collecting air samples of the cloud during each of the four Roller Coaster events. This report describes the air-sampling instrumentation, the methods employed in its installation, testing and calibration, summaries of test operations, and tabulations of data taken.

ADNO: 472213

AUTH: MALONEY J.C. ; HENRY R.L. ; FIELDS R.E. ; EGERLAND W.O. ; HOPPER W.L.

CLSS: O

CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND) ; GD/FORT WORTH DIVISION (FORT WORTH-TEXAS)

DATE: 6510

DESC: Nuclear weapon safety

DESC: Nuclear weapon safety radiological

DESC: test instruments nuclear radiation fallout debris sampling collectors

DESC: TABULAR EXPERIMENTAL

REPN: POR 2502 ; WT 2502

TSHO: SURFACE

SUJO: 4-345-000 ; 4-838-000 ; 4-838-100

TITL: AIR SAMPLING MEASUREMENTS, OPERATION ROLLER COASTER, PROJECT OFFICERS REPORT, PROJECT 2.2 (U), 208 P (O)

TNFF: 8859

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POR 2502

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 2503

ABS: Integral and time differentiated incremental fallout collectors were exposed after each of the four Roller Coaster events. Each collector exposed a sticky film, two microscope slides, and a planchet. The planchets were alpha radioassayed in the project 5.1a field laboratory and served as an index for those stations which sampled significant fallout. The sticky films and microscope slides selected for subsequent radiochemical analysis and special particulate studies, respectively, were chosen on the basis of the planchet radioassay. Deposition contours are presented derived from the

planchet activities. Soil cores were taken before and after each event to represent high-, intermediate-, and low-level deposition areas. Only the 0-to 1/2-inch fraction of the core was reserved for subsequent analyses.

ADNO: 468481
AUTH: KREY P.W. ; FRIED R.E. ; SCHULTZ R.J.
CLSS: O
CORP: ISOTOPES INCORPORATED (WESTWOOD-NEW JERSEY)
DATE: 6508
DESC: test instruments nuclear radiation fallout debris sampling
collectors
DESC: EXPERIMENTAL TABULAR
DESC: Nuclear weapon safety radiological
REPN: POR 2503 ; WT 2503
SHOT: DOUBLE TRACKS ; CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3
TSHO: SURFACE
SUJO: 4-345-000 ; 4-838-100
TITL: FALLOUT COLLECTION, OPERATION ROLLER COASTER, PROJECT OFFICERS
REPORT, PROJECT2.3 (U), 106 P (O)

TNFF: 8859

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POR 2503

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copy: 1 id: 89549-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 2505

ABS: Surface plutonium contamination patterns were developed following each of four experiments simulating different storage configurations of weapons in accidental non-nuclear detonations. The weapon arrays included single and multiple units in the open and multiple units in storage conditions with two and eight feet of earth over burden. From 8 to 65 square miles of land area on the Tonopah Test Range, Nevada, were surveyed after each experiment. A common surface, 1-foot by 1-foot square brushed concrete pads, was used for alpha radiac measurements. Over 7,500 such pads were monitored by project personnel. Basic measurements were obtained with the portable gas proportional alpha counter. Supplementary and correlative measurements were made with portable and mobile low energy gamma detectors.

ABS: Contamination contours resulting from alpha survey operations are expressed in CPM per probe area of 60 cm². Conversion of field data to commonly used contours in units of microgram/m² was not considered advisable at the time of this report since considerable doubt exists concerning the use of a single conversion factor. With the calibration procedure used, the minimum detectable level of the portable low energy gamma detector (PAC-1S/PG-1) was found to be equivalent to approximately the 80,000 CPM/60 cm² contour by alpha survey. The more sensitive and sophisticated vehicle-mounted gamma scanner was able to reproduce a contour as low as the 1,000 CPM/60 cm² iso-intensity contour by alpha survey.

ABS: Operating in accessible terrain similar to that encountered on the Tonopah Test Range, the mobile equipment could define a plutonium contamination pattern in 30 minutes, whereas presently established alpha survey procedures required from four to six hours plus additional manpower and equipment. The low energy gamma detection technique for weapon grade plutonium may be applied to weapon accidents for preliminary and rapid situation evaluations when the technique is used by trained personnel.

ADNO: 477689

AUTH: JOHNSON W.S. SR.

CLSS: O

CORP: EBERLINE INSTRUMENT CORPORATION (SANTA FE-NEW MEXICO)

DATE: 6601

DESC: Nuclear weapon safety radiological

DESC: test instruments nuclear radiation fallout debris sampling
collectors

DESC: EXPERIMENTAL TABULAR

DESC: test instruments nuclear radiation gamma

DESC: test instruments nuclear radiation proton alpha heavy particle

REPN: POR 2505 ; WT 2505

SHOT: DOUBLE TRACKS ; CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3

TSHO: SURFACE

SUJO: 4-341-000 ; 4-343-000 ; 4-345-000 ; 4-838-100

TITL: ALPHA SURVEY, OPERATION ROLLER COASTER, PROJECT OFFICERS REPORT,
PROJECT 2.5 (U), 320 P (O)

TNFF: 8859

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POR 2505

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 2506

ABS: Some physical and chemical properties of fallout resulting from the high-explosive detonations of nuclear weapons containing plutonium were determined. They included: (1) the total mass of fallout collected per unit area. (2) the amount of plutonium and uranium collected per unit area. (3) the mass distribution of plutonium and uranium by particle size. (4) the relationships among mass, plutonium content, and density of fallout samples. (5) the solubility of plutonium under conditions associated with the radiological recovery of contaminated facilities. The particulate fallout samples from the double tracks, Clean Slate I, and Clean Slate II events (DT, Cs I, and Cs II) were collected on 4-foot-square, petrolatum-coated, aluminum sheets placed upon the ground. They were distributed in a pattern downwind of the detonation point at distances ranging from 100 to 10,000 feet.

ABS: After removal from the collector panels by a xylene rinse, the particulate was separated by centrifugation. The following data was then obtained; (1) combined gamma and x-ray activity as measured in a well-type NaI crystal counter, (2) total sample weight, (3) mass

versus particle size, and (4) activity versus particle size. The plutonium content of each sample was computed from the counting data. (AM241, a concomitant of reactor-generated plutonium, yields a 60-keV gamma ray, and Pu239 yields a 17-keV x-ray.) the amount of material collected ranged from 0.2 to 6.6 G/M2 for DT, 0.2 to 28 G/M2 for CSI, and 0.3 to 2,560 G/M2 for Cs II. In some cases, an unknown amount of desert soil was blown onto the collectors, making precise measurements of the amount of fallout deposited on each collector impossible.

ABS: The amount of plutonium deposited ranged from 0.5 to 1,116 microgram/m2 for DT, 2.5 to 2,042 microgram/m2 for Cs I, and 3 to 4,670 microgram/m2 for Cs II. The ratio of uranium to plutonium in unsieved fallout samples was close to that of the original ratio of the weights of the metal used to fabricate the RC devices. The ratio for different particle sizes in sieved samples was not constant, indicating fractionation of plutonium and uranium with particle size. Of the plutonium in unsieved samples, 1 to 27 percent was associated with very fine particles having a density greater than 4.30; this fraction represented less than 5 percent of the sample weight. A fallout sample from the 5,600-foot arc from each of the first three events was wet-sieved. Fifty percent of the gamma activity was associated with particles less than 84 micron for DT, 195 micron for Cs I, and 39 micron for Cs II.

ABS: In fact, 98 percent of the gamma activity was associated with particles less than 50 micron in the Cs II sample. There was a general, but not always consistent, decrease in the particle size of samples collected at increasing downwind distances. Leaching and ion exchange studies showed that the plutonium in the fallout was not dissolved by water alone or water solutions of sodium hydroxide and orvus. About 10 percent was dissolved by 0.1 n hydrochloric acid, however. When fallout was mixed and allowed to stand with a water slurry of montmorillonite clay, about 6 percent of the activity became associated with the clay.

ADNO: 473534

AUTH: FULLER R.K. ; OCONNOR J.D. ; NUCKOLLS M.J.

CLSS: O

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

DATE: 6511

DESC: Nuclear weapon safety radiological

DESC: EXPERIMENTAL TABULAR

DESC: Nuclear Weapon Environment Fallout Particles

REPN: POR 2506 ; WT 2506

SHOT: DOUBLE TRACKS ; CLEAN SLATE 1 ; CLEAN SLATE 2

TSHO: SURFACE

SUJO: 2-222-000 ; 4-838-100

TITL: SPECIAL PARTICULATE CHARACTERISTICS, OPERATION ROLLER COASTER, PROJECT OFFICERS REPORT, PROJECT 2.6A (U), 226 P (O)

TNFF: 8859

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POR 2506

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INUM: POR 2507

ABS: Several thousand plutonium-bearing particles, representing over 200 physical samples, from operation Roller Coaster were examined. Cascade impactors, filters, and deposition collectors were included. Nuclear track autoradiography and optical microscopy measurements of particle size, shape, color and estimated activity were made for particles as small as 0.6 micron projected area diameter. Spherical particles as small as 0.05 micron diameter were measured by electron microscopy and the data compared with nuclear track counts for the same sample. Estimates of the density of particles were made from observation of CASELLA MK II impactor stages. Phosphor intensification autoradiography was applied to over 500 samples. No calibration to derive particle size was made due to the inhomogeneous particle composition.

ABS: Single particles larger than 14 microns were isolated for alpha counting, radiochemical analysis, x-ray diffraction, and electron microprobe analysis under other projects. Calculation of alpha self-absorption factor, gm u/ gm Pu, and particle density were obtained from the data. A wide range of particle compositions was encountered. Evidence that a few particles contained unreacted Pu was found. Most particles contained less than 20 percent plutonium.

ADNO: 486477
AUTH: SHERWOOD R.D.
CLSS: O
CORP: ISOTOPES INCORPORATED (WESTWOOD-NEW JERSEY)
DATE: 6605
DESC: EXPERIMENTAL
DESC: Nuclear weapon safety radiological
REPN: POR 2507 ; WT 2507
TSHO: SURFACE
SUJO: 4-838-100
TITL: SPECIAL PARTICULATE ANALYSIS, OPERATION ROLLER COASTER, PROJECT 2.6B, PROJECT OFFICERS REPORT (U), 492 P (O)
TNFF: 8859

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POR 2507

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INUM: POR 2508

ABS: The procedures developed and used in obtaining data on individual particles resulting from the four events of operation Roller Coaster are presented with discussions of their accuracy and reliability. A very large amount of data on particle size, shape, color, and plutonium content was obtained. Less extensive data on uranium content was obtained by standard fluorometry. Special techniques for

obtaining the density of irregular particles, identifying submicron radioactive particles, and observing the elemental distribution quantitatively in individual particles were investigated in depth? recommendations on further development of these techniques are included.

ADNO: 470143
AUTH: DUNN C.D. ; BERSIN R.L.
CLSS: O
CORP: TRACERLAB (RICHMOND-CALIFORNIA)
DATE: 6509
DESC: Nuclear weapon safety radiological
DESC: EXPERIMENTAL TABULAR
REPN: POR 2508 ; WT 2508
SHOT: DOUBLE TRACKS ; CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3
TSHO: SURFACE
SUJO: 4-838-100
TITL: SPECIAL PARTICULATE CHARACTERISTICS, OPERATION ROLLER COASTER,
PROJECT OFFICERS REPORT, PROJECT 2.6C (U), 168 P (O)
TNFF: 8859

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POR 2508

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 2509

ABS: The objectives of the special particulate soil studies were investigations of possible effects that the mineralogy of soils in the test areas might have on the hazards resulting from a nonnuclear accident involving special nuclear materials. Of particular interest was any scavenging of plutonium that might result from interaction with soil materials. For the purposes of operation Roller Coaster, scavenging is defined as any interaction between special nuclear materials and soil materials that results in modification of the characteristics of radioactive particles, the aerosol derived therefrom, or the resulting hazard. Other special topics investigated in the soil particulate studies were relationships between uranium and plutonium and the possible use of indigenous vegetation as an emergency deposition collector.

ABS: nuclear-track-alpha (NTA) autoradiography preparations were made for all size fractions of soils smaller than 74 microns and microscopically studied to measure and characterize alpha-emitting particles. A limited amount of heavy liquid separation work was done on sized fractions. Selected single particles were studied by a special x-ray diffraction technique to identify the crystalline phases present. Statistical methods of correlation analysis were used to study the plutonium distributions and mineralogical distributions as functions of size, thus indicating those mineral species in the soils with which the plutonium had interacted. Results of the studies showed that the size distributions of plutonium deposited in downwind soils generally were not log-normal,

and up to a maximum of 90 percent of the plutonium was contained in a single square root of 2-size class interval.

ABS: This situation indicates that aerodynamic particle size sorting took place. In contrast, the plutonium distributions of Ground Zero soils from Clean Slate II and III were more disperse and were log-normal. The averaged mass median diameter of plutonium-bearing particles was larger for Clean Slate II than for Clean SLATE III, suggesting that soil scavenging of plutonium was more effective in Clean Slate II. There is no significant correlation of deposited plutonium with individual mineral species in the downwind areas of all four events, indicating that after deposition, plutonium-bearing particles do not become selectively attached to any one mineral because of surface chemistry characteristics. Therefore, soil mineralogy in local areas of deposition has no observable effect on any resuspension hazard.

ABS: Plutonium and uranium scavenging occurred to a significant extent by interaction with soil materials through the mechanism of melting to form a silicate glass, and such interactions have altered particle characteristics in the following manner: a) to reduce plutonium and uranium concentration, b) to reduce density, and C) to increase the mass median diameter. The scavenging mechanism could be enhanced by using storage structure overburden of granitic compositions with some added silicate fluxing mineral such as sodalite. The two-foot overburden thickness appears to be at least as effective as the eight-foot thickness. Uncertainties in soil uranium background determinations prevented calculation of u/pu for downwind soil samples from the Roller Coaster events.

ABS: The amounts of uranium in crater lip soil cores from Clean Slate II and III were high enough to minimize effects of uncertainties in backgrounds. In the areas involved in soil mining operations, u/pu ratios range from approximately two to four times the source ratios. However, the sized fractions of these soils have u/pu which approach source ratios for the medium-to fine-grained fractions, whereas the very fine and very coarse-grained fractions tend to have extremely high u/pu up to several orders of magnitude higher than source ratios. The very high u/pu ratios in coarse- and fine-grained GZ soil size fractions is explained by the fact that uranium is present in a more disperse particle population than plutonium. Because of the complexity of the u/pu relationships, no conclusions concerning the suitability of uranium as a simulant for plutonium can be drawn from these experiments.

ABS: A somewhat limited study indicated that indigenous vegetation could be a useful emergency deposition collector, but the precision of individual determinations would be poor.

ADNO: 484679

AUTH: PERRY J.K. ; BAILLIE W.N. ; TRIMBLE J.K. ; BLOODWORTH R.P.

CLSS: O

CORP: COLORADO SCHOOL OF MINES (GOLDEN-COLORADO)

DATE: 6605

DESC: Nuclear weapon safety radiological

DESC: EXPERIMENTAL DATA (PHOTOGRAPHS)

REPN: POR 2509 ; WT 2509

TSHO: SURFACE

SUJO: 4-838-100

TITL: SPECIAL PARTICULATE ANALYSIS (SOIL), OPERATION ROLLER COASTER,

PROJECT 2.6D, PROJECT OFFICERS REPORT (U), 454 P (O)

TNFF: 8859

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POR 2509

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INUM: POR 2510

ADNO: 462450

AUTH: LAURSEN H.G.

CLSS: U

CORP: SANDIA CORPORATION (ALBUQUERQUE-NEW MEXICO)

DATE: 6505

DESC: Nuclear weapon safety radiological

REPN: POR 2510 ; WT 2510

SHOT: DOUBLE TRACKS ; CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3

TSHO: SURFACE

SUJO: 4-838-100

TITL: BALLOON SUPPORT, OPERATION ROLLER COASTER, PROJECT OFFICERS REPORT,
PROJECT 2.7 (U), 38 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 2513

ABS: A mobile sample processing facility was designed and successfully operated during operation Roller Coaster to provide (1) a Unified Method of processing and packaging samples, (2) onsite counting of selected samples, and (3) a complete record of all samples collected during the operation and their disposition. All of these objectives were achieved with no personnel contamination problems or cross-contamination of samples. Services provided by this facility (two trailers) included high and low-level counting areas, an instrument repair area, receiving and shipping facilities, and special processing facilities (two 9-foot hoods and 14 glove boxes). The once-through air supply and exhaust system provided 6,000 to 8,000 cfm of conditioned air and made the wearing of special protective equipment unnecessary.

ABS: Continuous-recording air monitors showed no significant increase in the airborne activity as a result of processing about 20,000 samples.

ADNO: 467825

AUTH: BAIETTI A.L. ; ZIRKES A.

CLSS: O

CORP: TRACERLAB (RICHMOND-CALIFORNIA)

DATE: 6507
DESC: test instruments nuclear radiation fallout debris sampling
collectors
DESC: EXPERIMENTAL
DESC: Nuclear weapon safety radiological
REPN: POR 2513 ; WT 2513
SHOT: CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3 ; DOUBLE TRACKS
TSHO: SURFACE
SUJO: 4-345-000 ; 4-838-100
TITL: SAMPLE PROCESSING FACILITY, OPERATION ROLLER COASTER, PROJECT 5.1A,
PROJECT OFFICERS REPORT (U), 182 P (O)
TNFF: 8859

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POR 2513

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copy: 1 id: 89559-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: POR 2514

ABS: Evaluation of data obtained by catching particles from a radioactive
cloud on sticky wires is presented. This technique was used
successfully in operation Roller Coaster. Wire preparation and
handling, activity measurement, data analysis, and preparation of
activity contours for the clouds are discussed. Results of a
laboratory program to determine the correlation between ionization
chamber measurements of the and the mass of plutonium deposited on
them by the cloud are presented? conversion factors obtained by both
radiochemical analysis and wipe data compared well. The effect of
altitude on air-ionization measurements is investigated both
theoretically and experimentally.

ADNO: 482576L

AUTH: BAIETTI A.L. ; ZIRKES A.

CLSS: O

CORP: TRACERLAB (RICHMOND-CALIFORNIA)

DATE: 6605

DESC: Nuclear weapon safety radiological

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation fallout debris sampling
collectors

DESC: test instruments nuclear radiation proton alpha heavy particle

REPN: POR 2514 ; WT 2514

SHOT: DOUBLE TRACKS ; CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3

TSHO: SURFACE

SUJO: 4-343-000 ; 4-345-000 ; 4-838-100

TITL: STICKY WIRE EVALUATION, OPERATION ROLLER COASTER, PROJECT OFFICERS
REPORT, PROJECT 5.1B (U), 84 P (O)

TNFF: 8859

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POR 2514

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: POR 2515

ABS: Operation Roller Coaster was a research program sponsored jointly by the U.S. Atomic Energy Commission, the U.S. Department of Defense, and the United Kingdom atomic energy authority to study the fate of fissile material scattered by non-nuclear explosions of plutonium-bearing devices in different environments. The field phase was conducted in Nevada in the spring of 1963. Hazleton-Nuclear Science Corporation carried out laboratory analyses for plutonium and uranium and conducted special studies related to general analysis. A total of 2,278 analyses was performed; of these, 1,809 were Pu analyses, 151 were u analyses, and 318 were special-study analyses. Both physical and biological samples were analyzed. The physical samples consisted of impactor stages, total air filters, and various types of fall-out deposition collectors.

ABS: The biological specimens consisted of soft tissues, bone, and excreta from dogs, sheep, and burros which had been exposed to the debris aerosol. The amounts of plutonium per sample ranged from less than 3.02 DPM to 6×10^8 DPM. The amounts of uranium per sample ranged from 0.004 microgram to 14,400 micrograms. Because of these very wide ranges in u and Pu contents, special care was needed to avoid sample cross-contamination, and separate laboratories were used for biological and physical analyses. Except in large soil samples, plutonium was determined radiochemically using Pu236 as a yield tracer. The radio-chemically separated plutonium was measured by alpha spectrometry using large area semiconductor detectors. Uranium was measured fluorometrically. Two of the special studies involved the AM241 daughter of Pu241.

ABS: The PU239,240/AM241 activity ratio was determined radiochemically in selected deposition and air samples. There was no evidence of AM-PU fractionation. Plutonium was determined in selected soil samples by gamma-spectrometric measurement of the 60-keV gamma-ray of AM241, using a semi-empirical method for determining sample self-absorption and geometry corrections) the amounts of Pu239,240 found in the soils ranged from 3×10^4 to 6×10^8 DPM, and the sample weights ranged from 2 to 2,000 grams. Each chronic field position documented daily mean air concentrations.

ADNO: 484234

AUTH: MENKER H.E. ; ARMSTRONG J.C. ; BUCHANAN J.D. ; FORSLOW E.J. ; SORENSEN B.H.

CLSS: O

CORP: HAZLETON NUCLEAR SCIENCE CORPORATION (PALO ALTO-CALIFORNIA)

DATE: 6605

DESC: test instruments nuclear radiation proton alpha heavy particle

DESC: Nuclear weapon safety radiological

DESC: test instruments nuclear radiation gamma

DESC: EXPERIMENTAL

REPN: POR 2515 ; WT 2515

TSHO: SURFACE

SUJO: 4-341-000 ; 4-343-000 ; 4-838-100

TITL: RADIOCHEMICAL ANALYSIS OF BIOLOGICAL AND PHYSICAL SAMPLES, OPERATION
ROLLER COASTER, PROJECT 5.2/5.3A, PROJECT OFFICERS REPORT (U), 218 P
(O)

TNFF: 8859

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POR 2515

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copy: 1 id: 89561-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 2516

ABS: Data on the plutonium and uranium content of biological and physical
samples, collected and isolated from non-nuclear detonations of
plutonium bearing weapons under various storage situations, are
presented. Over 4,000 radiobiological, radiochemical, and
fluorimetric analysis are tabulated.

ADNO: 364669L

AUTH: MAJOR W.J. ; WESSMAN R.A.

CLSS: CRD-1

CORP: TRACERLAB (RICHMOND-CALIFORNIA)

DATE: 6508

DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity

DESC: EXPERIMENTAL

DESC: Nuclear weapon safety radiological

REPN: POR 2516 ; WT 2516

TSHO: SURFACE

SUJO: 4-821-000 ; 4-838-100

TEMP: B8514

TITL: RADIOBIOLOGICAL, RADIOCHEMICAL, AND PHYSIOCHEMICAL ANALYSES,
OPERATION ROLLER COASTER, PROJECT OFFICERS REPORT, PROJECT 5.2/5.3B
(U), 272 P (CRD)

TNFF: 8859

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POR 2516

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copy: 1 id: 89562-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 2517

ADNO: 470142

AUTH: GEIGER E.L.

CLSS: U

CORP: EBERLINE INSTRUMENT CORP. (SANTA FE, NM)

DATE: 6509

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1 PLUTONIUM URANIUM DOGS SHEEP BURROS

DESC: SIMULATION ; EXPERIMENTAL

REPN: POR 2517 ; WT 2517
SHOT: ROLLER COASTER
SUJO: 3-312-220
TITL: RADIOCHEMISTRY; OPERATION ROLLER COASTER; PROJECT OFFICERS
REPORT-PROJECT 5.2/5.3C (U), 178 P., (U)

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POR 2517

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copy: 1 id: 89563-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 2518

ABS: Plutonium, uranium, americium, and gamma spectrometric analyses were performed on over two thousand operation Roller Coaster physical and biological samples. Separate laboratory facilities were maintained for the biological and physical samples to prevent crosscontamination of the activities of the two sample types. In general, samples of low activity were analyzed first, and samples of approximately equal activities were analyzed in groups to further minimize cross-contamination. A quality control program involving the analyses of standards, splits, and blanks demonstrated the precision of the plutonium analysis to be 4.4 percent at the 95-percent confidence level with no trend in the precision with time and no significant contribution to the determined sample activities from laboratory contamination.

ADNO: 469127

AUTH: KREY P.W. ; FRIED R.E.

CLSS: O

CORP: ISOTOPES INCORPORATED (WESTWOOD-NEW JERSEY)

DATE: 6508

DESC: test instruments nuclear radiation gamma

DESC: EXPERIMENTAL

DESC: Nuclear weapon safety radiological

DESC: test instruments nuclear radiation proton alpha heavy particle

REPN: POR 2518 ; WT 2518

SHOT: DOUBLE TRACKS ; CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3

TSHO: SURFACE

SUJO: 4-341-000 ; 4-343-000 ; 4-838-100

TITL: LABORATORY ANALYSES OF ROLLER COASTER SAMPLES, OPERATION ROLLER
COASTER, PROJECT OFFICERS REPORT, PROJECT 5.2/5.3D (U), 143 P (O)

TNFF: 8859

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POR 2518

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

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INUM: POR 2519

ABS: Sandia Corporation provided the technical photographic coverage and the reduction of the optical data for operation Roller Coaster. Since all events took place at night, artificial lighting was provided for cloud illumination. Optical data were reduced to give cross-sectional configurations versus time at various heights, height of cloud top versus time, and the positions of sampling devices in a balloon-suspended array in the cloud path.

ADNO: 467824
AUTH: BEASLEY R.R.
CLSS: O
CORP: SANDIA CORPORATION (ALBUQUERQUE-NEW MEXICO)
DATE: 6508
DESC: EXPERIMENTAL
DESC: Nuclear weapon safety radiological
REPN: POR 2519 ; WT 2519
SHOT: DOUBLE TRACKS ; CLEAN SLATE 1 ; CLEAN SLATE 2 ; CLEAN SLATE 3
TSHO: SURFACE
SUJO: 4-838-100
TITL: TECHNICAL PHOTOGRAPHY, OPERATION ROLLER COASTER, PROJECT OFFICERS
REPORT, PROJECT 9.5 (U), 100 P (O)
TNFF: 8859

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POR 2519

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

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INUM: POR 2600
ADNO: 376189L
AUTH: MARTIN D.G.
CLSS: SRD-1
CONN: AF 29 (601) 6315
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NEW MEXICO) ;
BOEING AIRCRAFT COMPANY (SEATTLE-WASHINGTON)
DATE: 6610
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Effects electrical mechanical cables wires
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
REPN: POR 2600 ; WT 2600
SHOT: BACKSWING
TSHO: UG-CONTAINED ; LOW-ALT ; HI-ALT

SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 3-221-000 ; 3-229-000 ;
3-231-000 ; 4-829-500

TEMP: 51409

TITL: TRANSIENT RADIATION EFFECT MEASUREMENTS, OPERATION BACKSWING,
PROJECT OFFICERSREPORT, PROJECT 2.1 (U), 134 P (SRD)

TREE: 310 ; 390

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POR 2600

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copy: 1 id: 89566-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 2703

ADNO: 376567L

AUTH: BENSON R.K.

CLSS: SRD-1

CORP: ARMY/PICATINNY ARSENAL (DOVER-NEW JERSEY) ; NORTHROP/NORTRONICS
(NEWBURY PARK-CALIFORNIA)

DATE: 6610

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity

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

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence

DESC: Nuclear Weapon Effects missile systems ABM

DESC: Nuclear Weapon Effects electronic subsystems computers memory

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Weapon Effects electrical mechanical cables wires

DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width

DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation neutron

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width

REPN: POR 2703 ; WT 2703

SHOT: WISH BONE

TSHO: UG-CONTAINED ; LOW-ALT ; HI-ALT

SUJO: 1-110-000 ; 1-140-000 ; 1-710-000 ; 1-740-000 ; 2-621-000 ;
3-112-200 ; 3-212-000 ; 3-221-000 ; 3-231-000 ; 4-341-000 ;
4-342-000

TEMP: 51507

TITL: VULNERABILITY OF SETTABLE INERTIAL ALTITUDE SENSOR, OPERATION SILVER
BELL, SHOT WISH BONE, PROJECT 2.4, PROJECT OFFICERS REPORT (U), 288
P (SRD)

TREE: 342

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POR 2703

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copy: 1 id: 89571-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: POR 2705
ADNO: 378645L
AUTH: PITSENBERGER J. ; YAMADA D.A.
CLSS: SRD
CORP: NAVY/SPECIAL PROJECTS OFFICE (WASHINGTON-D.C.) ; LOCKHEED MISSILES
AND SPACE COMPANY (SUNNYVALE-CALIFORNIA)
DATE: 6611
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network
REPN: POR 2705 ; WT 2705
SHOT: WISH BONE
TSHO: UG-CONTAINED ; LOW-ALT ; HI-ALT
SUJO: 1-110-000 ; 1-120-000 ; 1-140-000 ; 1-710-000 ; 1-740-000 ;
3-219-000 ; 3-221-000 ; 3-229-000
TEMP: 51859
TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONIC COMPONENTS AND CIRCUITS,
OPERATION SILVER BELL, SHOT WISHBONE, PROJECT OFFICERS REPORT,
PROJECT 2.6 (U), 208 P (SRD)

TREE: 300

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POR 2705

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copy: 1 id: 89573-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: POR 2707
AUTH: BARAN M.F. ; BAUM C.E.
CLSS: SRD-1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 6603
DESC: test instruments EM propagation atmospheric chemistry direct probes
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: THEORY
EMPF: 251
REPN: POR 2707 ; WT 2707

SHOT: WISH BONE
TSHO: UG-CONTAINED
SUJO: 2-510-000 ; 4-327-000
TEMP: 49281 ; CY 1
TITL: MEASUREMENT OF AIR CONDUCTIVITY PARAMETERS IN HIGH RADIATION FLUXES,
OPERATION SILVER BELL, SHOT WISH BONE, PROJECT 2.8, PROJECT OFFICERS
REPORT (U), 56 P (SRD)

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POR 2707

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copy: 1 id: 89575-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 5001
ADNO: 378013L
AUTH: TASLITT N.
CLSS: SRD
CORP: NAVY/NAVAL ORDNANCE LABORATORY (WHITE OAK-MARYLAND)
DATE: 6612
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses
DESC: EXPERIMENTAL
REPN: POR 5001 ; WT 5001
SHOT: DILUTED WATERS
TSHO: UG-CONTAINED ; HI-ALT
SUJO: 1-110-000 ; 3-162-000 ; 3-219-000 ; 4-829-500
TEMP: 53772
TITL: RADIATION EFFECTS ON NOL ELECTRONIC SYSTEMS, OPERATION SILVER BELL,
SHOT DILUTED WATERS, PROJECT OFFICERS REPORT, PROJECT 2.1 (U), 80 P
(SRD)

TREE: 394

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POR 5001

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copy: 1 id: 89653-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 5011
ADNO: 377452L
AUTH: KILMINSTER D.T. ; SACCENTI J.C. ; HILTON C.G.
CLSS: SRD-1
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND)
DATE: 6612

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
REPN: POR 5011 ; WT 5011
SHOT: DILUTED WATERS
TSHO: UG-CONTAINED ; LOW-ALT
SUJO: 1-110-000 ; 1-120-000 ; 1-710-000 ; 4-820-300 ; 4-820-400
TEMP: 53126
TITL: NEUTRON-FLUENCE AND GAMMA-RADIATION-EXPOSURE MEASUREMENTS, OPERATION
SILVER BELL, SHOT DILUTED WATERS, PROJECT 2.12, PROJECT OFFICERS
REPORT (U), 126 P (SRD)

TREE: 910 ; 920

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POR 5011

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copy: 1 id: 89662-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 6101

ADNO: 372208L

AUTH: JACOBSON J.R. ; KAPPES J. ; RIGOTTI D.L. ; HILTON C.G. ; VEGA E.P. ;
PELLETIERA.M.

CLSS: SRD-1

CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND)

DATE: 6605

DESC: test instruments nuclear radiation neutron

DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation dosimeters radiacs

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources

DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence

REPN: POR 6101 ; WT 6101

SHOT: FIG ; HAMILTON ; LITTLE FELLER-I ; LITTLE FELLER-II ; SMALLBOY

TSHO: SURFACE

SUJO: 1-110-000 ; 1-710-000 ; 4-241-000 ; 4-342-000 ; 4-346-000 ;
4-820-300 ; 4-820-400

TEMP: 51360

TITL: NEUTRON-FLUENCE AND GAMMA-EXPOSURE MEASUREMENTS FOR KIWI-TNT,
OPERATION ROVER, KIWI-TNT EXPERIMENT, PROJECT OFFICERS REPORT,
PROJECT 2.2A (U), 89 P (SRD)

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POR 6101

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

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INUM: POR 6102

ADNO: 488355L

AUTH: KRONENBERG S. ; JOHNSON O.E. ; NILSON K. ; PERLMAN J. ; MURPHY H.

CLSS: U

CORP: ARMY/ELECTRONICS LABORATORIES (FORT MONMOUTH-NEW JERSEY) ; AIR
FORCE/WEAPONS LABORATORY, (KIRTLAND AIR FORCE BASE-NEW MEXICO)

DATE: 6609

DESC: test instruments nuclear radiation dosimeters radiacs

DESC: test instruments nuclear radiation neutron

DESC: EXPERIMENTAL

REPN: POR 6102 ; WT 6102

TSHO: SURFACE

SUJO: 4-342-000 ; 4-346-000

TITL: FIELD CHECK OF TACTICAL DOSIMETERS IM-185 (XE), INDIVIDUAL
DOSIMETERS DT-236 (XE), AND OTHER DOSIMETRY SYSTEMS, OPERATION
ROVER, KIWI-TNT EXPERIMENT, PROJECT OFFICERS REPORT, KIWI, TNT
PROJECT 2.4 (U), 43 P (U)

TREE: 655

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POR 6102

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

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INUM: WT 1488

ADNO: A077509

AUTH: LARSON K.H. ; NEEL J.W. ; HAWTHORNE H.A. ; MORK H.M. ; ROWLAND R.H.
; BAURMASHL. ; LINDBERG R.G. ; OLAFSON J.H. ; KOWALEWSKY B.W.

CLSS: U

CORP: UNIVERSITY OF CALIFORNIA AT LOS ANGELES (LOS ANGELES, CA)

DATE: 6607

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 Phenomenology cloud Motion

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic

DESC: Nuclear Weapon Environment Fallout Particles size distribution L1

DESC: Nuclear Weapon Environment fallout intensity contours patterns L1

DESC: Nuclear weapon test timing position firing data
DESC: Nuclear Weapon Effects EM Propagation absorption blackout
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities
DESC: test instruments thermal temperature
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
DESC: test instruments x-ray effects
DESC: Nuclear Weapon Environment Prompt Neutron time of flight
DESC: Nuclear weapon test placement including cab construction for actual
detonation
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence
DESC: Environmental Conditions at Nuclear Weapon Test Site weather
DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
ARRIVAL TIME
DESC: Cross Sections x-ray
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: Nuclear Weapon Environment Visible Output energy spectrum
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray
DESC: test instruments nuclear radiation neutron
REPN: WT 2046 ; DASA 87769
SHOT: STARFISH ; STARFISH ; CHECKMATE ; KINGFISH ; STARFISH ; STARFISH ;
STARFISH ; BLUEGILL ; CHECKMATE ; KINGFISH ; TIGHTROPE ; TIGHTROPE
TSHO: HI-ALT
SUJO: 1-120-000 ; 1-150-000 ; 1-410-000 ; 1-420-000 ; 1-610-000 ;
1-740-000 ; 2-110-000 ; 2-130-000 ; 2-150-000 ; 2-211-000 ;
2-212-000 ; 2-214-000 ; 2-312-400 ; 2-321-100 ; 2-611-000 ;
4-330-000 ; 4-341-000 ; 4-342-000 ; 4-344-000 ; 4-345-000 ;
4-382-000 ; 4-384-000 ; 4-820-000 ; 4-833-000 ; 4-834-000 ;
4-835-000 ; 4-841-000 ; 5-200-000 ; 9-840-000
TEMP: B8816 ; A9137 ; 49218
TTTL: HIGH ALTITUDE MEASUREMENTS, OPERATION DOMINIC, FISH BOWL SERIES,
PROGRAM 32, WEAPON TEST REPORT (U), 464 P (SRD)
TREE: 900
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WT 2046
.endblock
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copy: 1 id: 92283-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects ecological
DESC: test instruments nuclear radiation fallout debris sampling
collectors
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: test instruments nuclear radiation gamma
DESC: test instruments nuclear radiation beta electron beams
DESC: Nuclear Weapon Environment fallout Deposition
DESC: test instruments nuclear radiation dosimeters radiacs
DESC: Nuclear Weapon Environment Fallout Radioproperties
REPN: WT 1488
SHOT: BOLTZMANN ; WILSON ; PRISCILLA ; HOOD ; DIABLO ; SHASTA ; SMOKY ;
GALILEO ; FIZEAU ; RAINIER ; WHITNEY
TSHO: UG-CONTAINED ; LOW-ALT
SUJO: 2-222-000 ; 2-222-300 ; 2-223-000 ; 2-223-100 ; 2-224-000 ;
2-225-000 ; 2-225-100 ; 3-312-200 ; 3-332-200 ; 3-341-000 ;
4-341-000 ; 4-344-000 ; 4-345-000 ; 4-346-000 ; 4-821-000
TITL: DISTRIBUTION, CHARACTERISTICS, AND BIOTIC AVAILABILITY OF FALLOUT,
OPERATION PLUMBBOB (U), 276 P., (U)

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WT 1488

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copy: 1 id: 92121-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: WT 2046
AUTH: MEHL C.R. ; SHREVE J.D. JR. ; KRAMM M.L. ; MILLER G.R.
CLSS: SRD-1
CORP: SANDIA CORP (ALBUQUERQUE-NM)
DATE: 6501
DESC: test instruments nuclear radiation beta electron beams
DESC: test instruments nuclear radiation fallout debris sampling
collectors
DESC: test instruments visible
DESC: Nuclear Test Simulation Field Programs experiment design engineering
layout performance program documents
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates
DESC: KAUAI HAWAII ROCKET SJI-151 ROCKET SJI-152 ROCKET SJI-192 ROCKET
SJI-169 ROCKET SJI-173 ROCKET SJI-292 ROCKET SJI-193 HALEAKALA MAUI
HAWAII JOHNSTON I FRENCH FRIGATE SHOALS BARKING SANDS KAUAI HAWAII
BARBERS POINT OAHU JOHNSTON I TUTUILA SAMOA CHRISTMAS I ;
EXPERIMENTAL
DESC: Nuclear Weapon Environment Visible Output source strength total
intensity
DESC: test instruments nuclear radiation gamma
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
DESC: Nuclear weapon test yield

CORP: GENERAL ELECTRIC CO/TEMPO (SANTA BARBARA-CA)
DATE: 6506
DESC: CODE
DESC: Radiation Transport neutron
DESC: Radiation Transport gamma
REPN: 65 TMP 42 ; DASA 1311 6
SUJO: 9-620-000 ; 9-650-000
TITL: USEFUL HIGH-ALTITUDE COMPUTER PROGRAMS, VOLUME 6, RADIATION
TRANSPORT PROGRAMS(U), 76 P (U)
TREE: 960 ; 970

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DASA 1311 6

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copy: 1 id: 74179-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 1419 1
ADNO: 622371
AUTH: YOUNG R.A.
CLSS: U
CONN: DA 49 146 XZ 112
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)
DATE: 6501
DESC: test instruments EM propagation atmospheric chemistry direct probes
DESC: Simulation Facilities Techniques EM propagation atmospheric
chemistry high-altitude phenomenolgy
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation proton alpha heavy particle
REPN: PAU 3895 ; DASA 1419 1
SUJO: 4-220-000 ; 4-327-000 ; 4-343-000
TITL: MEASUREMENT OF NITRIC OXIDE IN THE EARTHS ATMOSPHERE, INTERIM REPORT
(U), 29 P(U)

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DASA 1419 1

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copy: 1 id: 74292-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1420(1)
ADNO: 472207
AUTH: JONES D.C.
CLSS: U
CONN: DA 49 146 XZ 406
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OHIO)
DATE: 6502
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches
DESC: Nuclear Weapon Effects electronic pieceparts solar cells

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
DESC: Nuclear Weapon Effects electronic subsystems
DESC: TREE ; TABULAR THEORY HANDBOOK BIBLIOGRAPHY
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network
DESC: Nuclear Weapon Effects electrical mechanical cables wires
REPN: DASA 1420
SUJO: 3-210-000 ; 3-219-000 ; 3-221-000 ; 3-222-000 ; 3-223-000 ;
3-229-000 ; 3-231-000
TITL: TREE (TRANSIENT RADIATION EFFECTS ON ELECTRONICS) HANDBOOK (U), 323
P (U)

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DASA 1420(1)

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copy: 1 id: 74293-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 1420(2)
ADNO: 366383L
AUTH: JONES D.C.
CLSS: SRD-1
CONN: DA 49 146 XZ 406
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OHIO)
DATE: 6502
DESC: Nuclear Weapon Environment X-ray Output energy spectrum
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity
DESC: Nuclear Weapon Effects missile systems L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: Nuclear Weapon Effects electronic pieceparts L1
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: TREE X RAY ; TABULAR SURVEY
DESC: Nuclear Weapon Effects electronic subsystems
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network
DESC: Nuclear Weapon Environment X-ray Output rate
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity
REPN: DASA 1420 SUP1

DESC: Nuclear Weapon Effects materials wood paper cellulose films
EFFT: THERMAL
REPN: USNRDL TR 884 ; DASA 1639
SUJO: 3-246-000 ; 4-280-000 ; 9-610-000
TITL: STEADY-STATE METHOD FOR STUDYING THE KINETICS OF THERMAL DEGRADATION
IN SOLID MATERIALS APPLICATION TO ALPHA-CELLULOSE (U), 32 P (U)

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DASA 1639

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copy: 1 id: 74574-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1640
ADNO: 366407L
AUTH: NORMENT H.G. ; ING W.Y.G. ; SCHWENKE T.W.
CLSS: SFRD
CCDE: T/O MODIFIED FORD MODEL
CONN: DA 49 146 XZ 279
CORP: TECHNICAL OPERATIONS INC (BURLINGTON-MA)
DATE: 6504
DESC: Nuclear Weapon Phenomenology cloud shape size
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Environment fallout transport
DESC: test instruments nuclear radiation fallout debris sampling
collectors
DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity
DESC: SURVEY CODE C)
REPN: DASA 1640 ; TO B 65 38
TSHO: SURFACE ; LOW-ALT
SUJO: 2-223-200 ; 2-224-140 ; 2-224-200 ; 4-345-000 ; 4-821-000
TEMP: 47859
TITL: STUDY OF INSTRUMENTATION FOR THE MEASUREMENT OF EARLY NUCLEAR CLOUD
PROPERTIES AND THE ATMOSPHERIC TRANSPORT OF CLOSE-IN FALLOUT, FINAL
REPORT (U), 207 P (SFRD)

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DASA 1640

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copy: 1 id: 74575-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1644
ADNO: 362971L
AUTH: SHREVE J.D. ; THOMAS D.M.C.
CLSS: C-3
CORP: SANDIA CORPORATION (ALBUQUERQUE-NEW MEXICO) ; ATOMIC WEAPONS
RESEARCH ESTABLISHMENT (ALDERMASTON-ENGLAND-U.K.)
DATE: 6506

DESC: EXPERIMENTAL SUMMARY
DESC: Nuclear weapon safety radiological
LA: UK
REPN: DASA 1644
SUJO: 4-838-100
TEMP: B8552
TITL: SCIENTIFIC DIRECTOR S SUMMARY REPORT, OPERATION ROLLER COASTER (U),
67 P (C)
TNFF: 8859

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DASA 1644

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copy: 1 id: 74580-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1668
AUTH: GRIESINGER D.W. ; HEBNER C. ; WILSON J.R.
CLSS: SRD
CONN: DA 49 146 XZ 335
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 6506
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR
DESC: Nuclear Test Simulation Field Programs experiment design aerospace
systems
DESC: test instruments visible
DESC: test instruments IR
DESC: SURVEY
REPN: RM 65 TMP 44 ; DASA 1668
TSHO: HI-ALT
SUJO: 4-382-000 ; 4-383-000 ; 4-820-600 ; 4-829-100
TEMP: 47138
TITL: BLUE ROCK THERMAL INSTRUMENTATION CAPABILITIES (U), 73 P (SRD)

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DASA 1668

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copy: 1 id: 74608-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1672
ADNO: 372945
AUTH: BOCK J. ; BAICY E.O.
CLSS: C
CORP: ARMY/BALLISTIC RESEARCH LABORATORIES (ABERDEEN-MARYLAND)
DATE: 6509
DESC: SATELLITE (EXPLORER 4) ; EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
REPN: BRL R 1309 ; DASA 1672

SHOT: ARGUS-1 ; ARGUS-2
TSHO: HI-ALT
SUJO: 2-217-000
TEMP: 49735 CY 1
TITL: ARGUS DIRECTIONAL DEPENDENCY OF TRAPPED RADIATION AFTER THE FIRST
NUCLEAR HIGHALTITUDE DETONATION (ARGUS) AS MEASURED BY EXPLORER IV
(1958 EPSILON) (U), 147 P (S)

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DASA 1672

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copy: 1 id: 74614-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1688
ADNO: 627077
AUTH: BROWN J.E. ; WEBB R.I.A.
CLSS: U
CONN: DA 49 146 XZ 292 (DASA)
CORP: ARMY/NUCLEAR DEFENSE LAB (EDGEWOOD ARSENAL-MD), E G + G INC (SANTA
BARBARA-CA)

DATE: 6512
DESC: test instruments nuclear radiation gamma
REPN: DASA 1688 ; NDL TR 71
SUJO: 4-341-000
TITL: DASA FALLOUT AND TRANSIT DOSE RATE MEASUREMENT SYSTEM (U), 114 P (U)

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DASA 1688

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copy: 1 id: 74634-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1688S
ADNO: 636206
AUTH: PAYNTER D.A.
CLSS: U
CONN: DA 49 146 XZ 292 (DASA)
CORP: E G AND G INCORPORATED (SANTA BARBARA, CALIFORNIA) ; ARMY/NUCLEAR
DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND)

DATE: 6608
DESC: test instruments nuclear radiation gamma
DESC: test instruments nuclear radiation dosimeters radiacs
REPN: DASA 1688 (SUPPL) ; NDL TR 71 (SUPPL)
SUJO: 4-341-000 ; 4-346-000
TITL: FIELD DETECTOR STATION FOR THE DASA FALLOUT AND TRANSIT DOSE RATE
MEASUREMENT SYSTEM (U), 44 P (U)

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DASA 1688S

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copy: 1 id: 74635-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 1696
ADNO: 370725
AUTH: JOHNSON G.L.
CLSS: SFRD 1
CONN: DA 49 146 XZ 287
CORP: STANFORD RESEARCH INSTUTUTE (MENLO PARK-CA)
DATE: 6508
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1 F-REGION SYNCHROTRON RADIATION
CONJUGATEAREAS ABSORPTION
DESC: DATA
REPN: DASA 1696
PROJ: 6.8
SHOT: STARFISH ; CHECKMATE ; KINGFISH ; TEAK ; ORANGE
TSHO: HIGH ALTITUDE
SUJO: 2-211-000
TEMP: 49345
TITL: ANALYSIS OF FISH BOWL RIOMETER DATA, FINAL REPORT (U), 208 P, (SFRD)

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DASA 1696

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copy: 1 id: 74642-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1698
ADNO: 473604
AUTH: BRUST-CARMONA H. ; COMAR C.L. ; DARBY C.H. JR. ; GASTEIGER E.L. ;
KASPRZAK H. ; SPIES G.D. ; TAPPER D.N. ; TAPPER N.H. ; VAN SCOY R. ;
WASSERMAN R.H.
CLSS: U
CONN: DA 49 146 XZ 058 (DASA)
CORP: CORNELL UNIVERSITY (ITHACA-NEW YORK)
DATE: 6508
DESC: Simulation Facilities Techniques biomedical nuclear radiation
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: test instruments nuclear radiation dosimeters radiacs
REPN: DASA 1698
SUJO: 3-312-000 ; 4-251-000 ; 4-346-000
TITL: BIOMEDICAL DOSIMETRY AND RESPONSE TO INTERNAL AND EXTERNAL
RADIATION, FINAL SUMMARY REPORT, OCTOBER 1, 1960 SEPTEMBER, 1964
(U), 156 P (U)

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DASA 1698

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copy: 1 id: 74644-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 1702
ADNO: 479375
AUTH: WHITTEN R.C. JR. ; EDMONDS R.S. ; POPPOFF I.G.
CLSS: U
CONN: DA 36 039 SC 87197
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CALIFORNIA)
DATE: 6508
DESC: Ionosphere
DESC: THEORY EXPERIMENTAL SURVEY
DESC: Solar Phenomena
DESC: Composition Chemistry Atmosphere Reaction Rates
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation
REPN: DASA 1702
SUJO: 5-400-000 ; 5-700-000 ; 5-800-000 ; 5-900-000
TITL: HF COMMUNICATION EFFECTS PHYSICS AND CHEMISTRY OF THE IONOSPHERE
(U), 186 P,(U)

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DASA 1702

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copy: 1 id: 74648-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 1703
ADNO: 627567
AUTH: TOCHILIN E. ; GOLDSTEIN N.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6512
DESC: test instruments nuclear radiation gamma
DESC: Simulation Facilities Techniques TREE
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation dosimeters radiacs
REPN: USNRDL TR 939 ; DASA 1703
SUJO: 4-272-000 ; 4-341-000 ; 4-346-000
TITL: DOSE RATE AND SPECTRAL MEASUREMENTS FROM PULSED X-RAY GENERATORS
(U), 23 P (U)
TREE: 653

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DASA 1703

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copy: 1 id: 74649-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1704
ADNO: 630866
AUTH: HAND J.E. ; LAMONDS H.A.
CLSS: U
CONN: DA 49 146 XZ 250 (DASA)
CORP: E G AND G INCORPORATED (SANTA BARBARA-CALIFORNIA)
DATE: 6602
DESC: test instruments nuclear radiation gamma
REPN: DASA 1704 ; S 283 R
SUJO: 4-341-000
TITL: DEVELOPMENT OF AIRBORNE SURVEILLANCE INSTRUMENTATION (U), 170 P (U)
TREE: 651

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DASA 1704

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copy: 1 id: 74650-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 1706
ADNO: 803555L
AUTH: HAMMOND R.R.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CALIFORNIA)
DATE: 6508
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Water Shock bubbles
DESC: Nuclear Weapon Phenomenology plumes spray domes
DESC: Simulation Facilities Techniques blast shock water shock L1
REPN: USNRDL TR 968 ; DASA 1706
TSHO: UW
SUJO: 2-224-130 ; 2-636-000 ; 4-213-000
TITL: HYDRA PROGRAM. HYDRA 11B SERIES AN INVESTIGATION OF WATER FLOW ADJACENT TO SHALLOW UNDERWATER EXPLOSION BUBBLES USING FLOURESCENT DYES AND PHOTOGRAPHIC TECHNIQUES (U), 71 P (U)

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DASA 1706

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1707
ABS: The objectives of this project were to determine the amount and nature of the plutonium and uranium contamination from two low-yield nuclear detonations (Little Fellers I and II). They were detonated

at the Nevada Test Site during July 1962. The project was initiated approximately 3 months after detonation of the devices. Alpha surveys and air samplings of the two contaminated areas were conducted in the field. Contaminated soil, core, debris, fallout particles, and animal samples were collected and analyzed for plutonium and uranium content. In addition, surface SWIPES were taken of several contaminated vehicles and structures.

ABS: Data based on the alpha surveys and soil-sample analyses resulted in the calculation of a correlation factor (R) of 0.09 microgram of Pu 239 per square meter equal to one count per minute on a PAC-3G alpha-survey instrument with a 95-percent confidence interval of 0.06 R median 0.13.

ADNO: 372089L
AUTH: SMITH R.J. ; BENCK R.F. ; LADA H.F.
CLSS: SRD-1
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND)
DATE: 6603
DESC: Nuclear Weapon Environment fallout intensity contours patterns
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Environment fallout redistribution
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout Particles
REPN: DASA 1707 ; NDL TR 60 ; NDL 65 SRD 264
SHOT: LITTLE FELLER-I ; LITTLE FELLER-II
TSHO: SURFACE
SUJO: 2-222-000 ; 2-223-200 ; 2-225-100 ; 2-225-500 ; 3-312-220
TEMP: 51361
TITL: RESIDUAL ALPHA CONTAMINATION FROM VERY-LOW-YIELD DETONATIONS (U),
149 P (S)
TNFF: 4860
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DASA 1707
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copy: 1 id: 74653-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1709
ADNO: 476095
AUTH: PARKS J.D.
CLSS: U
CONN: DA 49 146 XZ 238 (MOD NO 1) (DASA)
CORP: BOEING AIRCRAFT COMPANY (SEATTLE-WASHINGTON)
DATE: 6510
DESC: test instruments hardened instruments
REPN: DASA 1709
SUJO: 4-360-000
TITL: FIELD PACKAGING OF TRANSIENT RADIATION EFFECTS DETECTOR (U), 42 P
(U)

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DASA 1709

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1713

ADNO: 477489

AUTH: CLADIS J.B. ; DAVIDSON G.T. ; FRANCIS W.E. ; NEWKIRK L.L. ; TEPLEY
L. ; R. ; WALT M. ; WENTWORTH R.C.

CLSS: U

CONN: DA 49 146 XZ 338

CORP: LOCKHEED MISSILES + SPACE CO (SUNNYVALE-CA)

DATE: 6512

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

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

DESC: EXPERIMENTAL THEORY

DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping

REPN: M 57 65 1 ; DASA 1713

SHOT: STARFISH

SUJO: 2-212-000 ; 2-217-000 ; 5-800-000

TITL: SEARCH FOR POSSIBLE LOSS PROCESSES FOR GEOMAGNETICALLY TRAPPED
PARTICLES, FINALREPORT (U), 128 P (U)

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DASA 1713

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copy: 1 id: 74659-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1726

ADNO: 370910L

AUTH: KAULUM K.W.

CLSS: CFRD-1

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

DATE: 6509

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Weapon Phenomenology cloud columns stems

DESC: Nuclear Weapon Environment fallout transfer

DESC: Nuclear Weapon Environment Water Shock bubbles

DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation

DESC: test instruments nuclear radiation fallout debris sampling
collectors

DESC: EXPERIMENTAL

REPN: DASA 1726 ; USNRDL TR 954

TSHO: UW

SUJO: 2-224-110 ; 2-224-300 ; 2-636-000 ; 4-242-000 ; 4-341-000 ;
4-345-000

TEMP: B8512

TITL: HYDRA PROGRAM. HYDRA IIB SERIES TRANSFER AND DISTRIBUTION OF TRACED
EXPLOSION PRODUCTS TO THE COLUMNS OF SHALLOW UNDERWATER EXPLOSIONS
(U), 100 P (CFRD)

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DASA 1726

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copy: 1 id: 74676-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 1735-3

AUTH: QUINN R.G. ; CHANG C.C.

CLSS: U

CONN: DA 49 146 XZ 212 (DASA)

CORP: CATHOLIC UNIVERSITY OF AMERICA (WASHINGTON-D.C.)

DATE: 6511

DESC: Electromagnetic Theory Applications

DESC: SUMMARY

DESC: Simulation Facilities Techniques EM propagation atmospheric

chemistry high-altitude phenomenolgy

REPN: DASA 1735 PT 3

SUJO: 4-220-000 ; 9-300-000

TITL: MICROWAVE SCATTERING AND NOISE RADIATION MEASUREMENTS OF A STABLE
PLASMA BELT IN A DIPOLAR MAGNETIC FIELD (U) 17 P (U)

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DASA 1735-3

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copy: 1 id: 74689-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1735-4

AUTH: WANG C.P. ; CHANG C.C. ; FAN C.Y.

CLSS: U

CONN: DA 49 146 XZ 212 (DASA)

CORP: UNIVERSITY OF CHICAGO (CHICAGO-ILLINOIS) ; CATHOLIC UNIVERSITY OF
AMERICA (WASHINGTON-D.C.)

DATE: 6506

DESC: test instruments EM propagation atmospheric chemistry direct probes

DESC: THEORY SUMMARY

DESC: Simulation Facilities Techniques EM propagation atmospheric

chemistry high-altitude phenomenolgy

DESC: test instruments nuclear radiation proton alpha heavy particle

REPN: DASA 1735 PT 4

SUJO: 4-220-000 ; 4-327-000 ; 4-343-000

TITL: PRELIMINARY STUDY ON THE DETERMINATION OF CHARGE, MASS AND ENERGY OF
IONS IN KEV AND SUB-KEV REGION --INCLUDING CONSTRUCTION OF AN ION

ACCELERATOR (U), 14 P(U)

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DASA 1735-4

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copy: 1 id: 74690-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1748

AUTH: YEFSKY S.A.

CLSS: U

CORP: ILLINOIS INSTITUTE OF TECHNOLOGY/RESEARCH INSTITUTE (CHICAGO-IL)

DATE: 6600

DESC: test instruments nuclear radiation gamma

DESC: test instruments nuclear radiation neutron

REPN: DASA 1748

SUJO: 4-341-000 ; 4-342-000

SYMJ: PROCEEDINGS OF THE NATIONAL ELECTRONICS CONFERENCE, VOLUME XXII,
1966

TITL: IRIG COMPATIBLE SPECTROMETER FOR AIRBORNE NUCLEAR PULSE HEIGHT
ANALYSIS (U), 6P (U)

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DASA 1748

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copy: 1 id: 74701-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1750

AUTH: CAMPANELLA A.J. ; JAGGERS H.T. ; ERKES A.

CLSS: U

CONN: DA 49 146 XZ 358 (DASA)

CORP: INDUSTRIAL NUCLEONICS CORPORATION (COLUMBUS-OHIO)

DATE: 6511

DESC: test instruments nuclear radiation gamma

DESC: test instruments nuclear radiation beta electron beams

DESC: test instruments thermal temperature

REPN: DASA 1750

SUJO: 4-341-000 ; 4-344-000 ; 4-384-000

TITL: ROCKET-BORNE RADIATION DETECTOR (U), 120 P (U)

TREE: 654

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DASA 1750

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copy: 1 id: 74703-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1758
ADNO: 482006
AUTH: DONNERT H.J.
CLSS: O
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND)
DATE: 6603
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport
REPN: NDL SP 12 ; DASA 1758
SUJO: 4-140-000
TITL: DESCRIPTION OF PROGRAM FOR THEORETICAL SOLUTION OF THE INITIAL
NUCLEAR-RADIATION TRANSPORT PROBLEM (U), 30 P (O)

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DASA 1758

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1780
ADNO: 375479
AUTH: RUDKIN R.L.
CLSS: SRD-1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN
FRANCISCO-CALIFORNIA)
DATE: 6608
DESC: test instruments IR
DESC: test instruments thermal temperature
DESC: test instruments visible
REPN: USNRDL TR 1026 ; DASA 1780
SUJO: 4-382-000 ; 4-383-000 ; 4-384-000
TEMP: 51168
TITL: INSTRUMENTATION FOR SPECTRAL IRRADIANCE MEASUREMENTS, OPERATION
BLUEROCK (U) 40 P (SRD)

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DASA 1780

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1800 3
ADNO: 819770L
AUTH: GEORGE J.P. ; LAVAGNINO A.
CLSS: U
CCDE: DELFIC
CONN: DA 49 146 XA 532
CORP: TECHNICAL OPERATIONS INCORPORATED (BURLINGTON-MASSACHUSETTS)
DATE: 6606
DESC: Radiation Transport neutron

DESC: Nuclear Weapon Environment Prompt Neutrons
DESC: CODE THEORY
REPN: DASA 1800 3 ; TO B 66 45
TSHO: SURFACE
SUJO: 1-100-000 ; 9-650-000
TITL: DEPARTMENT OF DEFENSE LAND FALLOUT PREDICTION SYSTEM, VOLUME III,
CLOUD RISE (U), 100 P (U)
TREE: 970

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DASA 1800 3

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1808
ADNO: 809752
AUTH: BOCK J.K.
CLSS: U
CORP: ARMY/BALLISTIC RESEARCH LABORATORIES (ABERDEEN-MARYLAND)
DATE: 6610
DESC: test instruments nuclear radiation beta electron beams
DESC: test instruments electronic vulnerability EMP
DESC: THEORY
DESC: test instruments nuclear radiation proton alpha heavy particle
REPN: DASA 1808 ; BRL R 1341
SUJO: 4-343-000 ; 4-344-000 ; 4-371-000
TITL: DESIGN OF SATELLITE INSTRUMENTATION FOR THE MEASUREMENT OF TRAPPED
RADIATION (U), 32 P (U)
TREE: 654

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DASA 1808

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1813
ADNO: 489428L
AUTH: MC DONALD R.I. ; KIELPINSKI P.E. ; ALLEN R.G. JR.
CLSS: U
CCDE: ZZ
CONN: DA 49 146 XZ 459
CORP: TECHNOLOGY INCORPORATED (SAN ANTONIO-TEXAS)
DATE: 6608
DESC: Nuclear Weapon Effects on animals ionizing radiation
DESC: CODE EXPERIMENTAL THEORY
REPN: DASA 1813
SUJO: 3-312-000
TITL: RADIATION DAMAGE DETERMINATION BY ELECTRICAL IMPEDANCE MEASUREMENT,

FINAL REPORT (U), 49 P (U)

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DASA 1813

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1815

ADNO: 376206L

AUTH: WHALEN J.A.

CLSS: SRD-1

CONN: DA 49 146 XZ 196 (DASA)

CORP: MT. AUBURN RESEARCH ASSOCIATES INCORPORATED

(CAMBRIDGE-MASSACHUSETTS)

DATE: 6607

DESC: ANTARCTICA CANADA NEW ZEALAND WAKE I MIDWAY I TUTUILA SAMOA FRENCH
FRIGATE SHOALS S5 SHIP ; EXPERIMENTAL

DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence

DESC: nuclear test detection atmospheric fluorescence detection

REPN: DASA 1815 ; JAW R SFRD 53

SHOT: TEAK ; ORANGE ; STARFISH ; KINGFISH ; RUSSIAN (62-10-22) ; RUSSIAN
(62-10-28) ; RUSSIAN (62-11-01) ; RUSSIAN (61-10-23) ; RUSSIAN
(61-10-30) ; RUSSIAN (62-08-05)

TSHO: HI-ALT

SUJO: 2-214-000 ; 4-918-000

TEMP: 51447 CY 1

TITL: LITHIUM RESONANCE RADIATION PULSES AND THEIR QUANTITATIVE DEPENDENCE
ON HIGH ALTITUDE NUCLEAR TESTS (U), 52 P (SRD)

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DASA 1815

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1820 1

ADNO: 647164

AUTH: GEORGE J.P. ; LAVAGNINO A.

CLSS: U

CONN: DA 49 146 XZ 532

CORP: BRADDOCK, DUNN AND MCDONALD, INCORPORATED (EL PASO-TEXAS)

DATE: 6606

DESC: TABULAR

DESC: Radiation Transport neutron

DESC: Nuclear Weapon Environment Prompt Neutrons

REPN: DASA 1820 1

TSHO: HI-ALT

SUJO: 1-100-000 ; 9-650-000

TITL: TIME DEPENDENT NEUTRON TRANSPORT FROM A POINT ISOTROPIC SOURCE AT AN
ALTITUDE OF (24.384KM) 80,000 FT. (U), 279 P (U)

TREE: 970

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DASA 1820 1

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1820 2

ADNO: 646458

AUTH: GEORGE J.P. ; LAVAGNINO A.

CLSS: U

CONN: DA 49 146 XZ 532

CORP: BRADDOCK DUNN AND MC DONALD INCORPORATED (EL PASO-TEXAS)

DATE: 6610

DESC: Radiation Transport neutron

DESC: TABULAR

DESC: Nuclear Weapon Environment Prompt Neutrons

REPN: DASA 1820 2

TSHO: LOW-ALT

SUJO: 1-100-000 ; 9-650-000

TITL: TIME DEPENDENT NEUTRON TRANSPORT FROM A POINT ISOTROPIC SOURCE AT AN
ALTITUDE OF (9.144 KM) 30,000 FEET (U), 253 P (U)

TREE: 970

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DASA 1820 2

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1844

ADNO: 646667

AUTH: SAENGER E.L. ; FRIEDMAN B.I. ; KERIAKES J.G. ; PERRY H.

CLSS: U

CONN: DA 49 146 XZ 315

CORP: UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE (CINCINNATI-OH)

DATE: 6609

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt

SIMULATION

DESC: EXPERIMENTAL

REPN: DASA 1844

SUJO: 3-312-100

TITL: METABOLIC CHANGES IN HUMANS FOLLOWING TOTAL-BODY IRRADIATION (U),
SUMMARY REPORT, 158 P (U)

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DASA 1844

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created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1889
ADNO: 651489
AUTH: WEBER A.H. ; BRISKEN A.F. ; COUGHLIN M.E. ; FENNELL J.F. ; GEORGE
J.A. ; KOTTMAYER W.K. ; MANSON D.J. ; OCKERSZ J.R. ; PAIKEDAY J.M.
CLSS: U
CONN: DA 49 146 XZ 494
CORP: ST. LOUIS UNIVERSITY (ST. LOUIS-MISSOURI)
DATE: 6611
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum
REPN: DASA 1889
SHOT: ARGUS-1 ; ARGUS-2
TSHO: HI-ALT
SUJO: 2-212-000 ; 2-217-000
TITL: FURTHER DETAILED ANALYSIS OF TELEMETRY RECORDS OBTAINED BY EXPLORER
IV SATELLITE CONCERNING GEOMAGNETICALLY TRAPPED RADIATION, FINAL
REPORT (U), 113 P (U)

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DASA 1889

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1892 1

ABS: This Volume (chapter 5 of handbook) describes effective methods for
designing air filled holes in protective structures (access ways,
ventilation ducts, other utility pipes, distributed voids resulting
from the use of non-homogeneous material in the structure, etc.) to
reduce the amount of radiation that enters the structure.

ADNO: 804869L
AUTH: SELPH W.E. ; CLAIBORNE H.C.
CLSS: U
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TENNESSEE)
DATE: 6612
DESC: Cross Sections neutron
DESC: Cross Sections gamma
DESC: THEORY
REPN: DASA 1892 1
SUJO: 9-820-000 ; 9-830-000
TITL: WEAPONS RADIATION SHIELDING HANDBOOK, CHAPTER 5, METHODS FOR
CALCULATING EFFECTS OF DUCTS, ACCESS WAYS, AND HOLES IN SHIELDS (U),
44 P (U)
TREE: 411 ; 412

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DASA 1892 1

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1908

ADNO: 817716L

AUTH: POST R.G.

CLSS: U

CONN: DA 49 146 XZ 251

CORP: UNIVERSITY OF ARIZONA (TUCSON-ARIZONA)

DATE: 6600

DESC: SURVEY

DESC: test instruments nuclear radiation dosimeters radiacs

REPN: DASA 1908

SUJO: 4-346-000

TITL: ENGINEERING DESIGN AND EVALUATION OF SYSTEM TECHNIQUES FOR
MONITORING OF RADIATION FIELDS IN UNATTENDED LOCATIONS, FINAL REPORT
(U), 132 P (U)

TREE: 655

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DASA 1908

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 1251 3

ADNO: 381963L

AUTH: KAWAHARA F.K. ; OCONNOR J.D. ; LEE H. ; CONNORS M.A.

CLSS: SRD

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

DATE: 6611

DESC: SUMMARY

DESC: Nuclear Weapon Environment Fallout Formation mechanics

DESC: Nuclear Weapon Environment Fallout Particles

REPN: DASA 1251 V.3 ; USNRDL 497

SHOT: WIGWAM ; ABLE (R) ; APPLE-1 ; APPLE-2 ; BAKER(B-J) ; BAKER (RANGER)
; BAKER 2 (R) ; BEE ; BRAVO ; CHARLIE(B-J) ; DIABLO ; DOG(B-J) ; DOG
(GH) ; DOPPLER ; EASY(B-J) ; EASY (GREENHOUSE) ; EASY (RANGER) ; ESS
; FIG ; FIZEAU ; FLATHEAD ; FOX (RANGER) ; FRANKLIN PRIME ; GEORGE
(GREENHOUSE) ; HOOD ; ENCORE ; ITEM ; JOHN ; KING ; KOA ; KOON ;
LACROSSE ; LASSEN ; MET ; MIKE ; MOTH ; NANCY ; NAVAJO ; NECTAR ;
OWENS ; PRISCILLA ; RAY ; ROMEO ; SHASTA ; SIMON ; SMOKY ; STOKES ;
SUGAR ; TESLA ; TEWA ; CHARLIE(T-S) ; DOG(T-S) ; EASY(T-S) ;
FOX(T-S) ; GEORGE(T-S) ; HOW ; TURK ; UMBRELLA ; UNCLE ; UNION ;
WIGWAM ; WILSON ; YANKEE ; YOKE ; ZEBRA ; ZUNI

TSHO: UW ; WATER-SURFACE ; SURFACE ; UG-VENTED ; LOW-ALT
SUJO: 2-221-000 ; 2-222-000
TEMP: 55731
TITL: LOCAL FALLOUT FROM NUCLEAR TEST DETONATIONS; VOLUME 3, ANNOTATED
COMPENDIUM OF DATA ON PHYSICAL AND CHEMICAL PROPERTIES OF FALLOUT
(U), 770 P (SRD)

TNFF: 4860

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DNA 1251 3

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 1464 3

ADNO: 371375L

AUTH: RUGGE H. ; TEATUM E.

CLSS: SRD

CORP: PHYSICS INTERNATIONAL (SAN LEANDRO-CALIFORNIA)

DATE: 6601

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

DESC: Nuclear Weapon Environment X-ray Output rate

DESC: SOURCEBOOK EXPERIMENTAL THEORY

DESC: Simulation Facilities Techniques TREE

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits

DESC: Nuclear Weapon Effects reentry systems RV

DESC: Nuclear Weapon Effects ordnance bombs mines warheads

DESC: Nuclear Weapon Effects materials not systems associated

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum

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

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width

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

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

DESC: Nuclear Weapon Environment Initial Gamma energy spectrum

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

REPN: DASA 1464 3 (1966)

SOCE: DEV-5 ; DEV-1 ; DEV-1 ; DEV-12

SUJO: 1-120-000 ; 1-610-000 ; 1-640-000 ; 1-720-000 ; 1-740-000 ;

2-223-200 ; 3-113-000 ; 3-161-000 ; 3-162-000 ; 3-219-000 ;

3-221-000 ; 3-222-000 ; 3-229-000 ; 3-240-000 ; 4-170-000 ;

4-241-000 ; 4-272-000

TEMP: 51259 VOL 3

TITL: NUCLEAR WEAPON VULNERABILITY SOURCE BOOK, VOLUME III (U), 164 P
(SRD)

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DNA 1464 3

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 1-1-12

ABS: In high time-resolution radiation measurements, in which there is a large amplitude narrow radiation pulse followed by a lower, broader signal, one may be interested in the time history of this lower level radiation signal as well as that of the initial radiation pulse. If a linear radiation detector is being used, the signal from the initial pulse may either blur over onto the later signal because of the imperfect time resolution of the system or saturate some component of the system which does not recover until some time after the radiation reaches the level of interest. One way to overcome this problem is to design a detector which does not convert this initial radiation pulse into an analog signal. The device should still be linear, or better, linear up to a certain radiation intensity at which point the output signal is limited.

ABS: However, when the radiation decreases to the level of interest, the detector must quickly recover and follow the radiation intensity for as long as it stays below this saturation level. Used properly, a space charge limited (abbreviated SCL) radiation detector should meet these requirements. The purpose of this note is to discuss a possible design of such a detector. All doses in this note are to be considered as "air equivalent" doses. The sensors may be assumed calibrated to provide this directly.

AUTH: Baum C.E.

CLSS: U

CORP: Air Force Weapons Lab. (Kirtland AFB, NM)

DATE: 6501

DESC: test instruments electronic vulnerability EMP

DESC: THEORY

EMPF: 811

SUJO: 4-371-000

SYMJ: Electromagnetic Pulse Sensor and Simulation Notes, Vol. 1, Notes 1 through 26

TITL: Space Charge Limited Radiation Detector (U), 13 P., (U)

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EMP 1-1-12

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created: 1/28/1993 type: REPORT permanent

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INUM: EMP 1-1-13

ABS: The problem of measuring electric fields in air, in the presence of rapidly varying radiation and conductivity, leads one to use a

sensor with a load impedance much larger than the sensor impedance so that the electric field or potential is being sampled but not loaded. However, measurement of electric field below the ground plane where the characteristics of medium are vastly different changes the requirements for an electric field sensor. If such a medium, e.g., soil, salt water, etc., can be considered to have a conductivity (and dielectric constant) which is not significantly changed by the ionizing radiation or the electric field present, then the restriction of an infinite load impedance can be removed.

ABS: The general technique which this note will discuss involves removing the conductance from a certain portion of this medium and transferring it to the load impedance, eliminating the need for isolating electronics. In effect, this electric field sensor will be matched to the conducting medium in which it is located, the sensor having the same bulk parameters as the equivalent volume of the medium. Finally, this sensor will be generalized to the extent that the sensor parameters are different from those of the medium but the frequency response is still flat.

AUTH: Baum C.E.
CLSS: U
CORP: Air Force Weapons Lab. (Kirtland AFB, NM)
DATE: 6501
DESC: test instruments electronic vulnerability EMP
DESC: THEORY
EMPF: 811 ; 850
SUJO: 4-371-000
SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 1, Notes 1 through 26 (U)
TITL: Electric Field and Current Density Measurements in Media of Constant Conductivity (U), 13 P (U)

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EMP 1-1-13

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INUM: EMP 1-1-15

ABS: In this note the nuclear radiation and air conductivity constraints on the design of an electric dipole will be discussed. (The electric field probe utilizing a single element with a ground plane and often called a "monopole" is, strictly speaking, also a dipole.) The same effects must also be considered (although in different forms) in the design of the more "exotic" (and more complex) electric field probes, such as those using the Stark or electro-optic effects. However, all references in this note will be to the electric field dipole.

AUTH: Baum C.E.
CLSS: U
CORP: Air Force Weapons Lab. (Kirtland AFB, NM)
DATE: 6502
DESC: test instruments electronic vulnerability EMP

DESC: THEORY
EMPF: 811
SUJO: 4-371-000
SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 1, Notes 1 through 26 (U)
TITL: Radiation and Conductivity Constraints on the Design of a Dipole Electric Field Sensor (U), 21 P (U)

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EMP 1-1-15

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INUM: EMP 1-2-29

ABS: The air conductivity and the nuclear radiation are significant factors to be considered in the design of B loops for close-in EMP measurements. The maximum air conductivity and the desired upper frequency response limit the allowable size of the loop. The nuclear radiation introduces noise signals which can be significant at high radiation intensities.

AUTH: Baum C.E.

CLSS: U

CORP: Air Force Weapons Lab. (Kirtland AFB, NM)

DATE: 6610

DESC: test instruments electronic vulnerability EMP

DESC: THEORY

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors

EMPF: 821

SUJO: 3-224-000 ; 4-371-000

SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 2, Notes 27 through 43 (U), 380 P (U)

TITL: Influence of Radiation and Conductivity on B Loop Design (U), 13 P (U)

TREE: 365

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EMP 1-2-29

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created: 12/27/1991 type: REPORT permanent
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INUM: EMP 2-1-05

ABS: This note calculates the electric and magnetic fields produced in evacuated cavities by the Compton currents ejected from the cavity walls by the gamma radiation. The energies associated with these fields are also calculated. Three simple geometries are considered: parallel plate, cylindrical, and spherical.

AUTH: Baum C.E.

CLSS: U
CORP: Air Force Weapons Lab. (Kirtland AFB, NM)
DATE: 6501
DESC: THEORY
DESC: Nuclear Weapon Effects aerospace systems
DESC: Nuclear Weapon Effects structures aboveground models spheres domes
arches
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings
EMPF: 391
SUJO: 2-510-000 ; 3-110-000 ; 3-259-100 ; 3-259-400
SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 1, Notes 1 through 21
(U)
TITL: Unsaturated Compton Current and Space-Charge Fields in Evacuated
Cavities (U),26 P (U)

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EMP 2-1-05

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 2-1-09

ABS: This note calculates the potentials produced between objects in
evacuated cavities and the cavity walls by the Compton current and
space charge associated with gamma radiation. Simplified models of
the cavity geometry, geometry of the internal object, and impedance
connecting the former two are assumed. Three simple geometries are
considered: parallel plate, cylindrical, and spherical.

AUTH: Baum C.E.

CLSS: U

CORP: Air Force Weapons Lab. (Kirtland AFB, NM)

DATE: 6505

DESC: Nuclear Weapon Effects aerospace systems

DESC: Nuclear Weapon Effects electrical mechanical cables wires

DESC: Nuclear Weapon Effects structures aboveground models spheres domes
arches

DESC: THEORY

DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings

EMPF: 391

SUJO: 3-110-000 ; 3-231-000 ; 3-259-100 ; 3-259-400

SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 1, Notes 1 through 21

(U)

TITL: Electrode Potentials from Compton Current and Space Charge in
Evacuated Cavities (U), 17 P (U)

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EMP 2-1-09

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INUM: EMP 2-2-24

ABS: The expressions in the time domain representing the general solution of the wave equation in spherical polar coordinates are summarized. The boundary-value problem where the tangential component of E is given as a function of time on the surface of a sphere is solved for outward-moving waves. The solution of this problem was used to find the radiation field surrounding a conducting sphere irradiated by an intense short pulse of gamma rays. The problem embodies the transient spherical-antenna problem as a special case. Since the solution involves solving ordinary linear differential equations with constant coefficients, it is similar to that of a transient circuit problem and Laplace transforms can be employed in a similar way.

AUTH: Granzow K.D.

CLSS: U

CORP: Dikewood Corp.

DATE: 6612

DESC: THEORY

DESC: Electromagnetic Theory Applications L1

EMPF: 223

SUJO: 9-300-000

SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 2, Notes 22 through 48

(U)

TITL: Transient Spherical Waves (U), 26 P., (U)

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EMP 2-2-24

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 2-2-44

ABS: The high-frequency electromagnetic pulse radiation from nuclear explosions presents a possible detection mechanism for low-altitude or ground bursts as well as for bursts in outer space. This radiation propagates around the earth via ground wave or ionospheric reflection, and it is necessary to determine what effect this propagation will have on the received signals. This note first considers the attenuation of the pulse when it travels via ground wave. Effects of the height of the source are included. Severe selective attenuation does occur, with the higher frequency components suffering most. The ionospheric waves suffer relatively little attenuation, but are strongly dispersed, leading to limitations on the pulse length which can be resolved. The receiver bandwidth should be selected to match the ionospheric dispersion at the receiver frequency.

ABS: From all these considerations, it is clear that propagation effects will very strongly modify the pulse shape and pulse amplitude

relative to free space.

AUTH: Sollfrey W.
CLSS: U
CORP: Rand Corp. (Santa Monica, CA)
DATE: 6511
DESC: nuclear test detection EMP earth current detection
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: THEORY
EMPF: 261
SUJO: 2-510-000 ; 4-914-000
SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 2, Notes 22 through 48
(U)

TITL: Effects of Propagation on the High-Frequency Electromagnetic
Radiation from Low-Altitude Nuclear Explosions (U), 31 P (U)

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EMP 2-2-44

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created: 12/27/1991 type: REPORT permanent
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INUM: EMP 2-2-47

ABS: The dipole radio signal from a low altitude atmospheric nuclear explosion of low yield is computed by numerically integrating Maxwell's equations. The source is described by a simple model. The function describing the time history of the rate of gamma output is taken to be an isosceles triangle with a base equal to a fraction of a microsecond. The asymmetry necessary for radiation comes entirely from the variation of air density with altitude. The dipole fields are shown as functions of position for various times after the explosion. These curves form, in effect, a motion picture of the development of the signal. Glenn Peebles designed the numerical program for solving Maxwell's equations that is essential for this report. It was coded by Don MacNeilage.

ABS: The distant electromagnetic signal from a small atmospheric nuclear explosion is computed numerically on the basis of a simple model. A series of curves are presented which are, in effect, a motion picture of the development of the signal. This computation is a continuation of work reported in Theoretical Notes 36, 38, 41 and 81. The details of the numerical program are described in Theoretical Note 46 by Glenn Peebles.

AUTH: Gilinsky V.
CLSS: U
CORP: Rand Corp. (Santa Monica, CA)
DATE: 6608
DESC: THEORY
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
EMPF: 222
SUJO: 2-510-000
SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 2, Notes 22 through 48
(U)

TITL: Development of a Radio Signal from a Nuclear Explosion in the

Atmosphere (U), 20 P., (U)

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EMP 2-2-47

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 2-3-55

ABS: Previous papers which treat pulse propagation (with special reference to the nuclear pulse) assume the ionosphere to be "normal". Thus, a theoretical model of the ionosphere has been employed which represents undisturbed conditions. This paper extends this propagation analysis to a disturbed condition resulting from the ionizing radiation of nuclear debris spread over a large area. The effect of the debris on the transforms for the propagation medium together with the detailed dispersion of a particular pulse are considered. The lowering of the ionosphere reflection height at low frequencies causes shorter propagation times for the pulses reflected from the ionosphere. This effect causes considerable change in the form or shape of the observed composite pulse at great distance from the source.

AUTH: Johler J.R.

CLSS: U

CORP: Institute for Telecommunication Sciences and Aeronomy

DATE: 6612

DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L5

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
MULTIPLE BURST

DESC: LONG RANGE OBSERVATION ; THEORY

EMPF: 261

SUJO: 2-311-000 ; 2-510-000

SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 3, Notes 49 through 62
(U)

TITL: Electromagnetic Pulse Propagation in a Disturbed Terrestrial
Waveguide (U), 74 P., (U)

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EMP 2-3-55

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: EMP 4-1-01

ABS: Radial position accuracy criteria are developed for EMP and related measurements on a surface nuclear test. These criteria are considered both for the placement of measurement stations relative to ground zero and for the knowledge of these relative positions after the stations are in place. The significant quantities which

influence these criteria are the radius of measurement, the smallest mean free path of the significant nuclear radiation, and the radius of the ionized region or the radius out to which the nuclear radiation is significant.

AUTH: Baum C.E.
CLSS: U
CORP: Air Force Weapons Lab. (Kirtland AFB, NM.)
DATE: 6602
DESC: Nuclear Test Simulation Field Programs experiment design EMP earth currents geomagnetic effects L1
DESC: THEORY
EMPF: 615
TSHO: SURFACE
SUJO: 4-824-000
SYMJ: Electromagnetic Pulse Measurement Notes; Vol. 1, Notes 1-16 (U)
TITL: Radial Position Accuracy for EMP Measurements on a Surface Nuclear Test (U), 7 P., (U)

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EMP 4-1-01

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

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INUM: JDR03-4-278
AUTH: BRUECKNER K.A.
CLSS: SRD
CORP: UNIVERSITY OF CALIFORNIA (SAN DIEGO-CALIFORNIA)
DATE: 6603
DESC: Radiation Transport x-ray
DESC: THEORY
SUJO: 9-640-000
SYMJ: JOURNAL OF MISSILE DEFENSE RESEARCH (U), VOLUME III, NUMBER 4, (SRD), P 278, MARCH 1, 1966
TEMP: 51639
TITL: ENERGY DEPOSITION BY X-RAYS (U), 6 P (SRD)
TREE: 980

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JDR03-4-278

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

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INUM: JDR04-3-275
AUTH: BRUECKNER K.A.
CLSS: SRD
CONN: DA 31 124 ARO D 257
CORP: UNIVERSITY OF CALIFORNIA (SAN DIEGO-CALIFORNIA)
DATE: 6610

DESC: THEORY
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
EMPF: 391
SUJO: 2-510-000
SYMJ: JOURNAL OF MISSILE DEFENSE RESEARCH (U), VOLUME IV, NO. 3, SRD, P
275, OCTOBER1966
TITL: PRODUCTION OF ELECTRIC FIELDS BY IONIZING RADIATION (U), 4 P (SRD)

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JDR04-3-275

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created: 12/27/1991 type: REPORT permanent

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INUM: MAD627846
ADNO: AD 627846
AUTH: CASTORINA T.C.
CLSS: U
CORP: PICATINNY ARSENAL (DOVER-NJ)
DATE: 6602
REPN: TR 3282
TITL: RADIATION-ENHANCED SURFACE ACTIVITY OF GAMMA HMX. (U), 30 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: MAD889765
ADNO: 889765
AUTH: LOWREY A.R. ; FRIDDELL K.D.
CLSS: U
CONN: AF 29 (601) 6425
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 6500
REPN: D2 84071 1
TITL: RESPONSE OF P-I-N DETECTORS TO VARIOUS NUCLEAR RADIATION
ENVIRONMENTS (U), 46 P. (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-3-35
ABS: The production of x-rays by electron bombardment of high-Z targets

is discussed in terms of intensity, angular dependence, spectrum, and number of x-ray sources for electron energies up to 10 MeV. Problems associated with the design of an x-ray tube capable of operating at a voltage of 6 MeV, current of 10 to the 5th A, and pulse duration of $3 \times 10^{(exp)-8}$ sec are considered in detail. A conical insulator tube design and ancillary hardware to operate the tube are discussed in terms of theory, and performance of the system.

AUTH: Creedon J. ; Ford F.C. ; Martin D. ; Putnam S. ; Sloan D.
CLSS: U
CORP: Physics International Co.
DATE: 6601
DESC: THEORY
DESC: Simulation Facilities Techniques TREE L1
DESC: Nuclear Physics Chemistry L1 BREMSSTRAHLUNG
SUJO: 4-272-000 ; 9-010-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 3, Notes
28-35 (U)

TITL: Advanced X-ray Tube Development (U), 122 P., (U)

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PEP 3-3-35

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created: 12/27/1991 type: REPORT permanent

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INUM: PEP 4-1-9

ABS: A feasibility study is undertaken to design an improved laboratory source of high-intensity radiation for investigating gamma radiation effects on various materials. Pulsed reactors, Cobalt-60 facilities, and commercial high-voltage radiation devices, such as accelerators and Linacs, have several drawbacks as sources for such radiation effects studies, including extreme voltage (>20 Mv) and shielding requirements, limited target currents, harder spectrum than desired, unwanted neutron production, and insufficient dose rates. An improved radiation source would produce peak x-ray dose rates of 10 to the 11th R/sec with good uniformity over a 1 ft square area in pulses of very short duration; it could be focused to prevent primary electron beam divergence and to limit secondary emissions, and designed for minimum cathode/target spacing to reduce the space charge current limitation.

ABS: The field emission diode designed as a flash x-ray tube has been proved a feasible radiation source in the multimegavolt low-impedance range. A short-pulse, low-impedance coaxial Blumlein output stage, pulse-charged by a high-energy Marx-surge primary also appears feasible as a high-power input to a hollow-beam magnetically focused flash x-ray tube. Several such tubes embodying the hollow-beam geometry have been successfully designed and evaluated in conjunction with an equally feasible Blumlein generator technique. These preliminary results permit design of a 7-Mv, 200-kamp flash x-ray system.

AUTH: Brewster J.L. ; Anderson R.E. ; Barbour J.L. ; Garrett L.F. ; Hafner

M. P. ; Riegelmann K.W. ; Siegel R.

CLSS: U
CORP: Field Emission Corp.
DATE: 6511
DESC: Simulation Facilities Techniques TREE L1
DESC: THEORY EXPERIMENTAL
SUJO: 4-272-000
SYMJ: Pulsed Electrical Power Circuit and Electromagnetic System Design
Notes; Vol. 1, Notes 1-9 (U)
TITL: Feasibility of High-Voltage X-ray Tubes as Intense Gamma and Neutron
Sources (U), 141 P., (U)

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PEP 4-1-9

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created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0102
AUTH: NATHANS M.W.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6501
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: UNDERGROUND OBSERVATION ; EXPERIMENTAL
REPN: PNE 0102
SHOT: GNOME
TSHO: UG-CONTAINED
SUJO: 2-223-100 ; 2-223-200
TITL: ISOTOPE PROGRAM-FINAL REPORT (U), PROJECT GNOME, 120 P, (U)

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PNE 0102

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created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0218
ADNO: 617709
AUTH: ALLEN J.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6507
DESC: EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design ground
shock
DESC: Nuclear Weapon Environment Ground Shock throwout projectiles
REPN: PNE 0218
SHOT: SEDAN

TSHO: UG-VENTED
SUJO: 2-626-000 ; 4-820-100
TITL: RADIOACTIVE PELLET TRAJECTORY STUDY, OPERATION PLOWSHARE, PROJECT
SEDAN (U), 29 P (U)

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PNE 0218

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

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INUM: PNE 0237
AUTH: MARTIN W.E. ; TURNER F.B.
CLSS: U
CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES-CA)
DATE: 6507
DESC: LOCAL FALLOUT LONG RANGE OBSERVATION ; EXPERIMENTAL THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

internal L1

DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1

REPN: PNE 0237

SHOT: SEDAN

TSHO: UG-VENTED

SUJO: 2-223-410 ; 3-312-220

TITL: FOOD-CHAIN RELATIONSHIPS OF RADIOSTRONTIUM IN THE SEDAN FALLOUT
FIELD, PROJECTSEDAN, PLOWSHARE PROGRAM (U), 65 P (U)

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PNE 0237

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created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0238
AUTH: MARTIN W.E.
CLSS: U
CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES-CA)
DATE: 6512
DESC: Nuclear Weapon Environment fallout Deposition topographic factors
vegetation surface roughness L1

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

DESC: EXPERIMENTAL

REPN: PNE 0238

SHOT: SEDAN

TSHO: UG-VENTED

SUJO: 2-225-600 ; 3-312-220

TITL: INTERCEPTION AND RETENTION OF RADIOACTIVE FALLOUT BY DESERT SHRUBS
IN THE SEDAN FALLOUT FIELD (U), 43 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0242

AUTH: NORDYKE M.D. ; WILLIAMSON M.M.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)

DATE: 6508

DESC: Nuclear Weapon Phenomenology cloud shape size

DESC: Nuclear Weapon Environment Airblast static overpressure OVERPRESSURE
IMPULSE

DESC: EXPERIMENTAL SUMMARY

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Environment fallout down fraction

DESC: Nuclear Weapon Effects on animals ionizing radiation

DESC: Nuclear Weapon Environment fallout intensity contours patterns

DESC: Nuclear Weapon Environment Ground Shock scaling

DESC: Environmental Conditions at Nuclear Weapon Test Site weather

DESC: Nuclear Weapon Environment Ground Shock craters excavations

DESC: Nuclear Weapon Environment radiation decay gamma decay

DESC: Nuclear Weapon Environment Ground Shock motion strain fracture

displacement particle velocity

DESC: Nuclear Weapon Environment Airblast static overpressure scaling

DESC: Nuclear Weapon Environment Ground Shock throwout projectiles

DESC: Environmental Conditions at Nuclear Weapon Test Site geology

REPN: PNE 0242

SHOT: SEDAN ; SEDAN ; DANNY BOY ; BUCKBOARD ; SCOOTER

TSHO: UG-VENTED

SUJO: 2-223-200 ; 2-223-420 ; 2-224-140 ; 2-225-100 ; 2-225-200 ;

2-611-000 ; 2-611-009 ; 2-621-000 ; 2-624-000 ; 2-625-000 ;

2-626-000 ; 3-312-000 ; 4-841-000 ; 4-842-000

TITL: SEDAN EVENT, OPERATION PLOWSHARE, PROJECT SEDAN, FINAL REPORT (U),
103 P (U)

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PNE 0242

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created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0503

AUTH: ROHRER R.

CLSS: U

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 6504

DESC: Nuclear Weapon Phenomenology base surge L1

DESC: PLOWSHARE SIMULATION (HE) ; EXPERIMENTAL

REPN: PNE 0503
TSHO: UG-VENTED
SUJO: 2-224-120
TITL: BASE SURGE AND CLOUD FORMATION; PROJECT PRE-SCHOONER (U), 11 P., (U)

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PNE 0503

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

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INUM: PNE 0504
AUTH: CAUTHEN L.J.JR.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6509
DESC: PLOWSHARE SIMULATION (HE) ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
REPN: PNE 0504
SHOT: PRE SCHOONER ; DANNY BOY
TSHO: SURFACE ; UG-VENTED
SUJO: 2-621-000
TITL: STRONG MOTION SEISMIC MEASUREMENTS; PROJECT PRE-SCHOONER (U), 31 P.,
(U)

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PNE 0504

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

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INUM: PNE 0507
AUTH: HUGHES B.C. ; BENFER R.H. ; LARNER K.L. ; HEUSINKVELD M. ; MARKS
R.E. ; ROHRERR.F. ; BEERS R.F.
CLSS: U
CORP: ARMY ENGINEER NUCLEAR CRATERING GROUP (LIVERMORE, CA.) ; LAWRENCE
RADIATION LAB. (LIVERMORE, CA.) ; ROLAND F. BEERS, INC. (ALEXANDRIA,
VA.)
DATE: 6509
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1
DESC: Environmental Conditions at Nuclear Weapon Test Site geology L5
DESC: HE SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1
DESC: Nuclear Weapon Environment Ground Shock throwout projectiles L1
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
DESC: Nuclear Weapon Phenomenology cloud development rise L1

DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L1
REPN: PNE 0507
SHOT: PRE SCHOONER 2
TSHO: UG-VENTED
SUJO: 2-224-100 ; 2-611-000 ; 2-621-000 ; 2-622-000 ; 2-623-000 ;
2-625-000 ; 2-626-000 ; 4-842-000
TITL: TECHNICAL DIRECTOR'S SUMMARY REPORT, PROJECT PRE-SCHOONER II (U),
128 P., (U)

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PNE 0507

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

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INUM: PNE 0511
ADNO: 637746
AUTH: DAY W.C. ; ROHRER R.F.
CLSS: U
CORP: ARMY/ENGINEER NUCLEAR CRATERING GROUP (LIVERMORE-CALIFORNIA) ;
LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6509
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology cloud shape size
DESC: Nuclear Weapon Phenomenology base surge
REPN: PNE 0511
SHOT: PRE SCHOONER 2
TSHO: UG-VENTED
SUJO: 2-224-120 ; 2-224-140
TITL: CLOUD DEVELOPMENT STUDIES, OPERATION PLOWSHARE, PROJECT PRE-SCHOONER
II, FINALREPORT (U), 34 P (U)

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PNE 0511

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created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0515
AUTH: HEUSINKVELD M. ; MARKS R.E.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6601
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
DESC: PLOWSHARE SIMULATION (HE) ; EXPERIMENTAL

REPN: PNE 0515
SHOT: PRE SCHOONER 2
TSHO: UG-VENTED
SUJO: 2-621-000 ; 2-622-000 ; 2-623-000
TITL: SUBSURFACE EFFECTS MEASUREMENTS; PROJECT PRE-SCHOONER II (U), 45 P.,
(U)

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PNE 0515

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created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0603
AUTH: TERHUNE R.W.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6512
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
DESC: PLOWSHARE SIMULATION (HE) ; EXPERIMENTAL
REPN: PNE 0603
TSHO: UG-VENTED ; MULTIPLE
SUJO: 2-621-000
TITL: SURFACE MOTION MEASUREMENTS; PROJECT DUGOUT (U), 116 P., (U)

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PNE 0603

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created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0700
AUTH: MISKEL J.A.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CALIFORNIA)
DATE: 6610
DESC: Nuclear Weapon Environment Fallout isotope concentrations
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield
REPN: PNE 0700
SHOT: SULKY
TSHO: UG-VENTED
SUJO: 2-223-100 ; 4-835-000
TEMP: 55522
TITL: RADIOCHEMICAL STUDIES, FINAL REPORT, PROJECT SULKY (U), 11 P (SRD)

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PNE 0700

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created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0701
AUTH: GAINES J.L.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6505
DESC: EXPERIMENT
DESC: test instruments nuclear radiation gamma L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
SURFACE OBS TROPOSPHERIC OBS
REPN: PNE 0701
SHOT: SULKY
TSHO: UG-VENTED
SUJO: 2-223-200 ; 4-341-000
TITL: TOTAL CLOUD ACTIVITY MEASUREMENTS (U), PROJECT SULKY, 34 P (U)

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PNE 0701

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0717
AUTH: MCCLENDON L.
CLSS: U
CONN: AT 29 2 162
CORP: REYNOLDS ELECTRIC AND ENGINEERING COMPANY (MERCURY-NV)
DATE: 6608
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Test safety L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
REPN: PNE 0717
SHOT: SULKY
TSHO: UG-VENTED
SUJO: 2-223-100 ; 2-223-200 ; 4-856-000
TITL: ON-SITE RADIOLOGICAL SAFETY (U), PROJECT SULKY, FINAL REPORT, 52 P,
(U)

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PNE 0717

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copy: 1 id: 88954-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0801

AUTH: MARKS R.E. ; ROGERS L.A.
CLSS: U
CCDE: SOC
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6604
DESC: test instruments test hardware velocity measurement L5
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1
DESC: Seismology L5
DESC: test instruments test hardware pressure stress L5
DESC: CLOSE IN OBSERVATION UNDERGROUND OBSERVATION ; EXPERIMENTAL
DESC: Environmental Conditions at Nuclear Weapon Test Site geology L5
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1
DESC: Soil Rock Properties Equation of State Conductivity L9 P 11 ALLUVIUM
SHALE DOLOMITE PROPERTIES
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
DESC: test instruments test hardware acceleration measurement L5
REPN: PNE 0801
SHOT: HANDCAR
TSHO: UG-CONTAINED
SUJO: 2-621-000 ; 2-622-000 ; 2-623-000 ; 4-311-000 ; 4-314-000 ;
4-315-000 ; 4-842-000 ; 6-100-000 ; 6-300-000
TITL: SHOCK FRONT STUDIES OF THE HANDCAR EVENT (U), PROJECT HANDCAR, FINAL
REPORT, 59 P, (U)

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PNE 0801

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

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INUM: PNE 0807
CLSS: U
CORP: WEATHER BUREAU (LAS VEGAS-NV)
DATE: 6511
DESC: Nuclear Weapon Test safety L1
DESC: EXPERIMENTAL
DESC: Nuclear Energy Peaceful Applications safety aspects L1
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: Nuclear Weapon Environment fallout transport L1
REPN: PNE 0807
SHOT: HANDCAR
TSHO: UG-CONTAINED
SUJO: 2-223-420 ; 2-224-200 ; 3-480-500 ; 4-856-000
TITL: WEATHER AND RADIOLOGICAL SURVEILLANCE, PROJECT HANDCAR, PLOWSHARE
PROGRAM (U),56 P (U)

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PNE 0807

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0911
AUTH: MULLEN O.W.
CLSS: U
CONN: AT (29 2) 162
CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO., INC. (MERCURY, NV.)
DATE: 6511
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9
DESC: Nuclear Weapon Environment Ground Shock craters excavations L9 SIZE

DATA

DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
REPN: PNE 0911
SHOT: PALANQUIN
TSHO: UG-VENTED
SUJO: 2-223-200 ; 2-625-000 ; 4-841-000
TITL: ON-SITE RADIOLOGICAL SAFETY REPORT; PLOWSHARE PROGRAM, PROJECT
PALANQUIN (U), 43 P., (U)

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PNE 0911

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INUM: PNE 1000
CLSS: U
CORP: EL PASO NATURAL GAS CO. ; ATOMIC ENERGY COMMISSION (LAS VEGAS, NV.)
; BUREAU OF MINES ; LAWRENCE RADIATION LAB.

DATE: 6505
DESC: PLOWSHARE ; TABULAR
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse

L5

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Energy Peaceful Applications resource production gas L1
REPN: PNE 1000
SHOT: GASBUGGY
TSHO: UG-CONTAINED
SUJO: 2-223-100 ; 2-627-000 ; 3-483-100
TITL: PROJECT GASBUGGY (U), 57 P., (U)

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PNE 1000

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INUM: PNE 5006
AUTH: PAUL R.A. ; DAY W.C.
CLSS: U
CORP: ARMY/ENGINEER NUCLEAR CRATERING GROUP (LIVERMORE-CA)
DATE: 6608
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
NEUTRON INDUCED
DESC: Soil Rock Properties Equation of State Conductivity L1 COMPOSITION
DESC: TABULAR
DESC: Nuclear Weapon Environment radiation decay gamma decay L1 NEUTRON
INDUCED
REPN: PNE 5006
SUJO: 2-223-410 ; 2-223-420 ; 6-300-000
TITL: TRACE ELEMENTS IN COMMON ROCK TYPES AND THEIR RELATIVE IMPORTANCE IN
NEUTRON-INDUCED RADIOACTIVITY CALCULATIONS (U), 31 P, (U)

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PNE 5006

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INUM: POIR 2600
AUTH: MARTIN D.G.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM) ; BOEING COMPANY
(SEATTLE-WA)
DATE: 6501
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links L1
DESC: Nuclear Weapon Effects electrical mechanical cables wires L5 TREE
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5 TREE
REPN: POIR 2600
PROJ: 2.1
SHOT: BACKSWING
TSHO: UG
SUJO: 3-221-000 ; 3-231-000 ; 4-170-000 ; 4-829-500
TEMP: 43691
TITL: TRANSIENT RADIATION EFFECTS MEASUREMENTES, OPERATION BACKSWING (U),
99 P, (SRD)

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POIR 2600

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INUM: POIR 2702 1
AUTH: UNGVARSKY J., KENNEDY S.O., COSTELLO J.A.
CLSS: SRD
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 6508
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
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 Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts L1
EFFT: TREE
REPN: POIR 2702 1
SHOT: WISH BONE
TSHO: UG-CONTAINED
SUJO: 1-110-000 ; 1-140-000 ; 1-710-000 ; 1-740-000 ; 3-220-000 ;
3-221-000
TEMP: 47020
TTTL: TRANSIENT RADIATION EFFECTS ON ELECTRONICS, OPERATION SILVER BELL,
SHOT WISH BONE, PROJECT 2.3, PROJECT OFFICERS INTERIM REPORT (U),
342 P (SRD)

TREE: 310

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POIR 2702 1

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created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2702 2
AUTH: UNGVARSKY J. ; KENNEDY S.O. ; COSTELLO J.A.
CLSS: SRD
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 6508
DESC: EXPERIMENTAL
REPN: POIR 2702 2
SHOT: WISH BONE
TSHO: UG-CONTAINED
TEMP: 47011
TTTL: TRANSIENT RADIATION EFFECTS ON ELECTRONICS, OPERATION SILVER BELL,
SHOT WISH BONE, PROJECT 2.3, PROJECT OFFICERS INTERIM REPORT (U), 86
P (SRD)

TREE: 310

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POIR 2702 2

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INUM: POIR 2703
AUTH: BENSON R.K.
CLSS: SRD
CORP: ARMY/PICATINNY ARSENAL (DOVER-NJ), NORTHROP CORPORATION (NEWBURY
PARK-CA)
DATE: 6509
DESC: Nuclear Weapon Effects electronic subsystems computers memory
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems guidance control
EFFT: TREE ; NUCLEAR RADIATION
REPN: POIR 2703
SHOT: WISH BONE
TSHO: UG-CONTAINED
SUJO: 1-110-000 ; 1-710-000 ; 3-211-000 ; 3-212-000 ; 3-221-000 ;
4-829-500
TEMP: 47198
TITL: VULNERABILITY OF SETTABLE INERTIAL ALTITUDE SENSOR, OPERATION SILVER
BELL, SHOT WISH BONE, PROJECT OFFICERS INTERIM REPORT, PROJECT 2.4
(U), 218 P(SRD)

TREE: 342

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POIR 2703

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INUM: POIR 2705
AUTH: RENFRO J. ; YAMADA D.A.
CLSS: SRD 1
CORP: NAVY/SPECIAL PROJECTS OFFICE (WASHINGTON-DC) LOCKHEED MISSILES AND
SPACE COMPANY (SUNNYVALE-CA)
DATE: 6507
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems computers memory
DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches
EFFT: TREE

REPN: POIR 2705
SHOT: WISH BONE
TSHO: UG-CONTAINED
SUJO: 3-212-000 ; 3-229-000 ; 4-829-500
TEMP: 45802
TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONIC COMPONENTS AND CIRCUITS,
OPERATION SILVER BELL, SHOT WISH BONE, PROJECT OFFICERS INTERIM
REPORT, PROJECT 2.6 (U), 146 P (SRD)

TREE: 341

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POIR 2705

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created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2706
AUTH: MCNEILLY J.H., JACOBSON J.R., HILTON C.G., NORRIS W.W.
CLSS: SRD
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)
DATE: 6507

DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity

REPN: POIR 2706
SHOT: WISH BONE
TSHO: UG-CONTAINED
SUJO: 1-110-000 ; 1-710-000 ; 4-820-300
TEMP: 45793
TITL: NEUTRON-FLUX AND GAMMA-RADIATION-DOSE MEASUREMENTS, OPERATION SILVER
BELL, SHOT WISH BONE, PROJECT OFFICERS INTERIM REPORT, PROJECT 2.7
(U), 61 P (SRD)

TREE: 910 ; 920

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POIR 2706

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created: 12/27/1991 type: REPORT permanent

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INUM: POIR 2717
ADNO: 377409
AUTH: JACOBSON J.R. ; STUETZER M. ; GABRIELSON E. ; BRADY R.E. ; MCNEILLY
J.H.
CLSS: SRD-1
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MARYLAND)
DATE: 6611

DESC: EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design gamma experiments
DESC: Nuclear Weapon Environment Prompt Neutron source strength total fluence
DESC: Nuclear Test Simulation Field Programs experiment design neutron experiments
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum
DESC: Nuclear Weapon Environment Initial Gamma source strength total intensity
REPN: POIR 2717 ; WT 2717 (POIR)
SHOT: PIN STRIPE
TSHO: UG-CONTAINED ; LOW-ALT
SUJO: 1-110-000 ; 1-120-000 ; 1-710-000 ; 4-820-300 ; 4-820-400
TEMP: 53124
TITL: NEUTRON FLUENCE AND GAMMA-RADIATION-EXPOSURE MEASUREMENTS, OPERATION SILVER BELL, SHOT PIN STRIPE, PROJECT OFFICERS INTERIM REPORT, PROJECT 2.10 (U), 81 P (SRD)

TREE: 910 ; 920

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POIR 2717

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created: 12/27/1991 type: REPORT permanent

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INUM: POIR 5001
AUTH: TASLITT N.
CLSS: SRD
CORP: NAVY/NAVAL ORDNANCE LAB (WHITE OAK-MD)
DATE: 6601
DESC: Nuclear Weapon Environment Prompt Neutron source strength total fluence
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses
DESC: Nuclear Test Simulation Field Programs experiment design aerospace systems

DESC: EXPERIMENTAL TABULAR

REPN: POIR 5001

SHOT: DILUTED WATERS

TSHO: UG-CONTAINED ; HI-ALT ; LOW-ALT

SUJO: 1-110-000 ; 3-162-000 ; 4-829-100

TEMP: 49198

TITL: RADIATION EFFECTS ON NOL ELECTRONIC SYSTEMS, OPERATION SILVER BELL, SHOT DILUTED WATERS, PROJECT 2.1, PROJECT OFFICERS INTERIM REPORT (U), 78 P (SRD)

TREE: 392

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POIR 5001

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