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INTRODUCTION

The Los Alamos Scientific Laboratory (LASL), which is operated for the U.S. Department of Energy by the University of California, was founded in 1943 at the site of the Los Alamos Ranch School, a boys' preparatory school in the mountains of northern New Mexico, as part of the wartime Manhattan Project. It had a single assignment--to create the world's first nuclear fission bombs. Success in that task, one of the greatest scientific and technological achievements of all time, was followed by equal success in developing the first thermonuclear weapons. Since 1952, the Laboratory has diversified its programs, and, while still serving as one of the nation's two development centers for nuclear weapons, LASL now devotes about one half of its total effort to unclassified research exploring several peaceful applications of nuclear, conventional and alternative forms of energy. LASL research covers a broad spectrum, ranging from medium and low-energy nuclear physics research to programs involving medical and biological effects of radiation and basic work in molecular and cellular biology.

Major non-weapons research activities at Los Alamos involve energy research in fields such as superconducting electrical energy transmission and storage, solar and geothermal energy development, laser fusion research and laser isotope separation, and controlled thermonuclear research using magnetic confinement.

Facilities used in such research at the Laboratory include specialized laboratories; a nuclear reactor designed for a variety of experiments; particle accelerators such as the 24-MeV, three-stage Van de Graaff particle accelerator and the 27-MeV electron accelerator designed to produce a very intense, very short burst of x rays for high-speed flash radiography. At LAMPF, where physics and biomedical experiments are carried out, and where production of a variety of radioisotopes for medical use is under way, an 800-MeV, 1-mA-beam linear accelerator is used to produce beams of protons, mesons, and other nuclear particles with intensities up to 10,000 times greater than those available elsewhere. Another of the Laboratory's facilities, Scyllac, is a toroidal theta-pinch device for controlled thermonuclear research involving magnetic confinement of hot plasmas for fusion research. A Central Computing Facility with two CRAY-1s, four CDC 7600s, two CDC 6600s, and two CYBER 70s assists in the Laboratory's research.

LASL, as of 1979, employed about 7,000 persons, about one-third of whom are scientists and engineers. The total operating costs--excluding construction--of the Laboratory are about \$360 million per year. The value of the DOE-owned buildings and equipment at Los Alamos is about \$725 million.

PREFACE

The LASL Libraries' continuing program of locating, recording, and announcing publications of LASL-sponsored research has resulted in the previous publications: "Selected Bibliography of Publications of LASL Research, 1957-1962," (LAMS-2895 and supplement), "Publications of LASL Research," for each of the years 1963 through 1966, "Publications of LASL Research, 1967-1971," (LA-5400-MS), "Publications of LASL Research, 1972-1976," (LA-6755-MS, Vol. 1 and Vol. 2), and "Publications of LASL Research, 1977" (LA-7248-MS) and "Publications of LASL Research, 1978" (LA-8318-MS).

This bibliography is a compilation of unclassified publications of work done at the Los Alamos Scientific Laboratory for 1979. Papers published in 1979 are included regardless of when they were actually written. Publications received too late for inclusion in earlier compilations have also been listed. Declassification of previously classified reports is considered to constitute publication. All classified issuances are omitted--even those papers, themselves unclassified, which were published only as part of a classified document. If a paper was published more than once, all places of publication are included.

The bibliography includes Los Alamos Scientific Laboratory reports, papers released as non-LASL reports, journal articles, books, chapters of books, conference papers whether published separately or as part of conference proceedings issued as books or reports, papers published in congressional hearings, theses,

and U.S. patents. Publications by LASL authors that are not records of Laboratory-sponsored work are included when the Library becomes aware of them.

The arrangement in each bibliographical citation is title first, place(s) of publication indented, then authors, further indented. The CHEMICAL ABSTRACTS abbreviation is used for journal citations except for the capitalization. The group designations given after the authors' names indicate the groups with which the authors were associated at the time the papers were written. Parenthetical information includes report and reprint numbers, book call numbers, and patent numbers. The parentheses indicate the information by which Los Alamos borrowers may obtain the material from the LASL Libraries.

The entries are arranged in sections by broad subject categories. Within each section they are alphabetical by title. All types of publications are interfiled.

The author and numerical indexes refer to the item numbers, which consist of a number designating the section, followed by a dash and a number for the alphabetic arrangement of the item within the section. In the numerical index, the LA and LA-xxxx-MS numbers of formal reports are interfiled.

There is a Keyword-in-Context index in microfiche format in a pocket at the end of the volume.

Most of the reports listed in this publication are available for sale from

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The Libraries gratefully acknowledge the assistance of members of LASL's Computer Science & Services Division and the Administrative Automatic Data Processing Department for assistance with the computerized system for handling publication information.

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LAWRENCE, FRANCINE O. (CNC-11)
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JAIN, MAHAVIR (Q-1)
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JACOBSEN, SUE I. (G-5)
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GRAD, HAROLD
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FREIDBERG, JEFFREY P. (CTR-6)
SCHNEIDER, D. W. (CTR-6)
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THODE, LESTER E. (T-15)

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VAN DER LAAN, PIETER C. (CTR-DO)

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HAGENSON, RANDY L. (CTR-12)
MOSES, RONALD W. JR. (CTR-6)
KRKOWSKI, ROBERT A. (CTR-12)

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POWER REACTOR. PRELIMINARY SCALING
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BALANCE.

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TAI, A. S. (CTR-12)
KRKOWSKI, ROBERT A. (CTR-12)

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BOICOURT, GRENFELL P. (CTR-11)

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TO VACUUM INTERRUPTERS.

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WARREN, ROGER W.

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WARREN, ROGER W. (CTR-9)

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STEAM-GENERATING BLANKET FOR A
LONG-PULSE FUSION REACTOR.

TIC
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CORT, GEORGE E. (WX-4)
HAGENSON, RANDY L. (CTR-12)
TEASDALE, RICHARD W. (WX-4)
FOX, WILL E. (WX-4)
SORAN, PATRICK D. (TD-6)
CULLINGFORD, HATICE (WX-4)
BATHKE, CHARLES G. (CTR-12)
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KRKOWSKI, ROBERT A. (CTR-12)

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GRIBBLE, ROBERT F. (CTR-3)
CANTRELL, EMMETT L. (CTR-4)

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JONES, LARRY A. (P-1)
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MILLER, GUTHRIE (CTR-3)
SIEMON, RICHARD E. (CTR-3)

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PINCH PROGRAM.
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BUCHENAUER, C. JERALD (CTR-7)
BURKHARDT, LOUIS C. (CTR-2)
CHU, C. K.
DI MARCO, JOSEPH N. (CTR-7)
DOWNING, JAMES N. JR. (CTR-7)
HABERSTICH, ALBERT (CTR-2)
HOWELL, ROBERT B. (CTR-2)
JACOBSON, ABRAM R. (CTR-2)
KARR, HUGH J.
LITTLE, EDWARD M. (CTR-7)
MACHALEK, MILTON D. (AT-4)
PARK, WONCHULL
SCHOFIELD, ALDRED E. (CTR-2)
SGRO, ANTHONY G. (CTR-6)
THOMAS, KEITH S. (CTR-7)
VAN DER LAAN, PIETER C. (CTR-DO)

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CORT, GEORGE E. (WX-4)

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CONSIDERATIONS FOR IMPACT FUSION.
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ROWLEY, JOHN C. (G-DOT)
CARWILE, CLIFTON

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DOVE, RICHARD C. (Q-13)

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GRAF, JOSEPH M. (H-1)
WALKER, L. J. (H-1)

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DAVIDSON, KEITH V. (CMB-6)
KOENIG, DANIEL R. (Q-13)
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MALENFANT, RICHARD E. (Q-14)
MARTZ, HARRY F., JR. (S-1)
RANKEN, WILLIAM A. (Q-15)
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SCHILLING, F.
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STROH, KENNETH R. (Q-6)

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O'DELL, R. DOUGLAS (T-1)

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FUJITA, ROBERT K.
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KIRCHNER, WALTER L. (Q-8)
MEIER, JOHN K. (Q-9)
PYUN, JUNGJO
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APPENDIX C - DEWAR AND STRUCTURAL
SUPPORT.
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BEMENT, THOMAS R. (Q-5)
CAMPBELL, KATHERINE (S-1)
HOWELL, JO ANN (C-3)
WECKSUNG, GEORGE M. (M-8)
WHITEMAN, DAVID E. (S-1)

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BEMENT, THOMAS R. (S-1)
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BUNKER, MERLE E. (P-2)
WATERBURY, GLENN R. (CMB-1)
WALLER, RAY A. (S-1)

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EVANS, MICHAEL L. (Q-1)

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 COX, KENNETH E. (CMB-3)
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 NELSON, SCHUEL H.
 PALMER, RONALD G. (Q-12)
 PEMBERGRASS, JOHN H. (L-5)
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 COX, LAWRENCE E. (CMB-1)
 SIMI, OLIVER R. (CMB-1)
 BIENIEWSKI, THOMAS M. (CMB-1)
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 TRUJILLO, LORENZO A.
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NOEL, BRUCE W. (J-8)
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FRANKS, L. A.
PIGG, J. L.

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CALDWELL, DOUGLAS E.
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CALDWELL, DOUGLAS E.
HALLETT, RICHARD

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CALDWELL, DOUGLAS E.
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CROWE, BRUCE M. (G-6)

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ALAMOS. LOS ALAMOS EXPERIENCE AND
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WARREN, JOHN L. (Q-DO)

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BARRACLOUGH, BRUCE L. (CMB-1)
ZERWEKH, AL (CMB-1)

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UNDER CONDITIONS EXPECTED IN THE WASTE
ISOLATION PILOT PROJECT (WIPP)
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BARRACLOUGH, BRUCE (CMB-1)
ZERWEKH, AL (CMB-1)

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SCHULTE, HARRY F. (H-5)

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IMAN, RONALD L.
PAVUR, ROBERT (S-1)
BRUCKNER, LAWRENCE A. (S-1)

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WANEK, PATSY L. (CMB-8)

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SCHMIDT, STEPHEN C. (G-7)

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ASH, KATHERINE A.

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BRUCKNER, LAWRENCE A. (S-1)

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FAEHL, R. J. (T-15)

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SECTION OF THE FMIT DEUTERON LINAC.

TIC
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BOICOURT, GRENFELL P. (AT-4)
SWENSON, DONALD A. (AT-1)

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CHARACTERISTICS.

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VAN DYCK, OLIN B. (MP-13)
HOFFMAN, EARL WAYNE (MP-13)
MACEK, R. (MP-13)
SANDERS, G. (MP-13)
WERBECK, RICHARD D. (MP-7)
BLACK, JOEL KEVIN (MP-13)

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COLLECTIVE ION ACCELERATION
OCTOBER, 1977 - SEPTEMBER, 1978.

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FAEHL, R. J. (T-15)
GODFREY, BRENDAN B. (T-15)
SHANAHAN, WILLIAM R. (T-15)

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COMPUTER MODELING OF THE GYROCON.

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1979, 4P. MN (LA-UR-79-C704)
TALLERICO, PAUL J. (AT-1)
RANKIN, JAMES E. (AT-1)

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DESIGN OF THE ACCELERATING STRUCTURES
FOR FMIT.

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1979, 4P. MN (LA-UR-79-0700)
LISKA, DONALD J. (AT-4)
SCHAMAUN, ROGER G. (AT-4)
POTTER, ROGER G.
FULLER, CHARLES W. (AT-4)
CLARK, DONALD C. (AT-4)
GREENWOOD, DONALD R. (AT-4)
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KRAUSSE, GEORGE J., III (MP-4)

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KICKER SYSTEM.

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THOMPSON, MELVIN C. (E-2)

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PROPERTIES OF THE DISK - AND - WASHER
STRUCTURE.

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POTTER, JAMES M. (AT-1)
SCHRIBER, S. O. (AT-1)
HUMPHRY, FREDERICK J. (AT-1)

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AND WASHER LINAC STRUCTURE.

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SWENSON, DONALD A. (AT-1)

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FMIT ACCELERATOR VACUUM SYSTEM.

TIC
1979, 4P. MN (LA-UR-79-0713)
MACALEK, MILTON D. (AT-4)
MEYER, EARL A. (AT-4)
PRICE, LARRY S.

47-14
GENERAL LEAST - SQUARES FITTING
PROCEDURES TO MINIMIZE THE VOLUME OF A
HYPERELLIPOID.

TIC
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WADLINGER, E. ALAN (AT-2)

47-15
GRAPHITE TARGETS FOR USE IN HIGH
INTENSITY BEAMS AT LAMPF.

TIC
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AGNEW, LEWIS E. JR. (MP-DO)
BALDWIN, THOMAS S. (MP-7)
GRISHAM, DONALD L. (MP-7)
HOLMBERG, RAYMOND C. (MP-7)
LAMBERT, JAMES E. (MP-7)
LUNDQUIST, LLOYD O. (MP-7)
REISWIG, ROBERT D. (CMB-6)
THORN, LINAS L. (MP-7)

47-16
HIGH - ENERGY BEAM TRANSPORT IN THE
HANFORD EMIT LINEAR ACCELERATOR.

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RIVERA, OLIVER M. (MP-3)
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BOICOURT, ROSEMARY M. (T-2)

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KENT, RICHARD A. (CMB-11)

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SCANDIUM -47 BY THE TITANIUM -47
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GOODE, WILLIAM E. (H-8)

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1978.
LASL,
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EMIGH, C. ROBERT (Q-DO)
BRESLOW, MICHAEL (Q-DO)

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FLUID SAMPLERS FOR STUDYING ROCK - FLUID
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CHARLES, ROBERT W. (CNC-11)
BAYHURST, GREGORY K. (CNC-11)
VIDALE, ROSEMARY J. (CNC-11)

56. SAFEGUARDS--NUCLEAR MATERIALS SECURITY

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FUEL CYCLE, OCTOBER 1, 1977 - SEPTEMBER
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WATERBURY, GLENN R. (CMR-1)

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COCONVERSION OF URANIUM - PLUTONIUM
NITRATE SOLUTION OF OXIDE, OCTOBER 1 -
DECEMBER 31, 1978.

LAST
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BOWERSOX, DAVID F. (CMB-11)
DOOLEY, G. RICHARD (Q-1)
ENSSLIN, NORBERT (Q-1)
SPIER, LESLIE GAYLE (Q-1)
SPIRIO, CARMELO A. (Q-1)
TAPE, JAMES W. (Q-1)
WALTON, GREGORY (Q-1)
WALTON, RODDY B. (Q-1)

56-5
COOLING-TIME DETERMINATION OF SPENT
FUEL

TIC
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HSUE, SIN-TAO (Q-5)
HATCHER, CHARLES R. (Q-1)
KAIEDA, KEISUKE (Q-5)

56-6
COORDINATED SAFEGUARDS FOR MATERIALS
MANAGEMENT IN A URANIUM - PLUTONIUM
NITRATE - TO OXIDE COCONVERSION
FACILITY. COPRECAL.

LAST
1979. SEPARATE PAGING. (LA-07521)
DAYEM, HASSAN ALY (Q-4)
COBB, DONALD D. (Q-4)
DIETZ, RUDOLPH J. JR. (Q-4)
HAKKILA, E. ARNOLD (Q-4)
KERN, EDWARD A. (Q-4)
SCHELOMKA, EDWARD P. (Q-4)
SHIPLEY, JAMES P. JR. (Q-4)
SMITH, DARRYL B. (Q-4)

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DAYEM, HASSAN ALY (Q-4)

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CORRECTION FOR VARIABLE MODERATION
AND MULTIPLICATION EFFECTS
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BARON, NORTON (Q-3)

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ACCOUNTING.

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SHIPLEY, JAMES P. JR. (Q-4)

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DESCRIPTION AND OPERATION MANUAL FOR THE
ACTIVE WELL COINCIDENCE COUNTER.

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1979. 31P. (LA-07823-W)
MENLOVE, HOWARD O. (Q-5)

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TIC
1979. 4P. MN (LA-UR-79-1021)
HAGEN, JANE (Q-3)
FORD, ROBERT F. (F-5)

56-12
EVALUATION OF IN - LINE NONDESTRUCTIVE
ASSAY SYSTEMS, JANUARY 1 - MARCH 31,
1979.

LAST
1979, 10P. (LA-07859-PR)
BOWERSOX, DAVID F. (Q-1)
FOLEY, RICHARD (Q-1)
ENSSLIN, NORBERT (Q-1)

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EVALUATION OF IN - LINE NONDESTRUCTIVE
ASSAY SYSTEMS, APRIL 1 - JUNE 30, 1979.

LAST
1979, 11P. (LA-08091-PR)
BOWERSOX, DAVID F. (Q-1)
ENSSLIN, NORBERT (Q-1)
HSUE, SIN-TAO (Q-1)
SPIRA, LESLIE GAYLE (Q-1)
SPIRA, CARMELO A. (Q-1)
TAPE, JAMES W. (Q-1)
WALTON, GREGORY (Q-1)
WALTON, RODDY B. (Q-1)

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EVALUATION OF IN - LINE NONDESTRUCTIVE
ASSAY SYSTEMS.

LAST
1980, 15P. (LA-08202-PR)
BOWERSOX, DAVID F. (Q-1)
ENSSLIN, NORBERT (Q-1)
HSUE, SIN-TAO (Q-1)
JOHNSON, SUSAN S. (Q-1)
SPIRA, LESLIE GAYLE (Q-1)
SPIRA, CARMELO A. (Q-1)
TAPE, JAMES W. (Q-1)
WALTON, GREGORY (Q-1)
WALTON, RODDY B. (Q-1)

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EXPERIMENTAL COMPARISON OF THE ACTIVE
WELL COINCIDENCE COUNTER WITH THE
RANDOM DRIVER.

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1979, 25P. (LA-07887-MS)
MENLOVE, HOWARD J. (Q-5)
ENSSLIN, NORBERT (Q-1)
SAMPSON, THOMAS E. (Q-2)

56-16
FINITE ELEMENT METHOD FOR STUDYING
TRANSIENT NONLINEAR THERMAL CREEP
OF GEOLOGICAL STRUCTURES.

LAST
1979, 33P. (LA-07881-MS)
ANDERSON, CHARLES A. (Q-13)
BRIDWELL, RICHARD J. (Q-6)

56-17
GAMMA DOSES FROM IRRADIATED ASSEMBLIES
UNDER WATER.

LAST
1979, 29P. (LA-07914-MS)
FINARD, PHILLIP M. (Q-5)

56-18
IRRADIATED FUEL MONITORING BY CERENKOV
LOW INTENSITY MEASUREMENTS.

LAST
1979, 10P. (LA-07848-MS)
WOLFE, EDWARD J. (Q-2)
WILSON, NICHOLAS (Q-2)
CALDWELL, JOHN T. (Q-3)

56-19
LARGE VEHICLE PORTAL MONITOR FOR
PERIMETER SAFEGUARDS APPLICATIONS.

LAST
1979, 35P. MN (LA-UR-79-1322)
CALDWELL, JOHN T. (Q-3)
ATKINS, HENRY E. (Q-3)
BERNARD, WILLIAM (Q-3)
RYAN, JOHN W. (Q-3)
SHINE, EDWARD A. (Q-2)

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INTERNATIONALLY SAFEGUARDED FUELS
REPROCESSING PLANT, VOL. 2.

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HAKKILA, E. ARNOLD (Q-4)
COBB, DONALD D. (Q-4)
DAYEN, HASSAN ALY (Q-4)
DIETZ, RUDOLPH J. JR. (Q-4)
MARKIN, JACK T. (Q-4)
SHIPLEY, JAMES P. JR. (Q-4)
SCHIFFMAN, L. A.

56-21
MATERIALS MANAGEMENT IN AN
INTERNATIONALLY SAFEGUARDED FUELS
REPROCESSING PLANT, VOL. II APPENDIX.

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COBB, DONALD D. (Q-4)
DAYEN, HASSAN ALY (Q-4)
DIETZ, RUDOLPH J. JR. (Q-4)
FOLEY, JOHN E. (Q-4)
GUTMACHER, R. G. (Q-4)
MARKIN, JACK T. (Q-4)
MENLOVE, HOWARD J.
OSTENAK, CARL ANDREW (Q-4)
PHILLIPS, JOHN R. (Q-5)
REILLY, T. DOUGLAS (Q-5)
SHIPLEY, JAMES P. JR. (Q-4)
SMITH, DARRYL B. (Q-4)
THOMAS, CHARLES C. JR. (Q-3)
WHITTY, WILLIAM J. (Q-4)
BEVERLEIN, A. L.
BENNETT, J. E.
BURKHART, L. E.
ENGER, D. C.
GERMAR, A. E.

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MEASUREMENT CONTROL PROGRAM FOR IN-LINE
NDA INSTRUMENTS.

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SEVERE, W. R. (Q-3)
THOMAS, CHARLES C. JR. (Q-3)

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AND EVALUATION OF ADVANCED MATERIALS
ACCOUNTING SYSTEMS.

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DAYEM, HASSAN ALY (Q-4)

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EVANS, MICHAEL L. (Q-1)

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CLOSE, DONALD A. (Q-1)
KRICK, MERLYN S. (Q-1)
MENLOVE, HOWARD O. (Q-1)

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NEW CONTAINMENT AND SURVEILLANCE PORTAL
MONITOR DATA ANALYSIS METHOD.

TIC
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HENRY, CARL N. (Q-2)
PRATT, JOHN C. (Q-2)

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NEW INSTRUMENT FOR THE CONFIRMATION OF
DECLARED POWER HISTORIES OF CENTRAL
STATION NUCLEAR POWER PLANTS.

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DOWDY, EDWARD J. (Q-2)
ROBBA, ARNOLD A. (Q-2)
HASTINGS, RAY D. (Q-2)
FRANCE, STEPHEN W. (Q-2)

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NONDESTRUCTIVE ASSAY INSTRUMENTS FOR
THE DYMAC PROGRAM AT THE
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LABORATORY.

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MARSHALL, ROBERT S. (Q-3)

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AND COOLING TIMES OF IRRADIATED FUEL
ASSEMBLIES.

TIC
1979, 8P. MN (LA-UR-79-1037)
PHILLIPS, JOHN R. (Q-5)
HSUE, SIN-TAO (Q-5)
KATADA, KEISUKE (Q-5)
LEE, DAVID M. (Q-5)
HALBIG, JAMES K. (Q-5)
MEDINA, EVITA G. (Q-1)
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BEMENT, THOMAS R. (Q-5)

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STEVENSON, MICHAEL G. (Q-DO)

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GARDNER, SAMUEL D. (Q-DO)

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DEVELOPMENT PROGRAM STATUS REPORT
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DEVELOPMENT PROGRAM STATUS REPORT.
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GARDNER, SAMUEL D. (Q-DO)

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DEVELOPMENT. PROGRAM STATUS REPORT -
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GARDNER, SAMUEL D. (Q-DO)

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COBB, DONALD D. (Q-4)
DAYEM, HASSAN ALY (Q-4)
DIETZ, RUDOLPH J., JR. (Q-4)

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ON-SITE INSPECTION PROCEDURES FOR SNM
DOORWAY MONITORS.

LASL
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FEHLAU, PAUL E. (Q-2)
SAMPSON, THOMAS E. (Q-2)
HENRY, CARL N. (Q-2)
BIERI, JOHN M. (Q-2)
CHAMBERS, WILLIAM H. (Q-DO)

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PASSIVE NEUTRON ASSAY OF IRRADIATED
NUCLEAR FUELS.

LASL
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HSUE, SIN-TAO (Q-5)
STEWART, JAMES E. (Q-6)
KATEDA, KEISUKE (Q-5)
HALBIG, JAMES K. (Q-5)
PHILLIPS, JOHN R. (Q-5)
LEE, DAVID M. (Q-5)
HATCHER, CHARLES R. (Q-1)

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MATERIALS ACCOUNTING SYSTEMS.

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COBB, DONALD D. (Q-4)
SHIPLEY, JAMES P., JR. (Q-4)

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PLUTONIUM SOLUTION ASSAY SYSTEM BASED ON
HIGH RESOLUTION GAMMA - RAY
SPECTROSCOPY.

LASL
1980, 14P. (LA-08140-MS)
PARKER, JACK L. (Q-1)

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PORTABLE NEUTRON COINCIDENCE COUNTER
FOR ASSAYING LARGE PLUTONIUM SAMPLES.

TIC
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KRICK, MERLYN S. (Q-1)
EVANS, MICHAEL (Q-1)
ENSSLIN, NORBERT (Q-1)
HATCHER, CHARLES R. (Q-1)
MENLOVE, HOWARD O. (Q-1)
SAPIR, JOSEPH L. (Q-DO)
DECAROLIS, M.
RAMALHO, A.

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MANAGEMENT IN AN INTERNATIONALLY
SAFEGUARDED NUCLEAR - WASTE GEOLOGIC
REPOSITORY.

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OSTENAK, CARL ANDREW (Q-4)
WHITTY, WILLIAM J. (Q-4)
DIETZ, RUDOLPH J., JR. (Q-4)

56-43
PRODUCTION OF IRON NUCLIDES IN THERMAL
FISSION, AND 14.1 - MEV NEUTRON SOURCES.

LASL
1979, 6P. (LA-07802-MS)
MAC INNES, MICHAEL R.
KANTFLO, MARTIN

56-44
QUICK AND ACCURATE PROFILE MONITOR FOR
IRRADIATED FUEL.

TIC
1979, 8P. MN (LA-UR-79-1020)
LEE, DAVID M. (Q-5)
PHILLIPS, JOHN R. (Q-5)
HSUE, SIN-TAO (Q-5)
KATEDA, KEISUKE (Q-5)
HALBIG, JAMES K. (Q-5)
MEDINA, EVITA G. (Q-1)
HATCHER, CHARLES R. (Q-1)

56-45
RESULTS OF ELEMENTAL ANALYSES OF WATER
AND WATERBORNE SEDIMENT SAMPLES FROM
THE FAIRBANKS NTMS QUADRANGLE, ALASKA.

LASL
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SHARP, ROBERT R. JR. (Q-5)
AAMODT, PAUL L. (Q-5)
HILL, DWIGHT E. (Q-5)

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SAVANNAH RIVER PLANT CALIFORNIUM-252
SHUFFLER SOFTWARE MANUAL.

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JOHNSON, SUSAN S. (Q-1)
CRANE, T. W. (Q-1)
ECCLESTON, GEORGE W. (Q-1)

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SELECTED NONDESTRUCTIVE ASSAY
INSTRUMENTATION FOR AN INTERNATIONAL
SAFEGUARDS SYSTEM AT URANIUM ENRICHMENT
PLANTS.

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TAPE, JAMES W. (Q-1)
BAKER, MICHAEL P. (Q-1)
STRITTMATTER, RICHARD (Q-1)
JAIN, MAHAVIR (Q-1)

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ENSSLIN, NORBERT (Q-1)
STEWART, JAMES E. (TD-6)
SAPIR, JOSEPH L. (Q-DO)

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MORRIS, ROGER A. (M-1)

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NETWORK PROVIDES DATA -
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KUCKERTZ, THOMAS H. (E-5)
NICHOLSON, NICHOLAS (Q-2)

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LOWRY, LUTHER L. (Q-5)
AUGUSTSON, RONALD H. (Q-3)

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INSTRUMENTATION, NEW DEVELOPMENTS
AND DIRECTIONS AT THE LOS ALAMOS
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TIC
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CLOSE, DONALD A. (H-1)
UMBARGER, C. JOHN (H-1)
WEST, LEON, JR. (H-1)
SMITH, W. JOHN, II (H-1)
CATES, MICHAEL REID (J-14)
NOEL, BRUCE W. (H-8)
HONEY, FRANCIS J. (J-8)
FRANKS, L.
PIGG, J. L.
TRUNDLE, A. S.

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VERIFICATION STATION FOR SANDIA/ROCKWELL
PLUTONIUM PROTECTION SYSTEM.
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NICHOLSON, NICHOLAS (Q-2)
HASTINGS, RAY D. (Q-2)
HENRY, CARL N. (Q-2)

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X-RAY LILI EDGE DENSITOMETER FOR ASSAY
OF MIXED S.N.M. SOLUTIONS.
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RUSSO, P. A. (Q-1)
CANADA, THOMAS R. (Q-3)
LANGNER, D. G. (Q-1)
TAPE, JAMES W. (Q-1)
HSUE, SIN-TAO (Q-5)
COWDER, LEO ROSS (Q-1)
MOSELEY, W. CLANTON
REYNOLDS, LAMAR
THOMPSON, MAJOR C.

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HERR, KENNETH C.
WOOD, B. E.

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COLLIER, ROBERT K. (Q-11)

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KRUPKA, MILTON C. (S-20T)

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DIRECT SOLAR PUMPED LASER.

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VOLKIN, HOWARD C. (L-5)

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SOLAR ENERGY.

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ROACH, JAMES F. (S-2)
NOLL, SCOTT A. (S-2)

57-6
EFFECT OF DESIGN PARAMETER CHANGES ON
THE PERFORMANCE OF THERMAL STORAGE WALL
PASSIVE SYSTEMS.

TIC
1979, 8P. MN (LA-UR-79-0423)
MC FARLAND, ROBERT D. (Q-11)
BALCOMB, J. DOUGLAS (Q-DO)

57-7
EXPERIMENTAL EVALUATION OF PHASE CHANGE
MATERIAL BUILDING WALLS USING SMALL
PASSIVE TEST BOXES.

TIC
1979, 7P. MN (LA-UR-79-2175)
COLLIER, ROBERT K. (Q-11)
GRIMMER, DERRICK P. (Q-11)

57-8
LOW TEMPERATURE FLAT-PLATE COLLECTOR
SPACE/WATER HEATING.

TIC
1978, 6P. MN (LA-UR-79-0585)
MOORE, STANLEY W. (Q-11)

57-9
NIGHT STORAGE AND BACKUP GENERATION
WITH ELECTROCHEMICAL ENGINES.

TIC
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ELLIOTT, GUY R. B. (G-7)
VANDERBORGH, NICHOLAS E. (G-7)

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BUILDING CONSERVATION OPTIMIZATION.
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NOLL, SCOTT A. (S-2)
THAYER, M.

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COLLIER, ROBERT K. (Q-11)

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