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**ENVIRONMENTAL  
RESTORATION  
PROGRAM**

**Nuclear Facility Decommissioning  
and Site Remedial Actions:  
A Selected Bibliography, Vol. 18**

**Part 2. Indexes**

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MANAGED BY  
LOCKHEED MARTIN ENERGY SYSTEMS, INC.  
FOR THE UNITED STATES  
DEPARTMENT OF ENERGY

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## PREFACE

This report, *Nuclear Facility Decommissioning and Site Remedial Actions: A Selected Bibliography, Vol. 18 (ES/ER/TM-227)*, was prepared for the U.S. Department of Energy, Office of Environmental Restoration. This work was performed under Activity Data Sheet OR HQ 447. Publication of this document meets a Headquarter-controlled milestone of September 30, 1997.

This document is intended to serve a variety of information needs for individuals with an interest or involvement in environmental restoration activities, nuclear facility decontamination and decommissioning, uranium mill tailings management, and site remedial actions.

In addition to the main bibliographic text with abstracts, indexes of authors, author affiliations, selected title phrases, selected title words, publication descriptions, geographic locations, and keywords are provided.



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## ABBREVIATIONS

AEC	U.S. Atomic Energy Commission
ALARA	as low as reasonably achievable
BRC	below regulatory concern
BWR	boiling water reactor
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
D&D	decontamination and decommissioning
DNAPL	dense nonaqueous phase liquid
DOD	U.S. Department of Defense
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
ER	environmental restoration
FS	feasibility study
FUSRAP	Formerly Utilized Sites Remedial Action Program
FY	fiscal year
GAO	U.S. General Accounting Office
HEPA	high-efficiency particulate air
IAEA	International Atomic Energy Agency
LWR	light-water reactor
NAPL	nonaqueous phase liquid
NEPA	National Environmental Policy Act
NORM	naturally occurring radioactive materials
NPL	National Priorities List
NPP	nuclear power plant
NRC	U.S. Nuclear Regulatory Commission
OTD	U.S. Office of Technology Development
OU	operable unit
PCB	polychlorinated biphenyl
PWR	pressurized-water reactor
QA	quality assurance
R&D	research and development
RAPIC	Remedial Action Program Information Center
RCRA	Resource Conservation and Recovery Act
RDDT&E	research, development, demonstration, testing, and evaluation
RI	remedial investigation
RI/FS	remedial investigation/feasibility study
ROD	Record of Decision
SARA	Superfund Amendments and Reauthorization Act of 1986
SITE	Superfund Innovative Technology Evaluation
TRU	transuranic
TSCA	Toxic Substances Control Act
UMTRA	Uranium Mill Tailings Remedial Action
UMTRCA	Uranium Mill Tailings Radiation Control Act
VOC	volatile organic compound
WAG	waste area grouping



## ABSTRACT

This bibliography contains 3638 citations with abstracts of documents relevant to environmental restoration, nuclear facility decontamination and decommissioning (D&D), uranium mill tailings management, and site remedial actions. This report is the eighteenth in a series of bibliographies prepared annually for the U.S. Department of Energy (DOE) Office of Environmental Restoration. Citations to foreign and domestic literature of all types—technical reports, progress reports, journal articles, symposia proceedings, theses, books, patents, legislation, and research project descriptions—have been included in Part 1 of the report. The bibliography contains scientific, technical, financial, and regulatory information that pertains to DOE environmental restoration programs. The citations are separated by topic into 16 sections, including (1) DOE Environmental Restoration Program; (2) DOE D&D Program; (3) Nuclear Facilities Decommissioning; (4) DOE Formerly Utilized Sites Remedial Action Program; (5) NORM-Contaminated Site Restoration; (6) DOE Uranium Mill Tailings Remedial Action Project; (7) Uranium Mill Tailings Management; (8) DOE Site-Wide Remedial Actions; (9) DOE Onsite Remedial Action Projects; (10) Contaminated Site Remedial Actions; (11) DOE Underground Storage Tank Remediation; (12) DOE Technology Development, Demonstration, and Evaluation; (13) Soil Remediation; (14) Groundwater Remediation; (15) Environmental Measurements, Analysis, and Decision-Making; and (16) Environmental Management Issues. Within the 16 sections, the citations are sorted by geographic location. If a geographic location is not specified, the citations are sorted according to the document title. In Part 2 of the report, indexes are provided for author, author affiliation, selected title phrase, selected title word, publication description, geographic location, and keyword.

This bibliography is published annually by the Remedial Action Program Information Center (RAPIC), which selects, analyzes, and disseminates information on environmental restoration, D&D, and site remedial actions. RAPIC staff and resources are available to meet a variety of information needs. Contact the center at (423) 576-6500 or by e-mail at [rapic@ornl.gov](mailto:rapic@ornl.gov). For updates to this publication, please access RAPIC's site on the web at <http://www.em.doe.gov/rapic>.



## INTRODUCTION

This bibliography is published by the Remedial Action Program Information Center (RAPIC). RAPIC is funded by the U.S. Department of Energy (DOE) Office of Environmental Restoration, Program Integration Division, to provide technical information support to DOE Environmental Restoration Program activities.

RAPIC serves as a central clearinghouse for information, derived from both foreign and domestic publications, that concerns the scientific, technical, regulatory, and socioeconomic aspects of environmental restoration at contaminated facilities and sites. Environmental restoration encompasses activities such as the following:

- performing characterization surveys of contaminated facilities or sites,
- conducting ongoing security and surveillance programs,
- performing preventive maintenance actions to ensure the containment of contamination until permanent facility disposition,
- assessing the environmental and engineering aspects of proposed remediation alternatives,
- drafting detailed project plans and procedures for remediation,
- performing decommissioning and remedial actions to make facilities or sites available for restricted or unrestricted use,
- developing technologies, and
- complying with applicable laws and regulations.

The 3638 citations with abstracts in this report constitute the 18th annual publication with the same title and topic coverage. The contents of all 18 volumes of this bibliography are stored in an on-line database that undergoes frequent updating. The bibliography is intended for use as a "first-line" reference tool. RAPIC can perform on-line searches of the entire database to identify recent additions to the database or to conduct a comprehensive search.

## TOPIC COVERAGE

The major topics covered by this bibliography are presented in 16 sections: (1) DOE Environmental Restoration Program; (2) DOE Decontamination and Decommissioning (D&D) Program; (3) Nuclear Facilities Decommissioning; (4) DOE Formerly Utilized Sites Remedial Action Program (FUSRAP); (5) NORM-Contaminated Site Restoration; (6) DOE Uranium Mill Tailings Remedial Action (UMTRA) Project; (7) Uranium Mill Tailings Management; (8) DOE Site-Wide Remedial Actions; (9) DOE Onsite Remedial Action Projects; (10) Contaminated Site Remedial Actions; (11) DOE Underground Storage Tank Remediation; (12) DOE Technology Development, Demonstration, and Evaluation; (13) Soil Remediation; (14) Groundwater Remediation; (15) Environmental Measurements, Analysis, and Decision-Making; and

(16) Environmental Management Issues. The topic coverage of each section is explained in the following pages.

The first section, **DOE Environmental Restoration Program**, cites programmatic planning and management documents prepared by or for the DOE Office of Environmental Restoration. Documents that affect or relate to DOE's environmental restoration effort as a whole are included here.

The **DOE Decontamination and Decommissioning (D&D) Program** section includes citations pertaining to the D&D of buildings and structures located primarily on federal reservations.

The section on **Nuclear Facilities Decommissioning** presents citations relating to D&D at non-DOE nuclear facilities, including those outside the United States.

The **DOE Formerly Utilized Sites Remedial Action Program (FUSRAP)** section cites documents generated by or related to the DOE FUSRAP program. FUSRAP sites were used by the Manhattan Engineer District or by the Atomic Energy Commission from the 1940s through the 1960s for the processing, handling, storage, or shipment of radioactive materials.

The section on **NORM-Contaminated Site Restoration** contains citations of documents about remediation efforts at non-DOE sites contaminated with naturally occurring radioactive materials (NORM).

The **DOE Uranium Mill Tailings Remedial Action (UMTRA) Project** section cites information pertinent to UMTRA project management or to the 24 UMTRA sites, located primarily in the western United States. These sites are inactive uranium mill sites that were operated under government contract.

The section on **Uranium Mill Tailings Management** includes citations to foreign and domestic mill tailings documents and basic and applied mill tailings research reports that are not part of UMTRA.

The section on **DOE Site-Wide Remedial Actions** is composed of citations on remediation issues that affect an individual DOE facility or the entire DOE reservation.

The section on **DOE Onsite Remedial Action Projects** contains citations to documents about cleanup activities at operable units, waste area groupings, or other specific sites within a DOE facility or environmental contamination originating from a DOE facility.

The section on **Contaminated Site Remedial Actions** presents citations relating to remedial actions on environmental areas that are not a part of DOE's Environmental Restoration Program. These sites may include other governmental agencies, private sector, or countries other than the United States.

The **DOE Underground Storage Tank Remediation** section contains citations to documents relevant to the characterization and remediation of the underground storage tanks and tank contents awaiting final disposition at DOE sites.

The section on **DOE Technology Development, Demonstration, and Evaluation** cites documents originating from or directly relating to DOE Office of Technology Development

programs for research and development, demonstration, testing, and evaluation of new technologies for environmental restoration and waste management.

The **Soil Remediation** section consists of citations to studies relating to characterizing, monitoring, and remediating soil contaminated with radioactive or hazardous materials.

The **Groundwater Remediation** section consists of citations to studies relating to characterizing, monitoring, and remediating groundwater contaminated with radioactive or hazardous materials.

The section titled **Environmental Measurements, Analysis, and Decision-Making** includes citations to documents on instrumentation for measuring radioactive or hazardous materials; sampling protocols; methods for data collection, validation, and analysis; quality assurance; risk assessment; and models for evaluating environmental restoration projects.

The final section, **Environmental Management Issues**, contains citations to requirements or regulatory drivers affecting DOE's remediation activities. Also included is information relevant to the conduct of program activities.

## INDEXES

The indexes found in Part 2 of this report are color-coded to assist the user in identifying documents of interest. The numbers that appear after each listing in the indexes are the sequential numbers of the individual citations in Part 1A, Sections 1 through 9, and Part 1B, Section 10 through 16. The indexes appear as follows:

- *Pink pages*—the **Author Index** lists all authors for each citation
- *Blue pages*—the **Author Affiliation Index** is an alphabetical listing of the institutions with which the authors are affiliated
- *Salmon pages*—the **Selected Title Phrase Index** is an index of selected significant phrases in document titles
- *Yellow pages*—the **Selected Title Word Index** provides an index of selected significant words in document titles
- *Green pages*—the **Publication Description Index** alphabetically lists all journal citations, conference descriptions, report numbers, or other unique document descriptions that identify the publication. The title of the document is listed below each entry in the publication description index
- *Gold pages*—the **Geographic Location Index** provides an alphabetical listing of the geographic descriptions of sites referenced in the bibliography; these are divided into domestic sites and foreign sites
- *Buff pages*—the **Keyword Index** is an index of descriptors selected from a controlled thesaurus to characterize specific concepts in each record.



## CITATION FORM

Each citation in this volume of the bibliography is numbered sequentially. Within each section, the citations are grouped by geographic location. For example, in the section on DOE Site-Wide Remedial Actions, all citations concerning the Hanford Site are grouped together. Within these geographic groupings, the citations are listed alphabetically by the document title. Citations that do not refer to a specific geographic location appear at the end of each section and are sorted by the title.

Under the citation number, the document title appears in **bold print**. Author(s) of the document, are listed next, followed by the corporate affiliation(s) of the author(s). Finally, publication description, publication date, and the abstract are listed. A sample citation with abstract is shown below.

### SAMPLE CITATION WITH ABSTRACT

This is an example of the format for the descriptive fields used in this bibliography:

- |   |                              |
|---|------------------------------|
| 1 — Page Number   | 5 — Document Title           |
| 2 — Section Heading                                       | 6 — Author(s)                |
| 3 — Citation Number<br>(sequential number in this volume) | 7 — Corporate Affiliation(s) |
| 4 — Volume number and database record<br>number           | 8 — Publication Description  |
|   | 9 — Publication Date         |
|   | 10 — Abstract                |

<sup>1</sup>131

<sup>2</sup> **DOE Onsite Remedial Action Projects**

<sup>3</sup>191

<sup>4</sup> V18/020665

<sup>5</sup> **Summary of Hydrogeologic Controls on Groundwater Flow at the Nevada Test Site, Nye County, Nevada**

<sup>6</sup>Laczniaak, F.J.; Cole, J.C.; Sawyer, D.A.; Trudeau, D.A.

<sup>7</sup>U.S. Geological Survey, Carson City, NV

<sup>8</sup>DOE/NV/11040-T1; 128 pp. <sup>9</sup>(1996)

<sup>10</sup>The underground testing of nuclear devices has generated substantial volumes of radioactive and other chemical contaminants below ground at the Nevada Test Site (NTS). Many of the more radioactive contaminants are highly toxic and are known to persist in the environment for thousands of years. In response to concerns about potential health hazards, the U.S. Department of Energy, under its Environmental Restoration Program, has made NTS the subject of a long-term investigation. Efforts will assess whether byproducts of underground testing pose a potential hazard to the health and safety of the public and, if necessary, will evaluate and implement steps to remediate any of the identified dangers. Unique to the hydrology of NTS are the effects of the underground testing, which severely alter local rock characteristics and affect hydrologic conditions throughout the region. This report summarizes what is known and inferred about groundwater flow throughout the NTS region. The report identifies and updates what is known about some of the major controls on groundwater flow, highlights some of the uncertainties in the current understanding, and prioritizes some of the technical needs as related to the Environmental Restoration Program.

## SCIENTIFIC NOTATIONS AND ABBREVIATIONS

Below is an explanation of scientific notations and abbreviations used in the text of this bibliography:

1. X sub t means  $X_t$  or X subscript t.
2. For chemical compounds and elements, NaIO3 means  $\text{NaIO}_3$ .
3.  $10(E+3)$  or  $X(E-3)$  (E denoting exponent) means  $10^3$  or  $X^{-3}$ , respectively.
4. Cubic or square dimensions of measurements are shown as 6 cu cm (for 6 cubic centimeters) or 3 sq km (for 3 square kilometers).
5. The following prefixes have been used to indicate multiples or subdivisions of units of measurement:

a	atto	$(10^{-18})$	da	deca	$(10^1)$
f	femto	$(10^{-15})$	h	hecto	$(10^2)$
p	pico	$(10^{-12})$	k	kilo	$(10^3)$
n	nano	$(10^{-9})$	M	mega	$(10^6)$
u	micro	$(10^{-6})$	G	giga	$(10^9)$
m	milli	$(10^{-3})$	T	tera	$(10^{12})$
c	centi	$(10^{-2})$	P	peta	$(10^{15})$
d	deci	$(10^{-1})$	E	exa	$(10^{18})$

6. The following abbreviations have been used for unit measurements:

a	acre	l	liter
A	ampere	lb	pound
Bq	becquerel (activity of source)	m	meter
C	Celsius	MeV	megaelectronvolt
cd	current density	min	minute
Ci	curie	mol	mole (amount)
cpm	counts per minute	N	newton
cps	counts per second	oz	ounce
deg	degree	Pa	Pascal
dpm	disintegrations per minute	ppb	parts per billion
dps	disintegrations per second	ppm	parts per million
F	Fahrenheit	R	roentgen (gamma exposure)
ft	feet	rad	radiation absorbed dose
g	gram	rem	roentgen-equivalent-man
gal	gallon	s	second
Gy	gray (absorbed radiation dose)	Sv	sievert (dose equivalent)
ha	hectare	t	tonne (mass)
hr	hour	V	volt
Hz	hertz	W	watt
in.	inch	W(e)	watt (electrical)
J	joule	W(t)	watt (thermal)
K	Kelvin	yd	yard
keV	kiloelectron volt	yr	year

## SERVICES

Copies of most documents cited in this bibliography can be obtained through either the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161, or the Office of Scientific and Technical Information, U.S. Department of Energy, P.O. Box 62, Oak Ridge, Tennessee 37831-0062.

RAPIC offers information support to researchers involved in many fields of environmental restoration. Services that are free of charge to DOE Environmental Restoration staff and their subcontractors include providing information from RAPIC resources, searching computerized databases, and assisting in locating and obtaining copies of documents cited in the RAPIC bibliographies. All inquiries about these and other RAPIC services should be addressed to:

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- City of Newport News, Newport News, VA 3064
- Clark Engineering, New Lebanon, NY 2466
- Clarkson University, Department of Civil and Environmental Engineering, Potsdam, NY 2205
- Clayton Environmental Consultants, Inc., Novi, MI 3023
- Clayton Environmental Consultants, Limited, Berkhamsted, United Kingdom 1918
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- Colorado Public Service Company, Platteville, CO 470
- Colorado School of Mines, Department of Chemistry and Geochemistry, Golden, CO 2282
- Colorado School of Mines, Department of Metallurgical and Materials Engineering, Golden, CO 2835
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- Colorado School of Mines, Golden, CO 1262, 1838
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- Colorado State University, Center for Ecological Risk Assessment and Management, Fort Collins, CO 3346
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- Columbia Energy & Environmental Services, Inc., Richland, WA 1710
- ComEd, Dresden Nuclear Power Station, Morris, IL 472
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- Lockheed Martin Environmental Systems and Technologies Company, Las Vegas, NV 1423
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- Lockheed Martin Specialty Components, Inc., Largo, FL 1168
- Lockheed Martin Utility Services, Piketon, OH 320
- Lockwood Greene Engineers, Inc., New York, NY 2669
- Lockwood Greene Technologies, Oak Ridge, TN 529
- Lodde Enterprises, Mount Joy, PA 516
- Logistics Management Institute, McLean, VA 34
- Lombardia Risorse, Milan, Italy 1769
- Long Island Power Authority, Mount Sinai, NY 158
- Long Island Research Institute, Nesconset, NY 2888
- Loral Environmental Systems, Houston, TX 3156
- Los Alamos National Laboratory, Chemical and Laser Sciences Division, Los Alamos, NM 2400, 3304
- Los Alamos National Laboratory, Chemical Science and Technology Division, Los Alamos, NM 1883, 2542, 2858, 3419, 3459
- Los Alamos National Laboratory, Environmental Assesments and Resource Evaluations Group, Los Alamos, NM 1222
- Los Alamos National Laboratory, Environmental Science Group, Los Alamos, NM 1736
- Los Alamos National Laboratory, Industrial Partnership Office, Los Alamos, NM 3607
- Los Alamos National Laboratory, Inorganic Trace Analysis, Los Alamos, NM 3391
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- Los Alamos National Laboratory, Measurement Technologies Group, Engineering Sciences and Applications Division, Los Alamos, NM 3481
- Los Alamos National Laboratory, Technology and Safety Division, Energy and Environmental Analysis Group, Los Alamos, NM 2130, 2833
- Los Alamos Technical Associates, Albuquerque, NM 399

- Los Alamos Technical Associates, Inc., Albuquerque, NM 3191
- Los Alamos Technical Associates, Inc., Los Alamos, NM 246
- Louisiana Department of Environmental Quality, Baton Rouge, LA 3166
- Louisiana State University, Baton Rouge, LA 2473, 2616
- Louisiana State University, Department of Chemical Engineering, Baton Rouge, LA 2756, 2820
- Louisiana State University, Department of Chemistry, Baton Rouge, LA 2603
- Louisiana State University, Department of Civil and Environmental Engineering, Baton Rouge, LA 2603
- Louisiana State University, Department of Civil and Environmental Engineering, Hazardous Substance Research Center S&SW, Baton Rouge, LA 2692
- Louisiana State University, Institute of Environmental Studies, Baton Rouge, LA 1784, 2692
- Louisiana-Pacific Corporation, Samoa, CA 3129, 3130
- Loureiro Engineering Associates, Plainville, CT 2921
- Low-Level Radioactive Waste Management Office, Gloucester, Ontario, Canada 2037
- Lowney Associates, Mountain View, CA 2894
- Lumonics Corporation, Livonia, MI 363
- M.A.T.S. Inc., Atlanta, GA 3312
- M.V. Lomonosov Moscow State University, Moscow, Russian Federation 719
- M4 Environmental Management, Inc., Oak Ridge, TN 412, 413
- MAC Technical Services Company, Germantown, MD 3404
- Machine Kinetics Corporation, Knoxville, TN 2323
- MACTEC Environmental Remediation Restoration Services LLC, Grand Junction, CO 1318
- MACTEC, Ashtabula, OH 3393
- MACTEC, Oak Ridge, TN 227, 2082, 2086, 3462, 3522
- Maeda Corporation, Tokyo, Japan 938
- Magnox Electric plc, Berkeley, Gloucestershire, United Kingdom 747
- MaK Systemgesellschaft mbH, Kiel, Germany 781
- Malcolm Pirnie, Inc., Buffalo, NY 3150
- Malcolm Pirnie, Inc., Newport News, VA 3064
- Manchester University, Manchester, United Kingdom 661
- Manitoba Environment, Winnipeg, Manitoba, Canada 3524
- ManTech Environmental Research Services Corporation, Ada, OK 2960
- Manufacturing Sciences Corporation, Denver, CO 103, 104
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- Manufacturing Sciences Corporation, Oak Ridge, TN 674, 690, 817, 898
- Manufacturing Sciences Corporation, Woodland, WA 333, 807
- MAP Productions, Inc., Tyler, TX 2887
- Marathon Oil Company 3274
- Martin Marietta Energy Systems, Inc., Environmental Restoration Program, Oak Ridge, TN 1295
- Martin Marietta Energy Systems, Inc., Hazardous Waste Remedial Action Program, Oak Ridge, TN 342
- Martin Marietta Energy Systems, Inc., Hazardous Waste Remedial Actions Program, Environmental Restoration and Waste Management Programs, Oak Ridge, TN 1392
- Martin Marietta Energy Systems, Inc., Oak Ridge, TN 2492
- Martin Marietta Energy Systems, Inc., Office of Technology Transfer, Oak Ridge, TN 2334
- Mason and Hanger-Silas Mason Company, Inc., Amarillo, TX 1317
- Massachusetts Department of Environmental Protection, Boston, MA 2324
- Massachusetts Institute of Technology, Department of Mechanical Engineering, Cambridge, MA 2596
- Massachusetts Institute of Technology, Lincoln Laboratory, Lexington, MA 3282
- Massachusetts Institute of Technology, Nuclear Reactor Laboratory, Cambridge, MA 725
- Massachusetts Institute of Technology, Plasma Fusion Center, Cambridge, MA 2359

- Maurer Engineering, Inc., Houston, TX 2280
- Maverick Geophysical Services, Golden, CO 3449
- Maxim Technologies, Inc., Billings, MT 2956
- Maxim Technologies, Inc., Helena/Missoula, MT 3247
- Maxymillian Technologies, Inc., Boston, MA 2580
- MB Geosphere Limited, Ismaning, Germany 2654
- McClintock, Weston, Benschoff, Rochefort, Rubalcava, & MacCuish, Los Angeles, CA 3492
- McCulloch Environmental Equipment Sales, Vacaville, CA 2957
- McGill University, Department of Mining and Metallurgical Engineering, Montreal, Quebec, Canada 2007
- McGill University, Geotechnical Research Centre, Montreal, Quebec, Canada 2487, 2557, 2648
- McGill University, Montreal, Quebec, Canada 2647
- McLaren/Hart Environmental Engineering, Alameda, CA 3589
- McLaren/Hart Environmental Engineering, Irvine, CA 2624
- Mecsek Ore Mining Company, Pecs, Hungary 1128, 1996
- Mecsekuran Limited, Pecs, Hungary 1095
- MEGA - Institute for Research and Development, Straz pod Ralskem, Czech Republic 1106, 1123, 1140
- MeltTran, Inc., Idaho Falls, ID 1943
- Memorial University of Newfoundland, Department of Earth Sciences and Centre for Earth Resources Research, St. John's, Newfoundland, Canada 3455
- Meta, Inc., Nevada City, CA 871
- Metallurgical and Biological Extraction Systems, Inc., Tucson, AZ 2509
- Metallurgical Engineering, Mining and Waste Management, Arvada, CO 2819
- Michigan Department of Natural Resources, Lansing, MI 3523
- Michigan State University, Center for Microbial Ecology, East Lansing, MI 3006
- Michigan State University, East Lansing, MI 3155, 3199
- Micro Craft Technology, Arnold Air Force Base, TN 2231
- Microsensor Systems, Inc., Bowling Green, KY 3467
- Middle Eastern Regional Radioisotope Centre for the Arab Countries, Cairo, Egypt 887
- Midwest Technical, Inc., Oak Ridge, TN 2372
- Minenco Pty. Limited, Bioremediation Services, North Sydney, Australia 1775
- Ministerstvo Ukrainy po Delam Zashchity Naseleniya ot Posledstvij Avarii na Chernobyl'skoj AEhS, Kiev, Ukraine 526, 543, 739, 1877, 1959, 2028, 2928
- Ministerstvo Zdravookhraneniya i Meditsinskoj Promyshlennosti, Moscow, Russian Federation 855
- Ministry for Emergencies and Protection of the Population, Minsk, Belarus 1801
- Ministry for Environmental Protection of Ukraine, Kiev, Ukraine 1865, 2032
- Ministry of Atomic Energy of the Russian Federation, Moscow, Russian Federation 1919
- Ministry of Environment, Den Haag, Netherlands 3406
- Ministry of Environmental Affairs, Munich, Germany 956
- Ministry of Nuclear Industry, Institute of Radiation Protection, Taiyuan, China 534, 693, 884, 932, 2019
- Ministry of Russian Federation for Atomic Energy, Moscow, Russian Federation 3509
- Ministry of the Environment, Prague, Czech Republic 1133
- Ministry of Transport, Niigata, Japan 1897
- Minnesota Mining and Manufacturing Company, St. Paul, MN 2970
- Minnesota Pollution Control Agency, St. Paul, MN 1874, 3141, 3305
- Mississippi State University, Diagnostic Instrumentation and Analysis Laboratory, Mississippi State, MS 2239
- MITRE Corporation, McLean, VA 3110
- Mitsubishi Electric Corporation, Tokyo, Japan 911
- Mitsubishi Heavy Industries Limited, Yokohama, Japan 699, 700
- Mitubishi Materials Corporation, Nuclear Engineering Center, Tokyo, Japan 698
- MK-Ferguson Company, St. Charles, MO 1195, 1415, 1416, 1417

- MK-Ferguson of Oak Ridge Company, Oak Ridge, TN 1588
- Mobil Exploration & Producing US Inc., Houston, TX 2555, 2798
- Mobil Oil Corporation, Fairfax, VA 3258, 3313
- Mobil Oil Corporation, New York, NY 3274
- MODAR, Inc., Natick, MA 2347
- Molten Metal Technology, Inc., Waltham, MA 2378
- Monsanto Company, Environmental Sciences Center, St. Louis, MO 2841
- Monsanto Company, St. Louis, MO 2526, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2611, 3009, 3058, 3059, 3060
- Monsanto Research Corporation, Mound, Miamisburg, OH 1245
- Montana State University, Environmental Statistics Group, Bozeman, MT 3563
- Montana Tech of the University of Montana, Butte, MT 302
- Montana Tech of the University of Montana, Department of Metallurgical Engineering, Butte, MT 265, 672
- Montgomery Watson Americas, Inc., Madison, WI 2932, 3112
- Montgomery Watson Americas, Inc., Milwaukee, WI 3112
- Montgomery Watson, Novi, MI 1881
- Morehouse College, Atlanta, GA 2742
- Morikawa Industries Corporation, Koshoku City, Japan 671
- Morrison Knudsen Corporation, San Francisco, CA 1047
- Morrison Knudsen Environmental Services, Denver, CO 1393
- Morrison Knudsen Environmental Services, San Francisco, CA 56
- Moscow Academy of Chemical Engineering, Moscow, Russian Federation 2372
- Mound Laser and Photonics Center, Miamisburg, OH 801
- MSE, Inc., Butte, MT 265, 333, 1941
- Municipality of Hultsfred, Hultsfred, Sweden 1991
- MVA, Inc., Norcross, GA 2571, 2736
- Narora Atomic Power Station, Narora, India 751
- National Aeronautics and Space Administration, Ames Research Center, Photonics Group, Moffett Field, CA 2398
- National Agency for Radioactive Waste and Enriched Fissile Materials (NIRAS/ONDRAF), Brussels, Belgium 614, 624, 811, 846
- National Center for Nuclear Safety and Radiation Control, Atomic Energy Authority, Cairo, Egypt 887
- National Defense Center for Environmental Excellence, Johnstown, PA 2283
- National Environmental Technologies, Inc., Charlotte, NC 2910
- National Environmental Testing, Santa Rosa, CA 3433
- National Governors' Association, Washington, DC 1966
- National Ground Water Association, Department of Natural Resources and Environmental Control, Dublin, OH 3102
- National Institute for Environmental Renewal, Harrisburg, PA 2355
- National Institute of Environmental Health Sciences, Research Triangle Park, NC 2865
- National Institute of Public Health and Environmental Protection, Laboratory for Waste Materials and Emissions, Bilthoven, Netherlands 2897
- National Institute of Standards and Technology, Chemical Science and Technology Laboratory, Gaithersburg, MD 2478
- National Institute of Standards and Technology, Gaithersburg, MD 1952, 2253
- National Nuclear Corporation Limited, Knutsford, United Kingdom 571
- National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Seattle, WA 1781
- National Radiological Protection Board, Chilton, United Kingdom 1921
- National Renewable Energy Laboratory, Golden, CO 3222
- National Research Center for Coal and Energy, Morgantown, WV 2232
- National Research Council, Washington, DC 2250
- National Research Institute for Radiobiology and Radiohygiene, Budapest, Hungary 1095, 1128, 1996

- National Risk Management Research Laboratory, Ada, OK 3125
- National Risk Management Research Laboratory, Subsurface Protection and Remediation Division, Ada, OK 2958
- National Sun Yat-Sen University, Institute of Environmental Engineering, Kaohsiung, Taiwan 2913
- National Waste Management Corporation, Farragut, TN 901
- National Water Research Institute, Canada Centre for Inland Waters, Burlington, Ontario, Canada 3321
- Nationwide Radiological Study, Majuro, Midway Islands 1374
- Nauchno-Proizvodstvennoe Ob'edinenie Pripyat, Chernobyl, Ukraine 543, 2928
- Naukovo-Tekhnichnij Tsentz z dezaktivatsiyi ta kompleksnogo povodzhennya z radyoaktivnimi vyidkhodami, Zhovtyi Vodi, Ukraine 543
- Neptune and Company, Inc., Los Alamos, NM 1498, 3498, 3529, 3609
- NERAC, Inc., Tolland, CT 845, 1986, 1989, 2556, 2829, 3248, 3289
- NES, Inc., Danbury, CT 143, 316
- Netherlands Energy Research Foundation (ECN), Petten, Netherlands 631
- NeuTek, Darnestown, MD 327
- Nevada Division of Environmental Protection, Carson City, NV 2957
- Nevada University, Water Resources Center, Las Vegas, NV 1394, 1433, 1435, 1461, 1462, 3097
- New Energy and Industrial Technology Development Organization, Tokyo, Japan 1951
- New England Geoscience and Geophysics, Inc., Grantham, NH 3325
- New Hampshire Public Utilities Commission, Concord, NH 943
- New Jersey Department of Environmental Protection, Trenton, NJ 2539, 2822, 3273
- New Jersey Institute of Technology, Department of Chemical Engineering, Newark, NJ 2750
- New Jersey Institute of Technology, Department of Civil and Environmental Engineering, Newark, NJ 2653, 2711
- New Jersey Institute of Technology, Hazardous Substance Management Research Center, Newark, NJ 2712
- New Jersey Institute of Technology, Newark, NJ 2710, 2795, 2822
- New Mexico Energy, Minerals and Natural Resources Department, Santa Fe, NM 2238
- New Mexico Institute of Mining and Technology, Socorro, NM 2749
- New Mexico State University, Department of Mechanical Engineering, Las Cruces, NM 2175, 2445
- New Mexico State University, Las Cruces, NM 1454, 2051, 2757, 2826
- New Mexico University, Department of Civil Engineering, Albuquerque, NM 3173
- New Mexico University, Laboratory of Microbial Chemistry, Albuquerque, NM 3173
- New York State Department of Health, Albany, NY 1000
- New York State Department of Health, Bureau of Environmental Radiation Protection, Albany, NY 316
- New York State Department of Health, Bureau of Radiation, Albany, NY 2052
- New York State Energy Research and Development Authority, Albany, NY 2040
- New York State Energy Research and Development Authority, West Valley, NY 1475
- Newlandex Corporation, Ventura, CA 2541
- Nez Perce Tribe, Environmental Restoration and Waste Management, Lapwai, ID 3582
- NGK Insulators Limited, Nagoya, Japan 670
- NIS Ingenieurgesellschaft mbH, Hanau, Germany 742, 965
- Noell GmbH, Wuerzburg, Germany 546, 632, 742
- Nordisk Kernesikkerhedsforskning, Roskilde, Denmark 928, 1837
- North Carolina Agricultural and Technical State University, Greensboro, NC 2390
- North Dakota University, Energy and Environmental Research Center, Grand Forks, ND 361, 362, 2189, 2303, 2643, 3539
- Northeast Research Institute LLC, Lakewood, CO 2570, 3449
- Northeastern University, Center for Electromagnetics

- Research, Boston, MA 2300
- Northern States Power Company, Minneapolis, MN 758
- Northrop Grumman Corporation, Electronic Sensors and Systems Division, Pittsburgh, PA 2169
- Novacor Research and Technology Corporation, Calgary, Alberta, Canada 2504
- NRaD, San Diego, CA 3366
- NRCN, Beersheva, Israel 3448
- Nuclear Consulting Services, Inc., Columbus, OH 2458
- Nuclear Electric plc, Barnwood, United Kingdom 563, 618
- Nuclear Energy Institute, Washington, DC 808, 813, 960
- Nuclear Environment Management Center, Korea Atomic Energy Research Institute, Taejon, Korea 541
- Nuclear Fuel Services, Inc., Erwin, TN 548, 921, 1754
- Nuclear Liabilities Management Company Limited, Manchester, United Kingdom 812, 814
- Nuclear Power Engineering Corporation, Tokyo, Japan 972, 973
- Nuclear Power Plant Research Institute, Trnava, Slovakia 1752, 1866, 1935, 1938, 2034, 2450
- Nuclear Power Plant, Kozloduy, Bulgaria 1127, 1143, 1144
- Nuclear Power Plants Bohunice, Bohunice, Slovak Republic 828
- Nuclear Safety Research Association, Tokyo, Japan 637, 728
- NUKEM GmbH, Alzenau, Germany 573, 621, 626, 635, 654, 655
- NUKEM Nuclear Technologies, Columbia, SC 585, 635, 654, 804, 2872, 2873
- Numatec Hanford Corporation, Richland, WA 2107
- O'Brien & Gere Engineers, Inc., Oak Ridge, TN 431
- O'Brien & Gere Engineers, Inc., Syracuse, NY 419, 420, 431, 622, 946, 1839, 1920
- O'Brien & Gere Technical Services, Inc., Syracuse, NY 420
- O'Sullivan Corporation, Winchester, VA 2732
- Oak Ridge Associated Universities, Oak Ridge, TN 2516
- Oak Ridge Institute for Science and Education, Aiken, SC 2397
- Oak Ridge Institute for Science and Education, Environmental Survey and Site Assessment Program, Oak Ridge, TN 3596
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- Oak Ridge National Laboratory, Chemical and Analytical Sciences Division, Oak Ridge, TN 2077, 3453
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- Oak Ridge National Laboratory, Environmental Restoration Division, Oak Ridge, TN 205, 213, 1287, 3383
- Oak Ridge National Laboratory, Environmental Restoration Risk Assessment Program, Oak Ridge, TN 3439
- Oak Ridge National Laboratory, Environmental Sciences Division, Grand Junction, CO 3207, 3237, 3373, 3429
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- Oak Ridge National Laboratory, Germantown, MD 271, 370, 3426
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- Oak Ridge National Laboratory, Health and Safety Research Division, Oak Ridge, TN 2639
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- Oak Ridge National Laboratory, Office of Radiation Protection, Oak Ridge, TN 209**
- Oak Ridge National Laboratory, Risk Assessment Program, Oak Ridge, TN 3417**
- Oak Ridge National Laboratory, Robotics and Process Systems Division, Oak Ridge, TN 209**
- Oak Ridge Y-12 Plant, Environmental Restoration Waste Management Division, Oak Ridge, TN 1606**
- Oak Ridge Y-12 Plant, Oak Ridge, TN 230, 1291, 1309, 1310, 1311, 1312, 1313, 1314, 1568, 1570, 1571, 1572, 1581, 1583, 1584, 1585, 1586, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1609, 1610, 1611, 1612, 1613, 1616, 1617, 1618, 1620, 2090, 2091, 2092, 2093, 2094**
- Oak Technologies, Washington Grove, MD 335, 345**
- Occidental Chemical Corporation, Grand Island, NY 2793, 3095**
- Occidental Chemical Corporation, Houston, TX 1770**
- Occidental Chemical Corporation, Niagara Falls, NY 1770**
- Oceaneering International, Inc., Aberdeen, Scotland, United Kingdom 2168**
- Oceaneering International, Inc., Upper Marlboro, MD 2389**
- Oceaneering Space Systems, Houston, TX 263, 2168**
- Oesterreichisches Forschungszentrum Seibersdorf GmbH, Institute fuer Strahlenschutz, Seibersdorf, Austria 2701**
- Ogden Environmental and Energy Services Company, Oak Ridge, TN 39, 1545, 1546**
- Ogden Environmental and Energy Services Company, San Francisco, CA 1820**
- Ogden Professional Services Corporation, Camarillo, CA 2662**
- OHM Remediation Services Corporation, Columbia, SC 535**
- OHM Remediation Services Corporation, Findlay, OH 2016, 2053, 2508, 2575, 2878, 3010**
- OHM Remediation Services Corporation, Hopkinton, MA 2575**
- OHM Remediation Services Corporation, Miamisburg, OH 1188**
- OHM Remediation Services Corporation, Pleasanton, CA 2016, 2947**
- OHM Remediation Services Corporation, Princeton, NJ 3000**
- OHM Remediation Services Corporation, Trenton, NJ 2508**
- Oklahoma State University, Department of Biosystems and Agricultural Engineering, Stillwater, OK 2411**
- Oklahoma State University, Department of Political Science, Stillwater, OK 3387**
- Oklahoma State University, Stillwater, OK 3088, 3229**
- Olympus Environmental, Inc., Billings, MT 2867**
- OMEGAM-Environmental Research Institute, Amsterdam, Netherlands 2001**
- Ontario Ministry of Environment and Energy, Toronto, Ontario, Canada 2774**
- Orange County Health Care Agency, Santa Ana, CA 2816**
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- Oregon Graduate Institute of Science and Technology, Beaverton, OR 576**
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- Organization for Economic Co-Operation and Development (OECD), Nuclear Energy Agency (NEA), External Relations and Public Affairs, Paris, France 606
- Organization for Economic Co-Operation and Development (OECD), Nuclear Energy Agency (NEA), Paris, France 780, 840
- Outreach Technologies, Inc., Broken Arrow, OK 505
- Owens-Corning Corporation, Toledo, OH 1793
- Oxnard Plain Restoration Advisory Board, Oxnard, CA 2211
- P.A. Mayak, Chelyabinsk, Russian Federation 2022
- P.G. Parsons Engineering Science, Inc., Liverpool, NY 2446
- P.S.A. Hydrospeztzgeologiya, Moscow, Russian Federation 2022
- Pace Consultants, Houston, TX 3300
- Pacific Air Forces, Honolulu, HI 2016
- Pacific Environmental Group, Inc., San Jose, CA 3219
- Pacific Northwest Laboratory, Earth and Environmental Sciences Center, Richland, WA 2445
- Pacific Northwest Laboratory, Engineering Technology Center, Richland, WA 2745
- Pacific Northwest Laboratory, Interfacial Geochemistry Group, Richland, WA 3266
- Pacific Northwest Laboratory, Office of Hanford Environment, Richland, WA 1331
- Pacific Northwest Laboratory, Richland, WA 250, 343, 356, 1321, 1336, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1352, 1358, 1364, 1717, 2096, 2100, 2107, 2109, 2121, 2127, 2132, 2149, 2179, 2182, 2192, 2194, 2204, 2242, 2288, 2319, 2331, 2359, 2363, 2369, 2392, 2409, 2457, 2462, 2463, 2554, 2615, 2649, 2696, 2749, 2764, 2864, 2906, 2915, 2967, 2969, 2993, 3041, 3046, 3050, 3080, 3101, 3145, 3158, 3159, 3160, 3202, 3269, 3415, 3464, 3506, 3508, 3515
- Pacific Northwest National Laboratory, Richland, WA 14, 19, 72, 269, 339, 1032, 1149, 1322, 1323, 1382, 1659, 1711, 1919, 1965, 2058, 2059, 2099, 2101, 2103, 2106, 2111, 2120, 2122, 2124, 2138, 2141, 2147, 2153, 2162, 2165, 2172, 2178, 2196, 2199, 2200, 2201, 2206, 2209, 2234, 2265, 2301, 2464, 2525, 2687, 2902, 2945, 2955, 2970, 3109, 3217, 3220, 3265, 3271, 3272, 3347
- Pacific Nuclear, San Jose, CA 458
- Packer Engineering, Inc., Naperville, IL 2195
- Pantex Plant, Amarillo, TX 232, 455
- Pantex Plant, Environmental Restoration, Amarillo, TX 2966
- Parametrix, Inc., Kirkland, WA 3544
- Parker, Milliken, Clark, O'Hara & Samuelian, Los Angeles, CA 3461, 3504
- Parsons Engineering Science, Inc., Atlanta, GA 1537, 2815
- Parsons Engineering Science, Inc., Cleveland, OH 3031, 3090, 3353
- Parsons Engineering Science, Inc., Denver, CO 405, 1779, 2158, 2260, 2614, 2944, 3169, 3296, 3297, 3357
- Parsons Engineering Science, Inc., Idaho Falls, ID 1400
- Parsons Engineering Science, Inc., Oak Ridge, TN 342
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- Parsons Engineering Services, Inc., Richland, WA 235
- Parsons Environmental Services, Inc., Denver, CO 1390, 1391
- Parsons Infrastructure & Technology Group, Inc., Cincinnati, OH 173
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- Patterson Associates, Inc., Chicago, IL 2607
- Paul Williams and Associates, Medina, OH 146, 475, 498, 525, 668, 2246, 2930
- Paxon Polymer Company, Baton Rouge, LA 3166
- PEER Consultants, Oak Ridge, TN 1545, 1546
- Pennsylvania Department of Environmental Protection, Southwest Regional Office, Pittsburgh, PA 1022
- Pennsylvania State University, Department of Civil and Environmental Engineering, University Park, PA 2003
- Pennsylvania State University, Laboratory of Soil Biochemistry, Center for Bioremediation and Detoxification, University Park, PA 2845

- Pennsylvania State University, Mineral Processing Section, University Park, PA 3317
- Pennsylvania State University, University Park, PA 2524, 2721, 3484
- PENTEK, Inc., Coraopolis, PA 517
- Peripheral Vision, Buffalo, NY 2244
- Perkin-Elmer Corporation, Norwalk, CT 2478
- Peruvian Society of Radioprotection (SPR), Lima, Peru 1108
- Peter Gray & Associates, Tulsa, OK 1018, 1020
- Petroleum Society of CIM, Calgary, Alberta, Canada 3250
- Philip Environmental Services Corporation, Columbia, IL 2660
- Phoenix Solutions Company, Minneapolis, MN 2337
- Physikalisch-Technische Bundesanstalt, Braunschweig, Germany 598
- Phytotech, Inc., Monmouth Junction, NJ 2532
- Pintail Systems, Inc., Aurora, CO 2848
- Plasma Technology Corporation, Raleigh, NC 1940, 1942, 2372
- Plasmasil Company Limited, Moscow, Russian Federation 1940
- Plexus Scientific Corporation, Annapolis, MD 1746
- PLG, Inc., Washington, DC 2112
- Polaroid Corporation, Waltham, MA 3325
- Polish Academy of Sciences, Institute of Environmental Engineering, Zabrze, Poland 2992
- Port Authority of New York and New Jersey, New York, NY 2959
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- Purdue University, School of Health Sciences, West Lafayette, IN 461, 940
- Purdue University, West Lafayette, IN 1987
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- R&D Institute for Decontamination and Waste Management, Zovti Vody, Ukraine 2032
- R&D Institute for Industrial Technologies, Zovti Vody, Ukraine 2032
- R. Allan Freeze Engineering, Inc., White Rock, British Columbia, Canada 2661
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- Rijksinstituut voor de Volksgezondheid en Milieuhygiene, Bilthoven, Netherlands 2538
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- RMIT University, Department of Chemical and Metallurgical Engineering, Melbourne, Victoria, Australia 1775
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- U.S. Air Force Institute of Technology, School of Engineering, Wright-Patterson Air Force Base, OH 1833
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- U.S. Army Corps of Engineers, Waterways Experiment Station, Geotechnical Laboratory, Vicksburg, MS 2329
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- U.S. Department of Agriculture, Agricultural Research Service, Greenbelt, MD 2671
- U.S. Department of Agriculture, Agricultural Research Service, Salinity Laboratory, Riverside, CA 3469
- U.S. Department of Agriculture, Agriculture Research Service, Tucson, AZ 3346
- U.S. Department of Defense, Office of the Under Secretary of Defense, Washington, DC 1832
- U.S. Department of Defense, Washington, DC 1802, 1803
- U.S. Department of Energy, Air, Water and Radiation Division, Washington, DC 326, 1025
- U.S. Department of Energy, Albuquerque Operations Office, Albuquerque, NM 29, 266, 1065, 1066, 1076, 1316, 1621, 1622
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- U.S. Department of Energy, Bonneville Power Administration, Portland, OR 1371, 1372
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- Albuquerque, NM 1218, 3335
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- U.S. Department of Energy, Nevada Operations Office, Remote Sensing Laboratory, Las Vegas, NV 3583
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- U.S. Department of Energy, Oak Ridge Operations Office, Environmental Restoration Division, Oak Ridge, TN 285
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- U.S. Department of Energy, Oak Ridge Operations Office, Paducah Site Office, Paducah, KY 1411
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- U.S. Department of Energy, Oakland Operations Office, Oakland, CA 380, 406
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- U.S. Environmental Protection Agency, CERCLA Division, Chicago, IL 2886
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- U.S. Environmental Protection Agency, Environmental Research Laboratory, Gulf Breeze, FL 3070
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- U.S. Environmental Protection Agency, National Risk Management Research Laboratory, Ada, OK 1914, 3111
- U.S. Environmental Protection Agency, National Risk Management Research Laboratory, Cincinnati, OH 2953
- U.S. Environmental Protection Agency, Office of Air and Radiation, Washington, DC 1973
- U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Washington, DC 1365, 1404, 1474, 1484, 1485, 1497, 1499, 1695, 1725, 1726, 1733, 1735, 1737, 1744, 1745, 1751, 1755, 1831, 1969, 1994, 2002, 2026, 2027, 3395, 3413
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- U.S. Environmental Protection Agency, Office of Radiation and Indoor Air, Las Vegas, NV 386
- U.S. Environmental Protection Agency, Office of Radiation and Indoor Air, Washington, DC 1378, 1974
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- U.S. Environmental Protection Agency, Office of Science and Technology, Washington, DC 3394
- U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC 2041, 2544, 3437
- U.S. Environmental Protection Agency, Philadelphia, PA 1761
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- U.S. Navy, EFA Northwest, Silverdale, WA 1889
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- U.S. Navy, Naval Surface Warfare Center, Silver Spring, MD 2655
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- U.S. Navy, Washington, DC 756
- U.S. Nuclear Regulatory Commission, Division of Freedom of Information and Publications Services, Washington, DC 416
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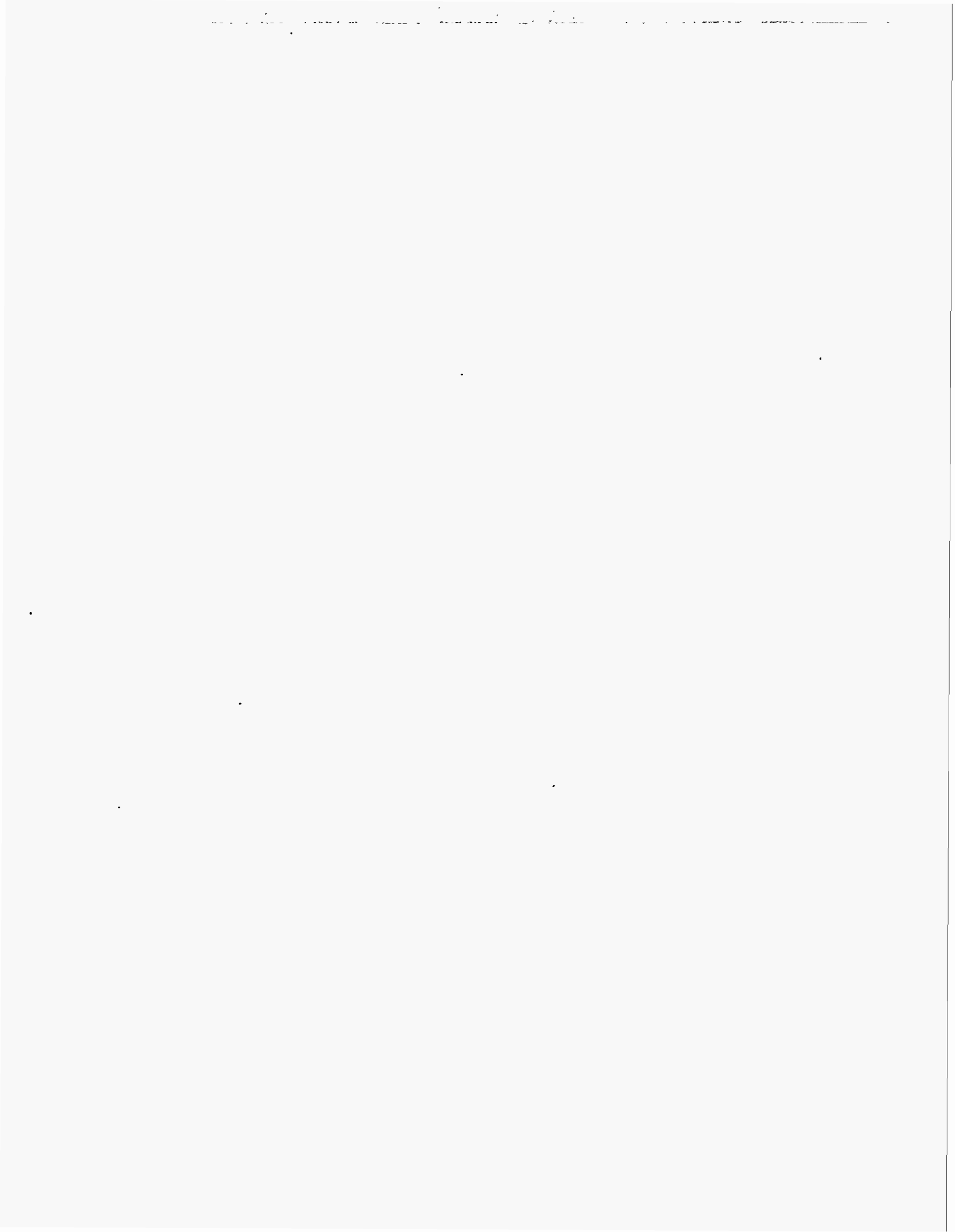
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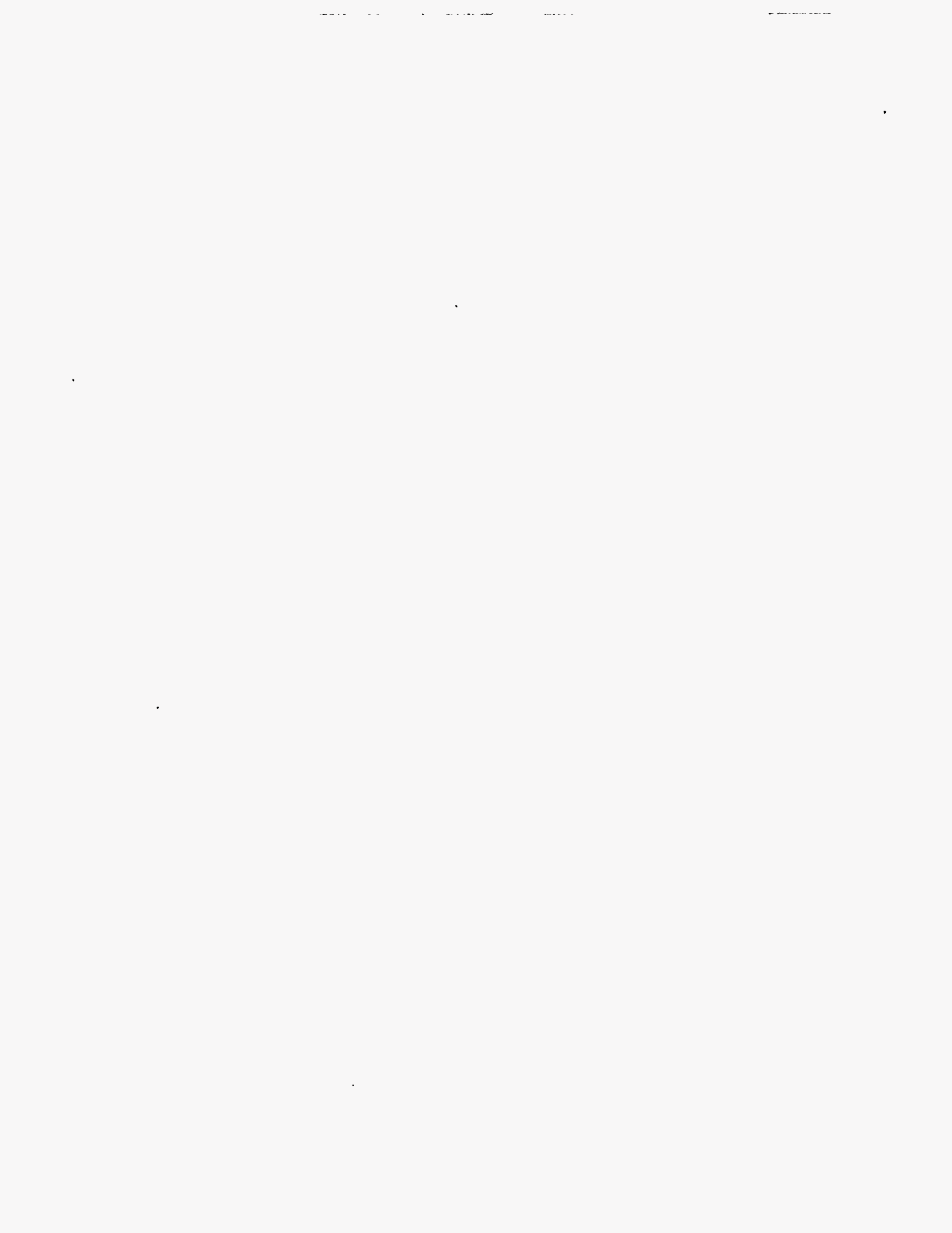
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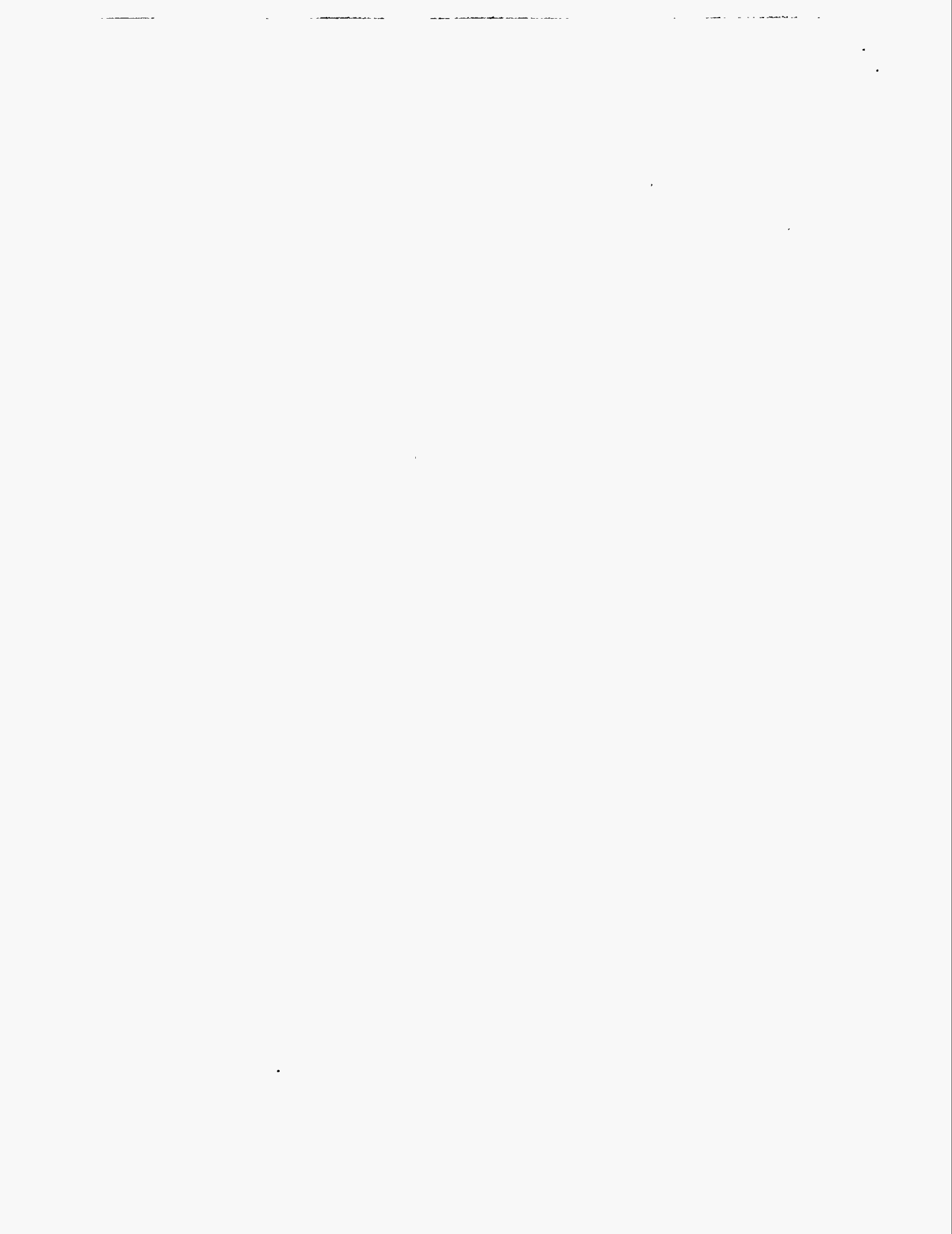
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2780, 3046, 3059, 3072, 3190, 3226, 3317, 3559, 3561, 3566

**ZINC 65** 821

**ZIRCALOY** 820

**ZIRCON** 1019

**ZIRCONIUM** 2161

**ZIRCONIUM ALLOYS** 820

**ZIRCONIUM OXIDES** 669