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<p>This report documents the search strategies and results for available technologies and developers to develop tank waste depth profiling/physical parameter sensors. Sources searched include worldwide research reports, technical papers, journals, private industries, and work at Westinghouse Hanford Company (WHC) at Richland site. Tank waste physical parameters of interest are: abrasiveness, compressive strength, corrosiveness, density, pH, particle size/shape, porosity, radiation, settling velocity, shear strength, shear wave velocity, tensile strength, temperature, viscosity, and viscoelasticity. A list of related articles or sources for each physical parameters is provided.</p>		
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A SUMMARY REPORT ON THE SEARCH FOR
CURRENT TECHNOLOGIES AND DEVELOPERS TO DEVELOP
DEPTH PROFILING/PHYSICAL PARAMETER END EFFECTORS

✓ September 12, 1994

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A SUMMARY REPORT ON THE SEARCH FOR
CURRENT TECHNOLOGIES AND DEVELOPERS TO DEVELOP
DEPTH PROFILING/PHYSICAL PARAMETER END EFFECTORS

Q. H. Nguyen

ABSTRACT

This report documents the search strategies and results for available technologies and developers to develop tank waste depth profiling/physical parameter sensors. This document serves as a reference guide to look for available technologies, existing developments, and associate vendor names and addresses that can be applied in the development of sensors to measure tank waste physical parameters. Sources searched include worldwide research reports, technical papers, journals, private industries, and work at Westinghouse Hanford Company (WHC) at Richland site. Resources used in the search are: Battelle Pacific Northwest Library, Kaiser Engineering Hanford Library, and WHC local network databases. Tank waste physical parameters of interest are: abrasiveness, compressive strength, corrosiveness, density, pH, particle size/shape, porosity, radiation, settling velocity, shear strength, shear wave velocity, tensile strength, temperature, viscosity, and viscoelasticity. A list of related articles or sources for each physical parameters is provided.

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A SUMMARY REPORT ON THE SEARCH FOR
CURRENT TECHNOLOGIES AND DEVELOPERS TO DEVELOP
DEPTH PROFILING/PHYSICAL PARAMETER END EFFECTORS

1.0 SUMMARY

Measurement of tank waste physical parameters is essential to develop design criteria for choosing retrieval equipment and developing tank waste simulant. A list of critical physical parameters of tank waste was defined for these purposes. A depth profiling device is needed to provide an alternative path for deploying sensors to various depths below the tank waste surface. A search for currently available technologies and developers is necessary to locate the most suitable resources for the development of depth profiling and physical parameter sensors. A summary of related technologies and/or developers for each physical parameter/depth profiling end effector is included.

2.0 PURPOSE

The purpose of this task is to assemble the corresponding lists of published papers, existing work at WHC, and commercial vendors who have measurement products that can be used to measure tank waste physical parameters or to penetrate tank waste.

3.0 SCOPE

A search for the most suited technologies and developers covered worldwide databases for published papers/documents, U.S. vendors master catalogs, and local databases at WHC.

4.0 DEFINITIONS

- **Sensor:** A measuring device or tool used to measure physical parameters of tank waste.
- **Depth Profiling:** Tank waste penetration device.
- **End Effector:** A common term for both Sensor and Depth Profiling devices.

- **Physical Parameters:** A general term describing various physical properties, environmental conditions, mechanical properties, elastic properties, etc... of tank waste.

5.0 INTRODUCTION

New characterization technologies are being developed to improve timeliness and reduce costs for characterizing tank waste. One goal of the new technology development program (Propson, 1993) is to develop in-situ characterization of tank waste parameters. Tank waste characterization includes the determination of chemical composition, physical properties and forms of tank waste. A list of physical parameters that are applicable to the retrieval process of tank waste was compiled (WHC-SD-WM-RD-039: Bhatia, 1993). This physical parameters list was prioritized (Nguyen, 1994) to provide an order for the development effort of the End Effector (EE).

Many physical characteristics of tank waste are needed to design the retrieval equipment properly (e.g., past-practice sluicing equipment, transfer pumps, Long-Reach Manipulator (LRM) system, mixer pumps). Physical characteristics of tank waste can also be used to develop tank waste simulant for testing and demonstrations of newly developed retrieval systems and components. Appendix A shows a list of tank waste physical parameters and their descriptions. Some of the selected tank waste physical parameters obtained through core sampling are recorded in "Summary of Tank Waste Physical Properties at the Hanford Site" (Nguyen, 1994). These parameters did not include all tanks.

A comprehensive search on current available technologies was conducted so that the most suitable measurement methods will be used in the design of sensors. Technical information from the search will provide a basis for the selection of methods to be used in the design of the end effectors. Without proper knowledge of today's technologies, a poor decision can lead to an inadequately designed end effector.

6.0 SEARCH SOURCES

The search for current technologies and developers of tank waste depth profiling/physical parameter end effectors covers the following three areas:

6.1 WORLDWIDE LITERATURE SEARCH

This search was performed through the Pacific Northwest Library in Richland. The search covers seven major databases under separate categories. The databases are: Energy Science and Technology, Ei Compendex Plus, INSPEC, NTIS, PASCAL, SCISEARCH, and SPIN. These databases contain worldwide published papers, government sponsored research and development, and technical

literatures of engineering and technology. These seven databases were selected based on the nature of the requested information, which centered around "radioactive waste" and "physical properties measurement." Appendix B provides a brief description of the seven databases used in the search.

6.2 U.S. VENDORS SEARCH

A "Vendor Master Directory" on CD-ROM at WHC and ICF Kaiser Hanford were utilized to perform the search for developers/vendors who have related products or are capable of developing the end effectors. The Vendor Master Directory is a catalog database on CD-ROM that has over 20,000 vendors with over 2.7 million manufacturers' catalogs. The search in this area will give a full search coverage of most major manufacturers in the U.S.

6.3 WHC INTERNAL WORK SEARCH

A search on local databases at WHC in Richland was performed to guarantee that all previous works at WHC will be utilized without unnecessary duplication. The databases used in this step are the Tank Farm Info (TFI) Database and the Engineering Release System Database (ESR-DB).

7.0 SEARCH STRATEGIES

7.1 WORLDWIDE LITERATURE SEARCH

The search on seven worldwide databases was performed using keywords located in the title and abstract of the paper. Due to the number of items needed, the literature search is separated into two searches: (1) the first search covers general physical parameter items (i.e., one keyword is "physical property/ies"), (2) the second search covers each specific item in the physical parameters list. The following lists the combination of keywords that were used in the two searches. Appendix C shows the actual keywords input for the search. In all searches, "AND" operation has precedence over "OR."

Search No 1 Strategy:

radioactive waste OR nuclear waste AND
physical property AND
measurement OR detection OR method OR technique

Search No 2 Strategy:

radioactive waste OR nuclear waste AND
NOT physical property AND
measurement OR method AND
detection OR technique AND
sensor OR instrument OR device AND

shear stress OR shear strength OR shear rate OR shear wave OR
yield strength OR viscosity OR viscoelasticity OR
abrasive OR corrosive OR permeability OR density OR
temperature OR pH OR compressive strength OR tensile strength OR
porosity OR rheology

All search articles are to be in English only and must be published between 1983 to 1993. This is necessary to reduce the number of records found.

7.2 U.S. VENDORS SEARCH

The U.S. vendor search was performed in two stages:

1. Announcements in the Commerce Business Daily for physical parameters measurement sensors and depth profiling device.
2. Send announcements to selected vendors in the U.S. The selection of U.S. vendors was performed using the CD-ROM Vendor Master Directory: Mar-Apr 1994 Issue.

The "Vendor Master Directory" on CD-ROM was used in this search for vendors within the U.S. Keywords will be used to find potential manufacturers. Individual physical parameters were used as product keywords in the search. For instance, the keyword "abrasive" will be used to search for all vendors that manufacture or sell products related to the abrasiveness of a material. In some cases, additional descriptions such as soil, cement, and concrete were added to the keywords to refine the search results. Main keywords for depth penetration device searches are "drill" and "mining." Table 7.1 lists all keywords used for physical parameters and depth profiling.

Table 7.1. Keywords Used in the Search
for Manufacturers in the U.S.

Physical parameter
Abrasive
Corrosive
Density
Moisture
pH
Porosity
Rheology
Shear Rate
Shear Strength
Shear Wave
Stress
Strength
Viscoelasticity
Viscosity

Depth Penetration
Drill & Cement
Drill & Concrete
Drill & Oil
Drill & Soil
Mining

Usually the database system will return a list of vendor names. The number of names in the list can be up to 250 (this is not the maximum number allowed by the program, it depends on the keywords entered). From the results list, a smaller name group is selected based on a brief description of product lines for each company. The announcements in the Commerce Business Daily will be sent to these selected companies requesting additional information on their products or capabilities.

7.3 WHC INTERNAL WORK SEARCH

A local search on WHC databases was necessary to locate previous and/or current development on physical parameter sensors. The databases used in the search is the TFI Database and the ERS-DB. These databases are constantly being updated as more information becomes available. Therefore, the results documented in this report are valid only to the date that the search was completed. The contents of the ERS-DB include: supporting documents, drawings, Engineering Change Number (ECN), projects, and others. The articles (or records) in the database can be searched by keywords in the title or description of the document.

The search on the ERS-DB was completed using individual physical parameters as keywords. The search on the TFI database was based on "characterization" as the keyword. Latest information on a particular project or work can be obtained by further communication with the authors or retrieving referenced documents.

8.0 SEARCH RESULTS

8.1 WORLDWIDE LITERATURE SEARCH

Search No 1 resulted in 1011 different records and Search No 2 resulted in 1026 different records. The output from each record includes: title, date, keywords, abstracts, and other keys for identification purposes. The resulting records are available from the author. A list of all the record titles are shown in Appendix D.

8.2 U.S. VENDORS SEARCH

Appendix E contains the results from the search for measuring devices of tank waste physical properties. The compressive strength, shear strength, and tensile strength are grouped into one item called "strength". The shear stress and yield stress are grouped into one item called "stress". Appendix F contains the selected vendor names from Appendix E for each physical property.

Appendix G contains the results from the search for the depth penetration device. Appendix H contains the selected vendor names from Appendix G.

Announcements in the Commerce Business Daily (CBD) are reproduced in Appendix I. The two advertisements were sent to the selected vendors from Appendix F and H. Appendix I lists all vendors who responded to the announcements in the Commerce Business Daily (CBD) and from mail contact through the selected vendors in Appendix F and H.

8.3 WHC INTERNAL WORK SEARCH

The ERS-DB was used to search for previous and current work at WHC. As described in previous sections, individual keywords were used to search for documents that have the same item in the title or keywords listing. Appendix J lists all document titles that were found in the search. In addition, a general search was performed at the Tank Farm Info Center using keyword "characterization." The result from this search is shown in Appendix K.

9.0 SUMMARY

The search for current technologies and manufacturers was needed to find the most appropriate technology to measure tank waste physical parameters and provide a waste penetration method. The search was performed using the following three search methods:

- Worldwide literature search
- U.S. vendors search
- WHC internal work search

The search results from worldwide literature and U.S. vendors are too numerous. The articles found from the worldwide literature search totalled about 2000 titles. The U.S. vendors search resulted in over 1000 distributors and manufacturers. The search results from previous and current internal work completed at WHC in Richland has about 360 items.

The worldwide literature search and the WHC internal work search were needed to find existing work and technology. The U.S. vendor search was completed to summarize all available manufacturers and distributors for each physical parameter defined. The results from these searches establish a single source of information that can be used as a reference to locate companies, published papers, or related work previously done on a particular physical parameter. Due to the time constraints, it is not feasible to review all articles found nor to request all vendors for additional information. However, this document maintains a valuable source of information for future references. The search methods and strategies used in this document can be repeated if necessary for additional physical parameters that may arise at a later time for different purposes.

Tables 9.1 and 9.2 list relevant sources or technologies for the selected physical parameters described earlier. They are by no means completed because not all found articles were reviewed. The sighted articles or methods were accepted for ideas only. Due to the time constraints, it is not physically possible to review all articles found in this search. The feasibilities of these techniques require further investigation.

Table 9.1. Possible Methods That Can Be Used
to Measure Tank Waste Physical Parameters.

Physical Parameter	Method/Vendor	Reference
Abrasiveness		
Compressive Strength	Standard Penetration Test	Ervin, M. C., (Douglas, D. J.)
	Quasi-static Penetration Testing	Ervin, M. C., (Sutcliffe, G. and Waterton, C.)
Corrosiveness		
Density	Standard Penetration Test	Ervin, M. C., (Douglas, D. J.)
	Buoyancy probe	Abdelhamid, M.S. et al.
pH	Sputtered Iridium Oxide Films (SIROF)	Kreiger, K.G.
	Silica Fibers (optical)	Boisde, G. and Perez, J.J.
Particle Size/Shape	Focus scanning laser	Galai Instrument, Inc.
Porosity	Well Logging	Javandel, I.
	Tracer Test	
Radiation		***
Settling Velocity		
Shear Strength	Shear Vane	Abdelhamid, M.S. et al. Heath, W.O.
		Ervin, M. C., (Walker, B. F.)
	Standard Penetration Test	Ervin, M. C., (Douglas, D. J.)
	Pressuremeter	Ervin, M. C.,
Shear Wave Velocity		
Tensile Strength		
Temperature		***
Viscosity	Shear Vane	Heath, W.O.
Viscoelasticity		

*** Technologies are well known at the Hanford Site.

Table 9.2. Possible Methods That Can Be Used
For Tank Waste Penetration Device.

	Method	Reference
Depth Penetration Device	Waterjet	Quest Integrated, Inc.

The search described in this report did not cover other sources of information as:

- Magazines
- Companies' internal documents, application notes, etc...
- Standard measurements from the American Standard for Testing and Measurement (ASTM)
- Standard handbooks
- Proprietary unpublished methods from outside companies
- Related disciplines such as Soil Engineering, Mechanical Engineering, Civil Engineering, etc...

10.0 REFERENCES

Abdelhamid, M.S., 1983, *In Situ Characterization of the High-Level Waste Sludge at West Valley*, Nuclear Waste Management (Proceedings of the Second International Symposium), pp. 124-131.

Bhatia, P. K., 1993, *Retrieval Technologies Characterization Data Needs*, WHC-SD-WM-RD-039, Westinghouse Hanford Company, Richland.

Boisde G. and Perez J. J., 1987, *Miniature Chemical Optical Fiber Sensors for pH Measurements*, SPIE Fiber Optic Sensors II, Vol. 798, pp. 238-245.

Ervin, M. C., 1983, *In Situ Testing for Geotechnical Investigations*, Proceedings of an Extension Course On In Situ Testing for Geotechnical Investigations, Sydney, May-June, pp. 21-31 (Douglas, D. J., *The Standard Penetration Test*).

Ervin, M. C., 1983, *In Situ Testing for Geotechnical Investigations*, Proceedings of an Extension Course On In Situ Testing for Geotechnical Investigations, Sydney, May-June, pp. 33-48 (Sutcliffe, G. and Waterton, C., *Quasi-static Penetration Testing*).

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Geotechnical Investigations*).

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Proceedings of an Extension Course On In Situ Testing for Geotechnical
Investigations, Sydney, May-June, pp. 65-86 (Walker, B. F., *Vane Shear
Strength Testing*).

Galai Instruments, Inc. 577 Main Street, Islip, New York, 11751.

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Repositories*, NUREG/CR-5711, National Institute of Standards and
Technology, U.S. Department of Commerce.

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and Results*, WHC-SD-TD-RPT-009, Rev 0, Westinghouse Hanford Company,
Richland.

Nguyen, Q. H., 1994, *Summary of Tank Waste Physical Properties at the Hanford
Site*, WHC-EP-0756, Westinghouse Hanford Company, Richland.

Quest Integrated, Inc., 21414 68th Avenue South, Kent, Washington 98032.

**APPENDIX A.
PHYSICAL PARAMETERS**

Physical parameters needed for the designing of the retrieval equipment.

Physical Property	Unit	Description
Abrasiveness		The quality or characteristic of being able to scratch, abrade, or wear away another material. The property of a material causing wear of a surface by friction. Miller number is one measure of abrasiveness.
Compressive Strength	Pa	The maximum compressive stress (a stress which causes an elastic body to shorten in the direction of the applied force) a material can withstand without failure.
Corrosiveness		Gradual destruction of metal or alloy due to chemical processes such as oxidation or the action of a chemical agent.
Density	g/cm ³	The mass of a given substance per unit volume.
Porosity	Percent	The ratio of the volume of air or void contained within the boundaries of material to the total volume expressed as a percentage. Porosity = (Voids Vol x 100)/Total Vol.
Particle Size	micron	The basic physical unit of the waste particle after water dissolution.
Particle Shape		The form of the basic unit particle (e.g., surface area to volume ratio of a particle).
Radiation	R/hour	The total amount of ionizing radiation absorbed by material or tissue, in the sense of absorbed dose (expressed in rads), exposure dose (expressed in roentgens), or equivalent (expressed in rems).
Shear Strength	Pascal (Pa)	The maximum shear stress which a material can withstand without rupture. The ability of material to withstand shear stress.
Shear Wave Velocity ¹	m/s	A wave that causes an element of an elastic medium to change its shape without changing its volume. Also known as rotational wave.

¹ Potentially needed property.

Settling Velocity	m/s	Settling velocity is the terminal rate of fall of a particle through a fluid as induced by gravity or other external force; the rate at which frictional drag balances the accelerating force (or the external force.)
Temperature	Celsius	The thermal state of matter as measured on a definite scale.
Tensile Strength	Pa	The maximum longitudinal stress developed in a test specimen before break on a tensile test carried to break under prescribed conditions. Tensile stress is the force per unit cross-sectional area, and may also be expressed as the force per unit width of the test specimen.
Viscosity (Shear stress vs. Shear Rate)	Pa*s	Viscosity is the ratio between the applied shear stress and shear rate. It is the property of internal resistance of a fluid that opposes the relative motion of adjacent layers.
Shear Stress	Pa	A stress in which the material on one side of a surface pushes on the other side of the surface with a force which is parallel to the surface. Also known as tangential stress.
Shear Rate	sec ⁻¹	The change in velocity of the parallel adjacent layers as a function of the distance from layer to layer; i.e., dV_x/dy in two-dimensional coordinate.
Viscoelasticity ²		The property of materials that strain under stress partly elastically and partly viscously, that is, whose strain is partly dependent on time and magnitude of stress.
Yield Stress	Pa	The maximum shear stress that can be applied without causing permanent deformation.
pH	pH	A term used to describe the hydrogen-ion activity of a system; a solution of pH from 0 to 7 is acid, pH of 7 is neutral, from 7 to 14 is alkaline.

² Potentially needed property.

APPENDIX B. DATABASE NAMES AND DESCRIPTIONS

Names and descriptions of seven databases that were used in the "Literature Search" category.

ENERGY SCIENCE AND TECHNOLOGY

ENERGY SCIENCE AND TECHNOLOGY (formerly DOE ENERGY), the database of the U.S. Department of Energy, is one of the world's largest sources of literature references on all aspects of energy and related topics. The database provides coverage of journal articles, report literature, conference papers, books, patents, dissertations, and translations. The following energy topics are included: nuclear, wind, fossil, geothermal, tidal, and solar. Related topics such as environment, energy policy, and conservation are also included.

Ei COMPENDEX PLUS

The Ei COMPENDEX*PLUS™ database provides abstracted information from the world's significant literature of engineering and technology. Ei COMPENDEX PLUS provides worldwide coverage of approximately 4,500 journals and selected government reports and books. Subjected covered include: civil, energy, environmental, geological, and biological engineering; electrical, electronics, and control engineering; chemical, mining, metals, and fuel engineering; mechanical, automotive, nuclear, and aerospace engineering; and computers, robotics, and industrial robots.

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NTIS

The NTIS database provides access to the results of U.S. government-sponsored research, development, and engineering, plus analyses prepared by deferral agencies, their contractors, or grantees. It is the means through which unclassified, publicly available, unlimited distribution reports are made available for sale from agencies such as NASA, DDC, DOE, HUD, DOT, Department of Commerce, and some 600 other agencies. In addition, some state and local government agencies now contribute their reports to the database.

NTIS also provides access to the results of government-sponsored research and development from countries outside the U.S. Organizations that currently contribute to the NTIS database include: the Japan Ministry of International Trade and Industry (MITI); laboratories administered by the United Kingdom

Department of Industry; the German Federal Ministry of Research and Technology (BMFT); the French National Center for Scientific Research (CNRS); and many more.

PASCAL

PASCAL is a multidisciplinary database equivalent to the 79 print Pascal journals. Major subjects covered include: life sciences, biology, and medicine; chemistry, applied chemistry, and pollution; energy; metallurgy, mechanical and civil engineering; transportation; food and agricultural sciences; earth sciences; physics and space sciences; and computer sciences and engineering.

SCISEARCH

SCISEARCH® is a multidisciplinary index to the literature of science and technology. Prepared by the Institute for Scientific Information (ISI), it contains all records published in Science Citation Index (SCI®) and additional records from the Current Contents series of publications that are not included in the print version of SCI. SCISEARCH is distinguished by two important and unique characteristics. First, journals indexed are carefully selected on the basis of several criteria, including citation analysis, resulting in the inclusion of 90 percent of the world's significant scientific and technical literature. Second, citation indexing is provided, which allows retrieval of newly published articles through the subject relationships established by an author's reference to prior articles. SCISEARCH covers every area of the pure and applied sciences.

SPIN

SPIN® (Searchable Physical Information Notices) is designed to provide the most current indexing and abstracting of a selected set of the world's most significant physical journals. SPIN covers all major area of physics, including mathematical and statistical physics, astronomy, astrophysics, and geophysics.

APPENDIX C.
WORLDWIDE LITERATURE SEARCH LOG

This appendix includes the summary of the steps that were used to perform worldwide literature search at the Battelle Pacific Northwest Library, Richland, Washington. Databases used are INSPEC, NTIS, Ei COMPENDEX PLUS, ENERGY SCIENCE AND TECHNOLOGY, PASCAL, and SCISEARCH. The term "s" represents "set", a temporary storage place to save intermediate search records.

<u>Search No 1 strategy:</u>	Comments
s1 : (radioactive or nuclear)(2n)waste? ?	
s2 : physical()property???	
s3 : measur? or detect? or method? or technique? ?	
s4 : s1 and s2 and s3	
s5 : s4/ENG	English only
s6 : rd	Remove Duplication
Total 1011 Unique records	

<u>Search No 2 strategy:</u>
s1 : physical()propert???
s2 : (radioactive or nuclear)(2n)waste? ?
s3 : s1 and s2
s4 : s3 and (sensor? ? or instrument? ? or device? ?)
s5 : s4 not (method? or measur?)
s6 : s2 and (shear()(stress or strength or rate or wave))
s7 : s2 and (yield()strength or viscosit?? or viscoelastic)
s8 : s2 and (abrasiv? or corrosiv? or permeab? or density or temperature? ?)
s9 : s2 and (ph or ((compressive or tensile)()strength) or porosity or rheology)
s10: s6:s9
s11: s10 and (measur? or method?)
s12: shear()(stress or strength or properties or wave or rate)
s13: s12/ti,de
s14: yield()strength or viscosit??/ti,de or viscoelastic
s15: (abrasiv? or permeab? or density or temperature? ?)/ti,de
s16: s13 and s2
s17: (s14 or s15) and s2
s18: pH/ti,de or (compressive or compression()strength)/ti,de
s19: tensile()(strength or properties)/ti,de or corrosiv?
s20: porosity/ti,de or rheology/ti,de
s21: (s18:s20) and s2
s22: s16 or s17 or s21
s23: s22 and (measur? or method?)
s24: S22 and (detect? or technique? ?)
s25: S22 and (sensor? ? or instrument? ? or device? ?)
s26: S22 and (measur?/ti,de or method?/ti,de)
s27: s22 and (detect?/ti,de or technique? ?/ti,de)

WHC-SD-TD-RPT-011
Revision 0

s28: s25 or s26 or s27
s29: s28/ENG
s30: s29 not (physical()propert???)
s31: rd
s32: s5 or s31
s33: s32/1983:1993
Total 1026 Unique records

APPENDIX D.
WORLDWIDE LITERATURE SEARCH RESULTS

This appendix lists the search results from the worldwide literature search. The complete hard copy is not included in this report but it can be found in ??. Only titles from the records found are listed here for completeness.

SEARCH NO 1: GENERAL PHYSICAL PROPERTY

Hanford Technical Library
 Database Search Service
 11/29/93 10:12am

Record	Title
1	Analytical Chemistry Laboratory (ACL) procedure compendium
2	LBL/GRP studies of fractured rocks: Summary FY 1986--1990
3	Earth Sciences Division annual report 1988
4	Chemical Technology Division, Annual technical report, 1991
5	Earth Sciences Division annual report, 1987
6	Resource Conservation and Recovery Act, Part B permit application
7	Argonne National Laboratory Research Highlights 1988
8	Chemical Technology Division annual technical report, 1988
9	Thermochemistry of minerals stable near the earth's surface
10	Plutonium helps probe protein, superconductor
11	Grimsel test site. Overview and test programs
12	Repository design sensitivity study: Engineering study report TI <Augmentation> Contains glossary
13	Block Test Step 1 report
14	Chemical technology division: Annual technical report 1987
15	Thermal conductivity probe test procedure: Final draft
16	Treatment of low- and intermediate-level liquid radioactive wastes TI <Series/Collective> Technical reports series
17	INTRACOIN. Final report levels 2 and 3. Model validation and uncertainty analysis
18	Geochemistry TI Earth Sciences Division annual report, 1982
19	Scientific investigations of radioactive waste disposal in salt at WIPP TI Sandia Technology. Volume 9, No. 1
20	Feasibility study for the design of a simulated radioactive waste repository facility. Volume 2 - figures - tables
21	Donald C. Cook Nuclear Power, Unit 1. Environmental operating report: July--December 1976
22	Nevada Nuclear Waste Storage Investigations Project. Quarterly report, April-June 1985
23	Nukleonika. Volume 14, Number 4, 1969
24	Chemistry of transuranium elements and compounds TI Chemistry Division annual progress report for period ending January 31, 1985
25	Finite-length line source superposition model (FLLSSM)
26	Evaluation of technology for large- and small-diameter boreholes to characterize crystalline rock

27 | Oceanographic model for the dispersion of wastes disposed of in the deep sea

28 | Disposal of spent nuclear fuel

29 | Report of laboratory testing on rock core samples, Mansfield No. 1 (PD-4) well, Palo Duro Basin, Texas: unanalyzed data

30 | Results of repository conditions study for commercial and defense high-level nuclear waste and spent fuel repositories in salt

31 | Admissible thermal loading in geological formations. Consequences on radioactive waste disposal methods. Vol. 1.

32 | Study of chemical toxicity of low-level wastes. Volume 2. Monographs

33 | Study of chemical toxicity of low-level wastes. Volume 1. Main report

34 | Repository TI Technical progress report, 1 April-30 June 1981

35 | Uranium Hexafluoride: Handling Procedures and Container Descriptions

36 | Basic data report for drillhole ERDA 9 (Waste Isolation Pilot Plant WIPP)

37 | Basic data report for drillhole WIPP 15 (Waste Isolation Pilot Plant-WIPP)

38 | Solidification of high level wastes. Part III. Solubility, melting point, flow temperature and thermal conductivity of some calcined, synthetic purex-type wastes

39 | Borehole plugging telemetry system. Technical report

40 | Characteristics of solidified high-level waste products

41 | Thermal/mechanical properties of Pomona and Umtanum basalts: elevated temperature comparative triaxial test

42 | Basic data report for drillhole WIPP 30 (Waste Isolation Pilot Plant - WIPP)

43 | Resource Conservation and Recovery Act, Part B permit application. Volume 3

44 | Subseded disposal program annual report, January-December 1978. Volume II. Principal investigator progress reports

45 | Millstone Nuclear Power Station, Units 1 and 2. State of Connecticut, Dept. of Environmental Protection NPDES permit

46 | Publications of the Physikalisch-Technische Bundesanstalt Compiled by Referat Schrifttum

47 | Below Regulatory Concern Owners Group: nonradiologic characterization and environmental assessment of BRC waste

48 | <English> Underground disposal of radioactive wastes. Basic guidance

49 | Analysis of Annual Mean and Collective Doses of Occupational Exposure of Personnel in KFTI AN USSR (Akademiya Nauk USRS, Kharkov. Fiziko-Tekhnicheskii Inst.)

50 | Study of the Possibilities of Radioactive Waste Storage in Crystalline Formations. Investigation by Deep Drilling of the Auriat Granite

51 | Evaluation of radon emissions and potential control requirements: For the Weldon Spring Site Remedial Action Project, Weldon Spring, Missouri

52 | Laboratory testing of rock and salt samples for determination of specific gravity and total porosity of the Zeeck No. 1 well (PD-7), Palo Duro Basin, Texas: unanalyzed data

53 | Laboratory testing of rock and salt samples for determination of specific gravity and total porosity of the Mansfield No. 1 Well (PD-4), Palo Duro Basin, Texas: unanalyzed data

54 | National waste terminal storage repository in a bedded salt formation for spent unprocessed fuel. Special study No. 3. Waste retrieval from backfilled regions

55 | Disposal of radioactive waste into geological formations: studies on crystalline rock

56 | Development and characterization of cermet forms for radioactive waste

57 | In situ characterization of the high-level waste sludge at West Valley Nuclear waste management TI <Series/Collective> Advances in ceramics, vol. 8

58 | Elastic and strength properties of Hanford concrete mixes at room and elevated temperatures

59 | Fluid-bed process for Synroc production Nuclear waste management TI <Series/Collective> Advances in ceramics, vol. 8

60 | Thermal conductivity of S.E. New Mexico rocksalt and anhydrite TI <Augmentation> Saltcrete

61 | Geo-engineering review and proposed program outline for the structural design of a radioactive waste repository in Columbia Plateau basalts

62 | Hydrochemical investigations at Finnsjoen, Sweden Characterization of fracture zone 2, Finnsjoen study-site

63 | Non-destructive determination of ^{239}Pu in wastes by application of ..gamma..-ray measurement

64 | Magnetic susceptibility of sodium disilicate glasses containing $\text{PuO}_{2/3}$ TI <Augmentation> 4 to 300/ $^{239}\text{Pu}/\text{K}$

65 | In situ containment and stabilization of buried waste. Annual report FY 1992 TI <NOTE> Progress rept

66 | Radiant-heat spray calcination studies

67 | Experimental studies of packing material stability

68 | Heat transfer analysis of the geologic disposal of spent fuel and high-level waste storage canisters

69 | Startup of a Joule-heated glass melter with a graphite slurry Nuclear waste management TI <Series/Collective> Advances in ceramics, vol. 8

70 | Hydraulic testing in crystalline rock. A comparative study of single-hole test methods

71 | Palaeomagnetism of major rock units surrounding the Vaalputs National Radioactive Waste Disposal Site

72 | Rock property analysis of core samples from the Yucca Mountain UE25a-1 borehole, Nevada Test Site, Nevada TI <Augmentation> NNWSI project

73 | Rock property analysis of core samples from the Calico Hills UE25a-3 borehole, Nevada Test Site, Nevada TI <Augmentation> NNWSI project

74 | Rock property measurements on large-volume core samples from Yucca Mountain USW GU-3/G-3 and USW G-4 boreholes, Nevada Test Site, Nevada

75 | Development of test methods for quality control of LLW and MLW in cement or polymers (Parts 1 and 2). Task 3. Characterization of radioactive waste forms. A series of final reports (1985-1989) no. 39

76 | PAPERS PRESENTED AT ACTINIDES 85.

77 | Volume calibration and instrument testing at ENEA (Italian Commission for Alternative Energy Sources) central research laboratory (Casaccia, Italy)

78 | Iron-nickel alloys as canister material for radioactive waste disposal in underground repositories Earth Sciences Division annual report 1981

79 | Theoretical and experimental evaluation of waste transport in selected rocks: 1977 annual report of LBL Contract No. 45901AK. Waste Isolation Safety Assessment Program: collection and generation of transport data

80 | Structural thermodynamic model for the durability and viscosity of nuclear waste glasses

81 | Preliminary research on geological isolation of high-level radioactive waste at the Japan Atomic Energy Research Institute Underground disposal of radioactive wastes. Proceedings of a symposium jointly organized by the IAEA and the OECD NEA and held at Otaniemi, Finland, 2-6 July 1979

82 | Pretest 3D finite element analysis of the WIPP Intermediate Scale Borehole Test

83 | Radiation hardening of rocksalt

84 | Ion implantation effects in alkali-borosilicate glasses

85 | Ion implantation effects in glasses

86 | Thermochemical properties of SrSiO₄(g) and SrBo₂ sub 2 (g) (in relation to radioactive waste disposal)

87 | Vaporisation of sodium-rubidium borosilicate glasses

88 | Mapping and monitoring nuclear waste repositories with subsurface electrical resistivity arrays Proceedings of the 57th annual international SEG meeting: Expanded abstracts with biographies

89 | Measurement methods for thermal transport properties of rocks Research and engineering applications in rock masses. Volume 2

90 | Metal compacts for high-level radioactive wastes fixation

91 | Solidification of high-level radioactive wastes by metal matrix

92 | The Mirage Project: Actinide and fission product physico-chemical behaviour in geological environment Radioactive waste management and disposal

93 | Above-ground storage facilities for vitrified highly active wastes

94 | Study of the Boom clay layer as a geochemical barrier for long-lived radionuclides High-level nuclear waste disposal

95 | 106-AN grout pilot-scale test HGTP-93-0501-02

96 | Analysis of hydraulic gradients across the host rock at the proposed Texas Panhandle nuclear-waste repository site

97 | Flow directions and hydraulic gradients in the variable density flow system at the proposed high-level nuclear waste repository site in the Texas panhandle

98 | Constitutive properties and material model development for marine sediments in support of the subseabed disposal program Subseabed disposal program annual report, January-December 1980. Volume II. Appendices (principal investigator progress reports). Part 1

99 | Faults in clays their detection and properties

100 | Magnetic properties of drill core and surface samples from the Calico Hills area, Nye County, Nevada

101 | A methodology to define the flow rate and pressure requirements for transfer of double-shell tank waste slurries

102 | Seismic design and evaluation guidelines for the Department of Energy high-level waste storage tanks and appurtenances

103 | Leaching of saltstones containing fly ash

104 | High-temperature vitrification of Hanford residual-liquid waste in a continuous melter

105 | Geochemical behavior of disposed radioactive waste

106 | Solidification of High Level Wastes. Part V. A Factorial Study of the Effect of Varying the Concentration of the Components of Purex Type Waste on the Properties of Phosphate Solids. Appendix. Response Surface Statistical Analysis

107 | The modelling and measurement of super-conducting rock joints Research and engineering applications in rock masses. Volume 1

108 | Method for field determinations of the chemical and physical characteristics of radionuclides after release into the river water Radiation - risk - protection. Vol. 2

109 | Rock properties input to the site screening process

110 | Chemical aspects governing the choice of backfill materials for nuclear waste repositories

111 | Interpretation of hydraulic testing in the sediments of the Riniken borehole

112 | Interpretation of hydraulic testing in crystalline rock at the Leuggern borehole

113 | The effects of petroleum coke properties on carbon anode quality

114 | 242-A Evaporator/Crystallizer flowsheet

115 | Recommendations to the NRC for soil cover systems over uranium mill tailings and low-level radioactive wastes

116 | Hanford site Grout Treatment Facility.

117 | Tabulation and evaluation of ion exchange data on smectites, certain zeolites and basalt

118 | Thermal analysis of the WIPP in situ Room A1 DHLW package experiments

119 | Numerical thermal modeling of the WIPP in situ room A1 simulated DHLW experiments Waste management '87: Waste isolation in the US, technical programs, and public education TI <Series/Collective> Volume 2 - High-level waste

120 | A thermodynamic description of the evolution of pore water chemistry and uranium speciation during the degradation of cement

121 | Impacts to nuclear utilities of 10CFR61 Waste isolation in the U.S., technical programs and public education. Vol. 2

122 | Effects of alpha, gamma, and alpha-recoil radiation on borosilicate glass containing Savannah River Plant defense high-level nuclear waste TI <Augmentation> Lead ions-250 keV⁺ xenon ions-160 keV

123 | Control of high-level radioactive waste-glass melters

124 | Control of high-level radioactive waste-glass melters. Part 4, Preliminary analysis of DWPF process laboratory capabilities

125 | The role of colloids in the transport of radionuclides in geological formations

126 | Critical parameters for a high-level waste repository: Volume 2, Tuff

127 | Critical parameters for a high-level waste repository: Volume 3, Salt

128 | Critical parameters for a high-level waste repository. Volume 1. Basalt

129 | Trials and control of placing and sealing materials for deposits in scale models Sealing of Radioactive Waste Repositories

130 | Effects of long-term exposure of tuffs to high-level nuclear waste-repository conditions. Preliminary report

131 | Inservice inspection of double-shell storage tanks at the Hanford Site

132 | Results of a multiple borehole pumping test in low permeability granite Low flow, low-permeability measurements in largely impermeable rocks

133 | Rapid estimation of the regional thermal response to a nuclear waste repository-limiting case analysis

134 | Application of integral methods to prediction of heat transfer from a nuclear waste repository

135 | Rock mechanics methods and in situ heater tests for design of a nuclear waste repository in basalt

136 | Laboratory determination of the mechanical, ultrasonic and hydrologic properties of welded tuff from the Grouse Canyon heated block site: Nevada Nuclear Waste Storage Investigations Project TI <Augmentation> NNWSI

137 | Determination of the thermal properties of clays in large-size samples

138 | Site Characterization Data for Solid Waste Storage Area 6

139 | Characterization plan for Solid Waste Storage Area 6

140 | Laboratory testing and computer simulation of clay barrier behaviour

141 | Permeability of the multilayer overburden system at the Weldon Spring site Proceedings of the geosciences workshop. Weldon Spring Site Remedial Action Project

142 | Storage and solidification of MAW/LAW in underground caverns. Second semiannual report 1979

143 | Study of the Penetration of Projectiles into Marine Sediments

144 | Statistical tests applied as quality control measures to leaching of nuclear waste glasses and in the evaluation of the leach vessel

145 | Melting process to condition decladding hulls generated by the reprocessing of LWR and FBR spent fuels Scientific basis for nuclear waste management. Volume 3

146 | Cross borehole electromagnetic imaging of chemical and mixed waste landfills

147 | Interim report on excavation effect studies at the waste isolation pilot plant: the delineation of the disturbed rock zone Excavation response in geological repositories for radioactive waste Proceedings of an NEA Workshop

148 | Induced polarisation and the assessment of sorption/diffusion at radioactive waste repository sites

149 | Crystallization of nuclear waste disposal glass

150 | Measurement of the specific resistance of vitrified highly-active waste

151 | Thermal effects in disposal of radioactive waste in hard rock Experiences de degagement de chaleur in situ dans les formations geologiques

152 | Determination of the Cs content of packaged radioactive waste using measured dose rates

153 | Destruction of DOE/DP surrogate wastes with supercritical water oxidation technology

154 | A thermomechanical analysis of WIPP (Waste Isolation Pilot Plant) DHLW (Defense High Level Waste) experiments: Waste container/borehole interactions

155 | Second reference calculation for the WIPP

156 | RF/microwave volume-reduction and stabilization system for radwaste resins Waste management 86. Volume 3: Low level waste

157 | The response of the aerodynamic particle sizer to nonspherical particles and use in experimental determination of dynamic shape factor

158 | Development of waste unit for use in shallow land burial
159 | Measurement of radionuclides in waste packages
160 | Short description of hocus cruise and conclusion HOCUS cruise report
161 | Evaluation of geophysical borehole studies
162 | Experiences in the evaluation of fully active waste products
 Radioactive waste management. Proceedings of the conference organized
 by the British Nuclear Energy Society, London, 27-29 November 1984
163 | Prediction of formation constants for actinide complexes in solution
164 | Soil density and mass attenuation coefficients for use in shielding
 calculations at the Hanford Waste Vitrification Plant
165 | Determination of the solubility of amorphous UO₂(s) and the
 mononuclear hydrolysis constants of uranium(IV) at 25°C Scientific
 basis for Nuclear Waste Management X
166 | High-level waste vitrification product characterization Scientific
 basis for nuclear waste management
167 | Solubilities and speciation of radionuclides in brines: Technical
 program plan, Fiscal years 1988, 1989: Revised
168 | Characterization of several plasters and one retarder for repository
 sealing mixtures. Final report
169 | Characterization of Several Plasters and One Retarder for Repository
 Sealing Mixtures TI <NOTE> Final rept.
170 | Design of a hot pilot plant facility for demonstration of the pot
 calcination process TI <Series/Collective> IAEA Preprint No. SM-31/18
171 | Pretest thermal analysis of the Tuff Water Migration/In-Situ Heater
 Experiment
172 | Disposal of toxic waste
173 | Full-scale borehole sealing test in salt under simulated downhole
 conditions. Volume 1 TI <Augmentation> Avery Island diapiric salt
174 | Calculation of the 5kW full scale heater test at Stripa with
 temperature dependent thermal conductivity and expansion coefficient
 TI <Augmentation> Thermal loading effects from waste repository
175 | Thermomechanical modeling of the spent fuel test - Climax Rock
 mechanics:Key to energy production
176 | Interdependence of phase chemistry, microstructure, and oxygen
 fugacity in titanate nuclear waste ceramics
177 | Seismic stability analysis of disposal cells on the Uranium Mill
 Tailings Remedial Action Project Proceedings of the geosciences
 workshop. Weldon Spring Site Remedial Action Project
178 | Application of finite difference techniques to the thermal analysis of
 the cooling of a slag casting
179 | Immobilization of Savannah River high-level wastes in SYNROC: results
 from performance tests
180 | Properties of SYNROC-D nuclear waste form: a state-of-the-art review
181 | Transport in unsaturated flow systems using centrifuge techniques
 Proceedings of the DOE/Yucca Mountain Site Characterization Project
 Radionuclide Adsorption Workshop at Los Alamos National Laboratory,
 September 11--12, 1990
182 | Characterization of a borosilicate glass incorporating MTR HLW with
 reference to the underground disposal Spectrum '86: Proceedings:
 Volume 1
183 | Pilot heater test in the Stripa granite

184 | Action plan for response to abnormal conditions in Hanford site radioactive waste tanks containing ferrocyanide

185 | Hydraulic and thermal properties of soil samples from the buried waste test facility

186 | Method and apparatus for obtaining mechanical energy from low temperature heat sources TI <Augmentation> Patent

187 | Relationships Between Properties of Hanford Area Soils and the Availability of exp 134 Cs and exp 85 Sr for Uptake by Cheatgrass and Tumbleweed

188 | Relationships between properties of Hanford area soils and the availability of /sup 134/Cs and /sup 85/Sr for uptake by cheatgrass and tumbleweed

189 | Near-field high-temperature transport: Evidence from the genesis of the Osamu Utsumi uranium mine, Pocos de Caldas alkaline complex, Brazil

190 | Potential industrial applications of calixarenes New separation chemistry techniques for radioactive waste and other specific applications

191 | Physical characterization of radioactive sludges in selected Melton Valley and evaporator facility storage tanks

192 | Selection and evaluation of potential very low level wastes (VLLW) from nuclear power plants Waste Management '85: Waste Isolation in the US - Technical Programs and Public Education. Volume 2. Waste policies and programs, low-level waste

193 | Calculated thermally induced displacements and stresses for heater experiments at Stripa, Sweden. Linear thermoelastic models using constant material properties

194 | Rock properties and their effect on thermally-induced displacements and stresses

195 | Predicted and measured temperatures, displacements and stresses from the Stripa heater experiments

196 | Heat transfer in underground heating experiments in granite, Stipa, Sweden

197 | Thermomechanical modeling and data analysis for heating experiments at Stripa, Sweden

198 | Feasibility studies for a radioactive waste repository in a deep clay formation

199 | Redox calcination study of Synroc D powder containing simulated SRL waste

200 | Experiment and analysis comparison in support of the Yucca Mountain Project

201 | Analysis of two radioactive nepheline syenite glass hemispheres retrieved from the Chalk River Nuclear Laboratories' waste management site Radioelement analysis: progress and problems

202 | Nuclear fuel waste management program geotechnical studies of Eye-Dashwa lakes research area rock properties TI <NOTE> Report no. MRL 92-065(TR)

203 | Nuclear fuel waste management program geotechnical studies of Eye-Dashwa Lakes Research Area rock properties. Report No. MRL 92-065(TR)

204 | Progress Report on French Research and Development in the Treatment of off-Gases from Reprocessing Plants

205 | Factors influencing mass diffusion in bentonite and mixtures of bentonite and sand Scientific basis for nuclear waste management VII TI <Series/Collective> Materials Research Society symposia proceedings, Volume 26

206 | West Valley high-level nuclear waste glass development: a statistically designed mixture study

207 | Evaluation of lead-iron-phosphate glass as a high-level waste form

208 | Development of a West Valley nuclear waste glass by empirical modeling

209 | Statistically designed study of a nuclear waste glass system Scientific basis for nuclear waste management

210 | A pelletizing model and its application to radioactive waste treatment

211 | Evaluation of cement stability Waste management '85: waste isolation in the US technical programs and public participation. Volume 3. General interest

212 | Freeze and restart of the DWPF Scale Glass Melter

213 | Thermal effects of electrically conductive deposits in melter

214 | Prediction of temperatures in underground storage facilities for heat-generating materials at the Idaho Chemical Processing Plant

215 | Experimental and analytical studies of the thermal aspects of deep geologic disposal of commercial nuclear wastes TI <Augmentation> Includes Glossary

216 | Heterogeneous Oxidative Degradation in Irradiated Polymers

217 | Disposal of low-level radioactive waste using high-calcium fly ash. Final report

218 | Properties of radioactive wastes and waste containers. Quarterly progress report, October--December 1976 TI <Augmentation> Urea-formaldehyde[^] polymer[^] portland cement

219 | Properties of radioactive wastes and waste containers. Quarterly progress report, January--March 1977

220 | Properties of radioactive wastes and waste containers. Progress report No. 5, April--June 1977

221 | Natural analogue study of the distribution of uranium series radionuclides between the colloid and solute phases in the hydrogeological system of the Koongarra uranium deposit N.T., Australia Natural analogues in radioactive waste disposal. Proceedings of a symposium organised by the CEC and held in Brussels, BE, on 28-30 April 1987 <Original Series/Collective> Radioactive Waste Management Series

222 | Mechanisms and quantitative evaluations of radionuclide fixation in geosphere Natural analogues in radioactive waste disposal. Proceedings of a symposium organised by the CEC and held in Brussels, BE, on 28-30 April 1987 <Original Series/Collective> Radioactive Waste Management Series

223 | Studies and researches in the underground laboratory at Pasquasia mine Geomechanics of clays for radioactive waste disposal

224 | Diffusion barrier properties of unsaturated paintbrush tuff rubble backfill

225 | Advanced oxidation and reduction processes: Closed-loop applications for mixed waste

- 226 | Key issues Proceedings of workshop on thermomechanical-hydrochemical modeling for a hardrock waste repository
- 227 | Choice of french clays as engineered barrier components for waste disposal Scientific basis for Nuclear Waste Management X
- 228 | Nuclear waste repository simulation experiments (brine migration), Asse Mine of the Federal of Germany: Quarterly brine migration data report, July-September 1984
- 229 | Supporting document test plan for jointed Block Test No. 1
- 230 | Block Test No. 1 final report: Results from experimental and numerical analyses at elevated temperatures.
- 231 | Heat removal options and temperature predictions for a vault of grouted waste
- 232 | Research and development related to the Nevada nuclear waste storage investigations. Progress report, January 1-March 31, 1980
- 233 | Temperature distribution in a hypothetical spent nuclear fuel repository in a salt dome
- 234 | Savannah River Site environmental report for 1989
- 235 | Savannah River Site environmental report for 1989. Volume 2, Figures and data tables
- 236 | Temperature distribution in a hypothetical spent nuclear fuel repository in a salt dome
- 237 | Unsaturated zone characterization of the Area 5 Radioactive Waste Management Site
- 238 | Unsaturated zone characterization of the Area 5 Radioactive Waste Management Site. Phase 1, Preliminary laboratory studies for the determination of soil moisture characteristic curves and unsaturated hydraulic conductivities
- 239 | Laboratory-determined transport properties of Berea sandstone
- 240 | High frequency electromagnetic tomography TI <Augmentation> Yucca Mountain Project
- 241 | Analysis and Development of Methods for the Recovery of Degraded Tri-N-Butyl Phosphate (TBP)-30%V/V-Dodecane TI <NOTE> Tese (M.Sc.)
- 242 | Archive fuel characterization: Task 2 and Task 3
- 243 | Comparison of the microstructure of Hanford Type II concrete structures and test specimens
- 244 | Geophysical well-log measurements in three drill holes at Salt Valley, Utah
- 245 | Hole-to-surface resistivity measurements at Salt Valley, Utah
- 246 | Borehole geophysical measurements for Hole UE25a-3, Nevada Test Site, Nuclear Waste Isolation Program
- 247 | Interpretation of geophysical well-log measurements in drill holes UE25a-4, -5, -6, and -7, Yucca Mountain, Nevada Test Site
- 248 | Effects of various tailings covers on radon gas emanation from pyritic uranium tailings Proceedings of the 1987 national symposium on mining, hydrology, sedimentology, and reclamation
- 249 | Geopolymers: Inorganic Polymeric New Materials.
- 250 | Site characterization techniques used at a low-level waste shallow land burial field demonstration facility

251 | Potential for de-regulated disposal of very low level wastes from nuclear power plants Proceedings of the eight annual DOE low-level waste management forum: Technical Session 7, Waste characterization and regulation

252 | Site investigation methods used in Canada's nuclear fuel waste management program to determine the hydrogeological conditions of plutonic rock High-level nuclear waste disposal

253 | Characterizing plutonic rock sites for nuclear fuel waste disposal

254 | Cross borehole seismic tomography applications to mineral development

255 | Effects of hydrostatic pressure on the integrity of concrete. II. Preliminary studies on monolithic blast furnace slag/cement under simulated sea disposal conditions

256 | Effects of hydrostatic pressure on the integrity of concrete. 1. Preliminary studies on monolithic concrete under simulated sea-disposal conditions

257 | Creep of ocean sediments resulting from the isolation of radioactive wastes Radioactive wastes and the ocean TI <Series/Collective> Wastes in the ocean. Vol. 3

258 | Effects of hydrostatic pressure on the integrity of concrete. Pt. 2. Preliminary studies on monolithic blast furnace slag/cement under simulated sea disposal conditions

259 | Evolution of hydrologic systems and brine geochemistry in a deforming salt medium: Data from WIPP brine seeps

260 | Practical aspects of heat transfer in radioactive-waste repository design

261 | Characterization of products arising from the incorporation of low and medium level wastes in cement or polymer matrix

262 | Effects of long-term exposure to elevated temperature on the mechanical properties of Hanford concrete

263 | Development of an in-line grout meter for improved quality control

264 | Characterization and thermal conductivities of some samples of Conasauga shale

265 | Thermal aspects of subseabed disposal of high-level radioactive waste Geotechnical engineering of ocean waste disposal

266 | Experiments to determine the migration potential for water and contaminants in shallow land-burial facilities: design, emplacement, and preliminary results

267 | The measurement of thermal diffusivity of simulated glass forming nuclear waste melts Advances in materials characterization TI <Series/Collective> Materials Science Research

268 | Physico-Chemical Radioiodine Species in the Exhaust Air of a Pressurized Water Reactor (PWR3)

269 | Standard free energy of formation of $UMoO_6$ by thermogravimetry

270 | STUDY OF THE COMPACTION PROPERTIES OF POTENTIAL CLAY-SAND BUFFER MIXTURES FOR USE IN NUCLEAR FUEL WASTE DISPOSAL.

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- 911 | Structural changes in irreversibly densified fused silica: implications for the chemical resistance of high level nuclear waste glasses
- 912 | Thermal conductivity measurements of Pacific illite sediment/sup 1/
- 913 | Pressure effects on thermal conductivity and expansion of geologic materials
- 914 | Thermal properties measurements on rocksalt samples from the site of the proposed Waste Isolation Pilot Plant
- 915 | Thermal conductivity of rocksalt and other geologic materials from the site of the proposed waste isolation pilot plant
- 916 | Development of empirical relationships for hydrofracture grouts
- 917 | In-Situ Grouting of Uranium-Mill-Tailings Piles: An Assessment
- 918 | In situ and laboratory heating experiments in clay rocks
- 919 | Corrosion studies on containment materials for vitrified high level nuclear waste. Annual progress report for 1983
- 920 | Characterization of borosilicate glasses containing simulated high-level radioactive wastes from PNC Ceramics in nuclear waste management
- 921 | Application of SYNROC to high-level defense wastes Alternate nuclear waste forms and interactions in geologic media
- 922 | Simultaneous spectrophotometric determination of uranium(VI) and iron(III) in purex process streams (Preprint no. AC-08) International symposium on radiochemistry and radiation chemistry (Plutonium - 50 years) (held at Bombay during February 4-7, 1991): Preprints volume
- 923 | Dighem sup II airborne electromagnetic/resistivity/magnetic VLF survey of the Chalk River research area, Ontario Proceedings of a workshop on geophysical and related geoscientific research at Chalk River, Ontario
- 924 | A review of geophysical investigations at the site of Chalk River Nuclear Laboratories, Ontario
- 925 | Sodium diffusion in the nuclear waste glass GP 98/12
- 926 | Material constitutive model for jointed rock mass behavior
- 927 | PTRACK: A particle tracking program for evaluation travel path/travel time uncertainties
- 928 | Calculations on HYDROCOIN level 2, case 1 using the GWHRT flow model. Thermal convection and conduction around a field heat transfer experiment
- 929 | Scale dependence of effective media properties
- 930 | Geoengineering properties of potential repository units at Yucca Mountain, southern Nevada
- 931 | Solid state containment of noble gases in sputter deposited metals and low density glasses Management of gaseous wastes from nuclear facilities. Proceedings of an international symposium jointly organized by the IAEA and the NEA of the OECD and held in Vienna, 18-22 February 1980
- 932 | Kinetics of sorption of some long-lived fission products on inorganic sorbents Use of inorganic sorbents for treatment of liquid radioactive waste and backfill of underground repositories
- 933 | Development, implementation, and early results: Test Series D, Phase 1 of the small-scale seal performance tests
- 934 | Density enhancement of polyethylene solidified wastes. Thickening with sodium sulfate anhydride

935 | Classification of lithological units based on geophysical borehole
logging - data from the Stripa mine

936 | Aqueous corrosion of borosilicate glasses nature and properties of
alteration layers

937 | Proceedings of the 1980 DOE statistical symposium TI <Augmentation>
Lead Abstract

938 | Advances in the study of far-field phenomena affecting repository
performance

939 | Preclosure monitoring and performance confirmation at Yucca Mountain:
Applicability of geophysical, geohydrological, and geochemical methods

940 | Theory and application of the PORFLOW model for analysis of coupled
flow, heat, and radionuclide transport in porous media Coupled
processes associated with nuclear waste repositories

941 | Coupled triaxial testing of rock salt specimens Coupled processes
associated with nuclear waste repositories

942 | THAC-SIP-3D: a three-dimensional, transient heat analysis code using
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944 | Hydrolytic resistance of glass obtained by the vitrification of
low-level waste arising in Czechoslovak nuclear power plants and other
properties of the product - planned experiment

945 | Measurement of thermal conductivity and thermal expansion at elevated
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946 | Acid-leaching of alkoxide-route Synroc precursor powders

947 | Impurities in rock-salt: consequences for the temperature increases at
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948 | Analysis and predictions of water and solute transport in a large
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949 | Low and medium level waste forms: guidelines and related research

950 | In situ investigations at Avery Island Proceedings of workshop on
thermomechanical-hydrochemical modeling for a hardrock waste
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951 | Thermomechanical assessment of in situ heater tests in DOE salt at
Avery Island, Louisiana

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with iminodiacetic acid (IDA) functional group for treatment of
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(Plutonium - 50 years) (held at Bombay during February 4-7, 1991):
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formation temperatures and improved leach resistance - a practical
approach

954 | 1984 EC Enquiry into the Needs for Nuclear Reference Materials (Z > 89)

955 | Method for qualification of cementation process and its application to a vibration mixer Proceedings of the Seminar on Management Options for Low and Intermediate Level Wastes in Latin America

956 | Durability, mechanical, and thermal properties of experimental glass-ceramic forms for immobilizing ICPP high-level waste

957 | Incorporation of ashes of radioactive waste combustion in clay-based ceramic matrices

958 | Some aspects of regional flow of variable-density groundwater in crystalline basement rock of Sweden

959 | Comparison and evaluation of field and numerical results from the Site A heater test at Avery Island

960 | Parametric study involving thermo/viscoelastic analyses of a room and pillar configuration

961 | Preliminary thermomechanical analyses of a conceptual nuclear waste repository at four salt sites

962 | Fabrication and characterization of MCC approved testing material - ATM-8 glass

963 | A system for measuring moisture transients in clay-based barrier materials Proceedings of high level radioactive waste management

964 | Characterization of R7T7 LWR reference glass Requirements for waste acceptance and quality control. Proceedings <Original Series/Collective> BfS Schriften

965 | Recycle stream impacts on feed treatment flowsheets and glass formulation for the Hanford Waste Vitrification Plant

966 | Radiation effects in crystalline high-level nuclear waste solids Scientific basis for nuclear waste management. Volume 3

967 | Self-radiation damage in actinide host phases of nuclear waste forms

968 | FY-87 packing fabrication techniques (commercial waste form) results

969 | Geochemical constraints on the microbial contamination of a hypothetical UK deep geological repository

970 | Evaluation of strategies for controlling HWVP (Hanford Waste Vitrification Plant) glass by process simulation

971 | Immobilization of krypton in a metallic matrix <Augmentation> Electron and gamma radiation

972 | Fission Product Plateout and Liftoff in the MHTGR Primary System: A Review TI <NOTE> Technical rept

973 | Chemical waste/nuclear waste disposal -- is there a difference. Waste isolation in the U.S. and elsewhere, technical programs and public communications. Vol 1. General

974 | Soil physical properties at the Las Cruces trench site

975 | Soil Characterization Methods for Unsaturated Low-Level Waste Sites

976 | Effects of radiolysis, radiation damage and waste/martix interaction.

977 | Electrical resistivities of glass melts containing simulated SRP waste sludges TI <Augmentation> For melter design

978 | Determination of formation heterogeneity at a range of scales using novel multi-electrode resistivity scanning techniques Disposal of Radioactive Waste

979 | Vitrification of TRU wastes at Rocky Flats Plant

980 | Adjoint sensitivity analysis of the thermomechanical behavior of repositories Waste isolation in the U.S., technical programs and public education. Vol. 1

981 | A direct speciation of Cm(III) in natural aquatic systems by time resolved laser-induced fluorescence spectroscopy (TRLFS) Chemical effects in the mine structure. Proceedings TI Chemische Effekte im Grubengebäude. Vortraege

982 | Pressure and density measurements of selected fluid-bearing zones at the Waste Isolation Pilot Plant (WIPP) Waste management 86. Volume 2: High-level waste

983 | Effect of hot-pressing conditions on the properties of iodide sodalite

984 | Spectrophotometric determination of uranium in nuclear waste

985 | Waste characterization plan for the Hanford Site single-shell tanks. Revision 1

986 | Waste characterization plan for the Hanford Site single-shell tanks

987 | Progress with field investigations at Stripa

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991 | Preparation and characterisation of Synroc precursor powders.

992 | Accelerated irradiation testing of synroc and its constituent minerals using fast neutrons

993 | Adsorption and heat transfer characteristics in krypton-85 storage cylinder filled with adsorbent

994 | Immobilization of medium-level waste at Tokai Reprocessing Plant Spectrum '86: Proceedings: Volume 1

995 | Immobilization of radioactive wastes in hydrothermal synthetic rock, 3. Properties of waste form containing simulated high-level radioactive waste

996 | Migration chemistry and behaviour of iodine relevant to geological disposal of radioactive wastes - a literature review with a compilation of sorption data

997 | Some reconnaissance-type electrical surveys of Timber Mountain Caldera, Nye County, Nevada

998 | Preparation and testing of hydrated cement samples for immobilization of simulated medium active waste

999 | Static leach tests of simulated MLW conditioned in cement

1000 | Savannah River Plant Environmental Report: Volume 2, Annual Report for 1986

1001 | Fracture detection using subsurface electromagnetic techniques Rock mechanics: Proceedings of the 28th U.S. symposium

1002 | The recovery of neptunium, plutonium and americium from high active waste by TRPO extraction American Chemical Society, Division of Nuclear Chemistry and Technology

1003 | First phase of small diameter heater experiments in tuff TI <Augmentation> NNWSI project

1004 | Conceptual design of field experiments for welded-tuff rock-mechanics program

- 1005 | Summary of geochemical measurements taken in and around the G-Tunnel underground facility, NTS
- 1006 | Geoengineering characterization of welded tuffs from laboratory and field investigations Scientific basis for Nuclear Waste Management VIII
- 1007 | G-tunnel welded tuff mining experiment preparations
- 1008 | Survey of microbial degradation of asphalts with notes on relationship to nuclear waste management
- 1009 | Resolution-enhanced reflectance spectroscopy of nuclear waste glass Nuclear waste management II TI <Series/Collective> Advances in ceramics. Volume 20
- 1010 | Simulation of heat transfer in the unsaturated zone TI <Augmentation> Yucca Mountain Project
- 1011 | FEHMN 1.0: Finite element heat and mass transfer code TI <Augmentation> Yucca Mountain Project

SEARCH NO 2: INDIVIDUAL PHYSICAL PARAMETER

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Database Search Service
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- 1 : Tank 241-A-105 leak assessment
- 2 : The Yucca Mountain Project Prototype Testing Program TI <Augmentation> Yucca Mountain Project
- 3 : Stripa Project. Annual report 1986
- 4 : Thermocouple tree system installation and operation in non-leaking ferrocyanide tanks, Hanford Site, Richland, Washington
- 5 : WIPP waste characterization program sampling and analysis guidance manual
- 6 : Compas project stress analysis of HLW containers intermediate testwork
- 7 : Compas project stress analysis of HLW containers: behaviour under realistic disposal conditions
- 8 : Analyzing surface coatings in situ: High-temperature surface film analyzer developed TI Technology '90. Accomplishments in technology transfer from DOE and its laboratories
- 9 : Geotechnical Field Data and Analysis Report, July 1987--June 1988
- 10 : Empirical pillar design methods review report: Final report
- 11 : Single-hole permeability test procedure: Final draft
- 12 : Salt Repository Project site study plan for meteorology/air quality: Revision 1
- 13 : Low level waste management handbook series: Environmental monitoring for low level waste disposal sites
- 14 : Lasers to detect radioactive leaks
- 15 : Pumping test and fluid sampling report - Mansfield No. 1 (PD-4) well, Palo Duro Basin, Texas: unanalyzed data TI <Augmentation> Permian Basin, Texas
- 16 : Rock mass and shaft concrete lining temperature measurement procedure: Final draft

17 | Report of liquid permeability measurements on rock core samples from Mansfield No. 1 Well, Permian Basin project

18 | Geochemistry and petrology of surface samples, six boreholes and brines from the Salton Sea geothermal field: A natural analog of a nuclear waste repository in salt: Report No. 3

19 | Report of liquid permeability measurements on rock core samples from Detten No. 1 Well, Permian Basin Project

20 | Boring and instrument installation DWPF salt disposal site

21 | Trial storage of high-level waste cylinders in the Asse II salt mine. Final report 1977/1978

22 | Permeability data base: Palo Duro Basin - Texas, Oklahoma, and New Mexico - unanalyzed data

23 | International 'Dawson' Symposium on the Physics of Plasmas

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25 | Evaluation of radon emissions and potential control requirements: For the Weldon Spring Site Remedial Action Project, Weldon Spring, Missouri. Revision 2

26 | Ergebnisbericht ueber Forschungs- und Entwicklungsarbeiten 1986. (Summarizing report on research and development activities in 1986)

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29 | Extended Abstracts. The Electrochemical Society Fall Meeting (174th) Held in Chicago, Illinois on 9-14 October 1988. Volume 88-2

30 | In-situ permeable flow sensor

31 | Fusion Reactor Materials: Semiannual Progress Report for the Period Ending March 31, 1989

32 | Fusion Reactor Materials Semiannual Progress Report for the Period Ending September 30, 1988

33 | Hydrogeologische, geohydraulische und geothermische Untersuchungen an geplanten Standorten fuer die Endlagerung radioaktiver Abfaelle. Teilprojekt 3: Geothermik. Abschlussbericht. (Hydrogeological, geohydraulic and geothermal studies on projected sites for final storage of nuclear waste. Sub-project 3. Geothermal studies. Final report)

34 | DOT-BPMD; Nonlinear Heat Transfer 2d Structure TI <NOTE> Software

35 | Measurement of Low Permeabilities and of Pinpoint Hydraulic Load Variations as a Function of Depth in Crystalline Formations

36 | Heat Transfer Investigations within Dry Spent Fuel Casks. Final Report for the Period 1 November 1981-31 March 1986

37 | Results of Repository Conditions Study for Commercial and Defense High-Level Nuclear Waste and Spent Fuel Repositories in Salt

38 | <English> STFL0; a finite-element code for steady-state flow in porous media

39 | <English> SWENT; a three-dimensional finite-difference code for the simulation of fluid, energy, and solute radionuclide transport

40 | STAFAN: a two-dimensional code for fluid flow and the interaction of fluid pressure and stress in fractured rock for repository performance assessment

41 | Review of Existing Instrumentation and Evaluation of Possibilities for Research and Development of Instrumentation to Determine Future Levels of Radon at a Proposed Building Site

42 | <English> MATLOC; a two-dimensional and axisymmetric nonlinear finite-element transient thermal stress analysis code for rock masses that exhibit bilinear locking behavior

43 | <English> VISCOT; a two-dimensional and axisymmetric nonlinear transient thermoviscoelastic and thermoviscoplastic finite-element code for modeling time-dependent viscous mechanical behavior of a rock mass

44 | Cermets and method for making same

45 | IN SITU CHARACTERIZATION OF THE HIGH-LEVEL WASTE SLUDGE AT WEST VALLEY.

46 | The influence of bentonite on the permeability of sandy silts

47 | Flow and tracer experiments in crystalline rocks. Results from several Swedish in situ experiments Coupled processes affecting the performance of a nuclear waste repository. Proceedings

48 | Migration in a single fracture in granitic rock. Scientific basis for nuclear waste management VII TI <Series/Collective> Materials Research Society symposia proceedings, Volume 26

49 | Melt refining method for uranium contaminated steels and copper Waste management '85: waste isolation in the US technical programs and public participation. Volume 3. General interest

50 | Development of high-temperature UV-VIS-NIR spectroscopy for the measurement of free energies of complexation at elevated temperatures

51 | Radioactive Emanations in Fumarole Gases of a Series of Volcanoes in Kamchatka

52 | <English> Statistical analysis of granite pore size distribution data, Lac du Bonnet Batholith, eastern Manitoba TI <French Translation> Etude par la methode statistique des donnees de la distribution du diametre des pores dans le granite, batholite du lac du Bonnet, Est du Manitoba

53 | Overview of geologic and geohydrologic conditions at the Finnsjoen site and its surroundings

54 | Lateritic minerals for decontamination of radionuclides

55 | Neptunium migration involving oxidation-reduction reactions in engineered barriers Proceedings of the third international symposium on advanced nuclear energy research

56 | Gamma-ray emission tomography examination of TMI-2 core samples

57 | Establishment of new disposal capacity for the Savannah River Plant Proceedings of the eight annual DOE low-level waste management forum: Technical Session 8, Future DOE low-level waste management

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61 | Method of and apparatus for the treatment of radioactive waste water from nuclear power plants

62 | Method of treating radioactive waste water

63 | <English> A finite element model to predict the flow of underground contaminants due to leakage of chemical and/or radioactive material from a buried containment

64 | Development of a computer program for calculation of flow velocity in the borehole and hydraulic conductivity of the formation. Final report for the period 1 July 1982-30 June 1983 TI <Augmentation> Labelled Slug Test (LST) method program

65 | Rock Property Measurements on Large-Volume Core Samples from Yucca Mountain USW GU-3/G-3 and USW G-4 Boreholes, Nevada Test Site, Nevada

66 | Dissolved helium, inert gases, radium and radon in groundwaters from the Altnabreac research site

67 | Evaluating the effect of sampling and spatial correlation on ground-water travel time uncertainty coupling geostatistical, stochastic, and first order, second moment methods Geostatistical, sensitivity, and uncertainty methods for ground-water flow and radionuclide transport modeling. Proceedings

68 | Filtration of gaseous effluents from a furnace for smelting contaminated metals Gaseous effluent treatment in nuclear installations. Proceedings of a European conference held in Luxembourg

69 | Temperature indicating device

70 | Stress analysis of HLW containers. Compas project

71 | Directory of computer codes suitable for stress analysis of HLW containers - Compas project

72 | Volume calibration and instrument testing at ENEA (Italian Commission for Alternative Energy Sources) central research laboratory (Casaccia, Italy)

73 | Fission Gas and Iodine Release Measured in IFA-430 Up to 15 Gwd/T UO sub 2 Burnup

74 | Dungeness 'B' Nuclear Power Station. Flow Investigations of the I.F.D. Cell and I.F.D. Scavenge Cyclone Assemblies and Efficiency Test of a Production Unit

75 | Numerical simulation of drift response in rock salt resulting from the emplacement of RH-TRU (Remote Handled TRansUranic) waste in an array of horizontal long boreholes in a separate panel at the WIPP (Waste Isolation Pilot Plant)

76 | INFLUENCE OF WASTEFORM PERMEABILITY ON THE RELEASE OF RADIONUCLIDES FROM A REPOSITORY.

77 | NAMMU user guide

78 | Validation of TEMP: A finite line heat transfer code for geologic repositories for nuclear waste

79 | <English> Residual streses and stress corrosion effects in cast steel nuclear waste overpacks

80 | Temperature field due to multipass welding of radioactive waste containers

- 81 | The Hydrogen Program: The present understanding of cyclic venting tanks
- 82 | Modelling fluid flow in fractured-porous rock masses by finite-element techniques
- 83 | A physico-chemical characterisation technique for determining the pore-water chemistry in argillaceous rocks
- 84 | Calibration of mathematical models for simulation of thermal, seepage and mechanical behaviour of boom clay
- 85 | Radiometric emanation method for monitoring morphology and porosity changes during radwaste cementation.
- 86 | A study of the characteristics of very deep granite: Test in underground laboratories and using boreholes Radioactive waste management and disposal
- 87 | Techniques Used in Hydrogeological Studies and Interpretation of the Results Obtained
- 88 | <English> Temperature and saturation effects on diffusion of carbon dioxide through tuff
- 89 | Preliminary site investigation for the HOCUS experiment HOCUS cruise report
- 90 | Sequence of onboard operation HOCUS cruise report
- 91 | Glass composition effects on the results of MCC-1, MCC-3 and pulsed-flow leach tests
- 92 | Thermocouple placement and hot spots in radioactive waste tanks
- 93 | Instrumentation concepts for nuclear waste glass melters Waste management '85: waste isolation in the US, technical programs and public education. Volume 1. Waste policies and programs, high-level waste: proceedings
- 94 | Measure of water transfers by diffusion and permeation through materials
- 95 | Interpretation of the WIPP-13 multipad pumping test of the Culebra Dolomite at the Waste Isolation Pilot Plant (WIPP) site
- 96 | Evaluation of excavation effects on rock-mass permeability around the waste-handling shaft at the WIPP site Excavation response in geological repositories for radioactive waste Proceedings of an NEA Workshop
- 97 | Development of the county database: Estimates of exposure rates and times of arrival of fallout in the ORERP Phase-2 area. Comparison with cumulative deposition-density estimates based on analyses of retrospective and historical soil samples
- 98 | 25 years of actinide research at the European Institute for Transuranium Elements Fifty years with nuclear fission. Volume 1
- 99 | Detection and speciation of transuranium elements in synthetic groundwater via pulsed-laser excitation
- 100 | Method of removing radioactive waste from oil
- 101 | Factors affecting interaction of radiostrontium with river sediments
- 102 | Analysis methods for offsite transport hazards
- 103 | In-situ air permeability measurements in mine overburden heaps
- 104 | National soils conference: abstracts
- 104 | Scoping experimental analysis of factors affecting cask contamination weeping. Extended abstract
- 105 | Falcon seminar, Winfrith Technology Centre, 27 - 28 June 1989

106 | Chemical composition of ground water and the locations of permeable zones in the Yucca Mountain area, Nevada <Original Series/Collective> USGS Open-File Report 83-854

107 | Thermal Analysis of the WIPP (Waste Isolation Pilot Plant) in Situ Room Al DHLW (Defense High-Level Waste Container) Package Experiments

108 | Fire protection measures in a repository for radioactive wastes

109 | <English> Radiation dose deposition and colloid formation in a rock salt waste repository

110 | Concentration of chromate ions on V sub 2 O sub 5 - a radioindicator sorption study (Preprint no. AR-29) International symposium on radiochemistry and radiation chemistry (Plutonium - 50 years) (held at Bombay during February 4-7, 1991): Preprints volume

111 | First Atmospheric Diffusion Experiment Campaign at the Angra Site - Measured Data

112 | Characterization of borosilicate glass-containing Savannah River Plant radioactive waste: MCC-1 tests and durability in geologic repository groundwaters Geochemical behavior of disposed radioactive waste TI <Series/Collective> ACS symposium series 246

113 | Test methods for selection of materials of construction for high-level radioactive waste vitrification. Revision

114 | Test methods for selection of materials of construction for high-level radioactive waste vitrification Nuclear waste management II TI <Series/Collective> Advances in ceramics. Volume 20

115 | Control of radioactive waste-glass melters. Part 2, Residence time and melt rate limitations

116 | Control of radioactive waste-glass melters

117 | Studies on neptunium(V) carbonate complexes under geologic repository conditions

118 | Permeability of different materials to radon (222Rn) gas TI <NOTE> Report no. MRL 91-153(TR)

119 | Drying Analysis of a Multiphase, Porous-Flow Experiment in Fractured Volcanic Tuff

120 | Temperature distribution in WP-Cave when shafts are filled with sand/water mixture SKB WP-Cave project

121 | Methodology for determining time-dependent mechanical properties of tuff subjected to near-field repository conditions

122 | <English> Borehole gravity surveying, current instrumentation, capabilities and applications TI <French Translation> Diographies gravimetriques, instruments actuels, possibilites et applications

123 | Heat Source Probe for Measuring Thermal Conductivity in Waste Rock Dumps

124 | The Joint Empirical Model---an equivalent continuum model for jointed rock masses TI <Augmentation> Yucca Mountain Project

125 | Numerical analyses of the G-Tunnel small-diameter heater experiments

126 | Thermal Conductivity Measurement in Italian Clay Samples: Needle Probe Method

127 | Application of Integral Methods to Prediction of Heat Transfer from a Nuclear Waste Repository

128 | <English> Distribution of downward flux in unsaturated heterogeneous hydrogeology TI <French Translation> Distribution de flux descendants en hydrogeologie en zone non saturee heterogene

129 | SWISS: Sustained heated metallic melt/concrete interactions with overlying water pools

130 | Numerical model of contaminant transport through conduit-porous matrix system

131 | Shear of a clay-embedded waste canister.

132 | Modelling of buffer material behaviour. Some examples of material models and performance calculations

133 | Studies of soil gas, gas generation, and shallow microbial activity at Mallard North Landfill, Dupage County, Illinois

134 | Miniature chemical optical fiber sensors for pH measurements

135 | The HADES demonstration and pilot project on radioactive waste disposal in a clay formation

136 | <English> Grouting of fractures using oscillating pressure TI <French Translation> Injection dans des fractures a l'aide de la methode de la pression oscillante

137 | Incineration method for volume reduction and disposal of transuranic waste Waste management '85: waste isolation in the US technical programs and public participation. Volume 3. General interest

138 | An interim report on excavation effect studies at the Waste Isolation Pilot Plant: The delineation of the disturbed rock zone

139 | Measurement of the Specific Resistance of Vitrified Highly-Active Waste

140 | Overview of chemical modeling of nuclear waste glass dissolution TI <Augmentation> Yucca Mountain Project

141 | Fracture Hydrology Relevant to Radionuclide Transport. Field Work in a Granite Formation in Cornwall TI <NOTE> Final rept.

142 | Cornish heat transfer experiment - final report

143 | Heat transfer experiment in a granite formation at Cornwall

144 | Anwendung der Tieftemperatur- und Filtertechnik fuer die Rueckhaltung von Edelgasen, Aerosolen, Jod und Feststoffen am Beispiel des Abgassystems bei Leichtwasserreaktoren unter Beruecksichtigung der besonderen Anforderungen an Sicherheit, Verfuegbarkeit und Strahlenschutz. (Use of low-temperature and filter techniques for the retention of rare gases, aerosols, iodine and solid materials taking as example the off-gas systems of light-water reactors with regard to the special requirements on safety, availability and radiation protection)

145 | Magnox dissolution in carbonated water. A method for the separation and disposal of magnox from fuel element debris waste Water chemistry of nuclear reactor systems 3 vol. 1. Proceedings of an international conference organised by the British Nuclear Energy Society and co-sponsored by the Institution of Chemical Engineers and the Royal Society of Chemistry, Bournemouth, 17-21 October, 1983

146 | Permeability measurements in crystalline rocks and sandstone

147 | Diffusion and permeability based sorption measurements in intact rock samples

148 | Participation of the Federal Republic of Germany in the Grimsel underground rock laboratory in Switzerland: Objectives and methods of in-situ experiments in granite for radioactive waste disposal Siting, design and construction of underground repositories for radioactive wastes. Proceedings of an international symposium held in Hannover, 3-7 March 1986 TI <Series/Collective> Proceedings series

149 | Limits of high-efficiency particulate air filter operation under high temperature conditions Proceedings of the 19th DOE/NRC nuclear air cleaning conference

150 | Groundwater movement through mudrocks - measurement and interpretation

151 | Comparative study of test methods for conditioned low- and medium-level radioactive waste. Progress report covering the period 1.1 to 31.12 1984

152 | HANDLING AND TRANSPORT SYSTEM USED FOR SPENT FUEL FROM THE THTR 300 MW NUCLEAR POWER STATION.

153 | On groundwater travel times in granite and gneiss Proceedings of the Canadian Nuclear Society 2. international conference on radioactive waste management

154 | Estimation of Heavy Metal Concentration in FBR Reprocessing Solvent Streams by Density Measurement

155 | Bereitstellung gesicherter Sorptionsdaten fuer Technetium.
Berichtszeitraum: 1.1.1986 - 30.6.1987. Schlussbericht. (Collection of verified sorption data on technetium. Reported period: January 1, 1986 - June 30, 1987. Final report)

156 | Cesium chloride compatibility testing program: Final report

157 | Effects of heterogeneity on actinide diffusion rates in tuffaceous rock

158 | Development of a Sanded Nonsalt Expansive Grout for Repository Sealing Application TI <NOTE> Final rept.

159 | Development of a Sanded Expansive Salt Grout for Repository Sealing Application TI <NOTE> Final rept.

160 | Electrical technique for in-place stabilization of contaminated soils

161 | Thin Plastic Radiochromic Dye Films as Ionizing Radiation Dosimeters TI <NOTE> Final rept.

162 | Measurements of ¹³⁷Cs Diffusion Coefficients in an Epoxy Resin

163 | Elastic properties of dry, highly porous tuffs Rock mechanics: Proceedings of the 28th U.S. symposium

164 | Spent Fuel Test-Climax mineby revisited

165 | Thermomechanical scoping calculations for the waste package environment tests TI <Augmentation> NNWSI

166 | Interpretation of hydraulic testing at the Weiach borehole

167 | Glass former composition and method for immobilizing nuclear waste using the same

168 | Incineration of radioactive waste TI A system for one-line measurement of gaseous multicomponents Incineration conference 1990

169 | Comparison of rheological evaluation techniques and turbulent flow prediction of a simulated nuclear waste melter slurry

170 | Triaxial cell and permeameter equipment and facility safety analysis report

171 | Spent Fuel Test-Climax: technical measurements data management system description and data presentation TI <Augmentation> NNWSI program

172 | Cerenkov spectroscopic assay of fission isotopes Pt. 3. A study on the influence of pH and sodium concentration on the uptake of ¹³⁷Cs; ⁹⁰Sr and ⁹⁰Y onto zeolites Articles

173 | Method to Enhance Porosity of Micro-particles TI <NOTE> Final rept

174 | Experience with high-temperature filtration of incinerator flue gases Incineration conference 1990

- 175 | Thermomechanical analysis of some proposed schemes for radioactive waste disposal Numerical methods in geomechanics
- 176 | Quarterly report on Defense Nuclear Facilities Safety Board Recommendation 90-7
- 177 | Action plan for response to abnormal conditions in Hanford Site radioactive waste tanks containing ferrocyanide
- 178 | Action plan for response to abnormal conditions in Hanford Site radioactive waste tanks containing ferrocyanide. Revision 1
- 179 | In situ testing and corrosion monitoring in a geological clay formation Design and instrumentation of in situ experiments in underground laboratories for radioactive waste disposal. Proceedings TI La conception et l'instrumentation d'expériences in situ en laboratoires souterrains pour l'évacuation des déchets radioactifs.. Comptes-rendus
- 180 | Development and implementation of methods for mass and volume measurements in input solutions
- 181 | Depollution of some radioactive residual waters on ceramic materials
- 182 | Actinide separations by high pressure cation exchange - the neptunium case New separation chemistry techniques for radioactive waste and other specific applications
- 183 | Separation of actinides with alkylpyridinium nitrates New separation chemistry techniques for radioactive waste and other specific applications
- 184 | Caesium decontamination from MTR waste solution New separation chemistry techniques for radioactive waste and other specific applications
- 185 | Application of crown-ethers to caesium and strontium removal from Marcoule reprocessing concentrate New separation chemistry techniques for radioactive waste and other specific applications
- 186 | Highly selective and micellar extraction of uranyl and alkaline-earth cations New separation chemistry techniques for radioactive waste and other specific applications
- 187 | The TRUEX process: a vital tool for disposal of U.S. defense nuclear waste New separation chemistry techniques for radioactive waste and other specific applications
- 188 | Comparison between CMPO and DHDECMP for alpha decontamination of radioactive liquid waste New separation chemistry techniques for radioactive waste and other specific applications
- 189 | Actinides removal by means of octyl(phenyl)-N,N-diisobutyl carbamoyl methyl phosphine oxide (CMPO) sorbed on silica New separation chemistry techniques for radioactive waste and other specific applications
- 190 | Separation of Am, Eu and Ce from liquid wastes with CMPO by extraction chromatography New separation chemistry techniques for radioactive waste and other specific applications
- 191 | Physico-Chemical Investigations in Relation with the Tritium Circuit in Fusion Reactors
- 192 | Time-temperature dissolution and radionuclide transport
- 193 | In situ stress determination by the overcoring of large surface strain gauge rosettes on the walls of a raise-bored shaft at the Underground Research Laboratory

194 | Abyssal plains^ Potential sites for nuclear waste disposal
Environmental geotechnology TI <Series/Collective> Volume 1

195 | 3-D finite element analysis of thermal model of multi-heater in-situ
experiment

196 | Coupled stiffness-permeability analysis of a single rough surfaced
fracture by the three-dimensional boundary element method

197 | Neutronics studies for the ARIES-I reactor

198 | Thermoviscoelastic stress problems by the Lanczos-Chebyshev method

199 | Verification of NAMMU using HYDROCOIN Level 1 Case 4: transient
thermal convection in a saturated permeable medium

200 | Transient nonsimilarity nonlinear heat diffusion solutions.

201 | Thermal Calculus of Packagings for Long Lasting Fires

202 | Codisposal of diminimus levels of low-level radioactive waste and
sanitary waste: Final report

203 | Materials Research Society Symposium on the Electrical, Optical and
Magnetic Properties of Organic Solid State Materials. Held in Boston
Massachusetts on November 27-December 2, 1989 TI <NOTE> Final rept

204 | Development of a new powdered resin for water purification in nuclear
power plants Waste management '88 TI <Series/Collective> Volume I:
Low-level waste

205 | <English> Radiochemical determination of technetium-99 in LLW by
chelation with sodium diethyl dithiocarbamate (NaDDC) and extraction
with chloroform

206 | Thermal effects of electrically conductive deposits in melter

207 | Laboratory analysis of fluid flow and solute transport through a
variably saturated fracture embedded in porous tuff

208 | Repository environmental parameters and models/methodologies relevant
to assessing the performance of high-level waste packages in basalt,
tuff, and salt

209 | Repository tunnel construction in deep clay formations

210 | Stochastic analysis of ground water travelttime for long-term
repository performance assessment Scientific basis for nuclear waste
management VII TI <Series/Collective> Materials Research Society
symposia proceedings, Volume 26

211 | Stochastic Groundwater Travelttime Modeling Using a Monte Carlo
Technique

212 | Testing nuclear-grade gas-phase iodine adsorbents

213 | Method for keeping RBOF waste within EPA pH limits for nonhazardous
waste

214 | Colorimetric determination of Fe sup 2+ /Fe sup 3+ ratio in
radioactive glasses

215 | Method for making a low density polyethylene waste form for safe
disposal of low level radioactive material PA Dept. of Energy AN US
6-617660

216 | Analysis and evaluation of a radioactive waste package retrieved from
the Atlantic Ocean Radioactive wastes and the ocean TI
<Series/Collective> Wastes in the ocean. Vol. 3

217 | Quantitative approach to exchange phenomena between low temperature hydrothermal solutions and granitic rocks: methodology and preliminary studies in the Entraygues granite Natural analogues in radioactive waste disposal. Proceedings of a symposium organised by the CEC and held in Brussels, BE, on 28-30 April 1987 <Original Series/Collective> Radioactive Waste Management Series

218 | The CEC benchmark interclay on rheological models for clays results of pilot phase (January-June 1989) about the boom clay at Mol (B)

219 | Computer modelling of stresses in rock. Proceedings of a technical session

220 | Application of speckle metrology at a nuclear waste repository.

221 | A casting and imaging technique for determining void geometry and relative permeability behavior of a single fracture specimen

222 | Asse salt mine nuclear waste repository simulation experiments

223 | Asse (Federal Republic of Germany) Salt Mine Nuclear Waste Repository Simulation Experiments

224 | Brine migration test report: Asse Salt Mine, Federal Republic of Germany: Technical report

225 | Nuclear Waste Repository Simulation Experiments (Brine Migration), Asse Mine of the Federal of Germany: Quarterly Brine Migration Data Report, July-September 1984

226 | Quarterly brine migration data report, May-September 1983: Nuclear Waste Repository simulation experiments (brine migration), Asse Mine of the Federal Republic of Germany

227 | Localized corrosion of a candidate container material for high-level nuclear waste disposal.

228 | The calculated effects of isothermal boiling on tuff-water interactions

229 | Analytical methods and problems for the diamides type of extractants

230 | Comparisons of COBRA-SFS Calculations with Data from Simulated Sections of Unconsolidated and Consolidated BWR Spent Fuel. Final Report

231 | Characterization of the subregional ground-water flow system of a potential site for a high-level nuclear waste repository

232 | <English> On the diffusion of SUP 9 SUP 0 Sr from radioactive waste bituminized by the mould method

233 | Hydrological properties of Topopah Spring tuff: Laboratory measurements

234 | Rheological measurements on cement grouts

235 | Development of high temperature and pressure zirconia-based pH sensors High-level nuclear waste disposal

236 | Development of high temperature and pressure Eh and pH sensing instruments Scientific basis for nuclear waste management VII TI <Series/Collective> Materials Research Society symposia proceedings, Volume 26

237 | Parametric study and sensitivity analysis for subsurface thermal problems.

238 | Ice technology for hazardous waste management.

239 | Post-accident sampling systems and analysis techniques

240 | Components of an overall performance assessment methodology

241 | Action plan for response to excessive temperature in high heat source waste tank 241-C-106 at the Hanford Site

242 | R7T7 glass initial dissolution rate measurements using a high-temperature Soxhlet device

243 | Safety analysis related to the possible release of activated erosion dust in fusion reactors Fusion technology 1986

244 | In-situ pore-pressure measurements for a detailed geotechnical assessment of marine sediments TI State of the art Geotechnical engineering of ocean waste disposal

245 | Recommendations to the NRC (Nuclear Regulatory Commission) for Review Criteria for Alternative Methods of Low-Level Radioactive Waste Disposal. Task 2B. Earth-Mounded Concrete Bunkers TI <NOTE> Final rept.

246 | Recommendations to the NRC (Nuclear Regulatory Commission) for Review Criteria for Alternative Methods of Low-Level Radioactive Waste Disposal. Task 2A. Below-Ground Vaults TI <NOTE> Final rept.

247 | Recommendations to the NRC (Nuclear Regulatory Commission) for review criteria for alternative methods of low-level radioactive waste disposal. Task 2a. Below-ground vaults. Final report

248 | Recommendations to the NRC (Nuclear Regulatory Commission) for review criteria for alternative methods of low-level radioactive waste disposal. Task 2B. Earth-mounded concrete bunkers. Final report

249 | Review of Materials for pH Sensing for Nuclear Waste Containment

250 | Contribution to the Study of Aerosol Aerodynamic Behaviour - Development of a Diffusional and Inertial Spectrometer (SDI 2000) TI <NOTE> These (D. es Sci.)

251 | Nevada Test Site field trip guidebook 1984

252 | Nevada Test Site Field Trip Guidebook 1984

253 | Review of fusion device fuel cleanup systems Fusion technology 1984. Proceedings of the thirteenth symposium. Conference centre of Villa Ponti, Varese, Italy, 24-28 September 1984. Volume 1 of 2

254 | Research of uranium tailing disposal by method of thickened disposal

255 | Liquid discharge to sea/rivers/lakes. The solubility of TBP/OK in aqueous media

256 | On-Line Liquid-Effluent Monitoring of Sewage at Lawrence Livermore National Laboratory

257 | One-line liquid-effluent monitoring of sewage at Lawrence Livermore National Laboratory Radiation - risk - protection. Vol. 2

258 | <English> IUGG Vol. 2Fluid flow in crystalline crust; detecting fractures by temperature logs TI <French Translation> Volume 2 de l'IUGG. L'ecoulement des fluides dans la croute cristalline; la detection des fractures par les logs de temperature

259 | Status report: numerical modeling of ground-water flow in the Paleozoic formations, western Paradox Basin, Utah

260 | Effect of surface finish on nuclear glass dissolution rate

261 | Storage Characteristics of Spent HTR Fuel Elements in Transport and Storage Containers of Modular Cast Iron

262 | Analyzing transport in low permeable fractured rock using the discrete fracture network concept Safety Assessment of Radioactive Waste Repositories

263 | Monte Carlo simulations of unsaturated flow through layered volcanic tuffs at Yucca Mountain, Nevada Water resources related to mining and energy - preparing for the future

264 | <English> An osmotic tensiometer for measuring pressure head in unsaturated fractured rock

265 | Three-Dimensional Thermal Analysis for the WIPP in Situ Test Room A2 Heater Configuration

266 | Analysis of a multiphase, porous-flow imbibition experiment in fractured volcanic tuff

267 | Effect of material heterogeneities on flow through porous media

268 | In-Situ Tuff Water Migration/Heater Experiment: Posttest Thermal Analysis

269 | Computer modeling of greater confinement disposal of radioactive waste at the Nevada Test Site

270 | Interim high level radioactive waste storage at the Idaho Chemical Processing Plant. Waste management '87: Waste isolation in the US, technical programs, and public education TI <Series/Collective> Volume 1 - General interest

271 | Integrated instrument platform for in situ characterization of tank wastes

272 | Integrated instrument platform for in situ characterization of tank wastes

273 | Quarterly brine migration data report, April-June 1984: Nuclear waste repository simulation experiments (brine migration), Asse Mine of the Federal Republic of Germany

274 | <English> Moisture movement in nonisothermal deformable media

275 | <English> Study of excavation induced rock damage at the Grimsel undergorund rock laboratory TI <French Translation> Etude de l'endommagement de la roche due a l'excavation, au laboratoire souterrain des roches de Grimsel

276 | Statistical methods for mechanistic model validation: Salt Repository Project

277 | Structural analyses and design of a concrete liner that limits the disturbed rock zone around underground openings in salt

278 | Replacement of chlorinated materials by nonchlorinated low-halogenated materials in nuclear power plants Incineration of low level and mixed wastes: 1986

279 | Alternative Waste Management Techniques for Spent Nuclear Fuel: Final Report: Continuation of Long-Term Leaching Tests at 200 deg C and Investigation of the Influence of Iron on Leaching

280 | Identification and characterization of hydrologic properties of fractured tuff using hydraulic and tracer tests, test well USW H-4, Yucca Mountain, Nye County, Nevada

281 | Experimental Technique for Sampling Saturated Brines from Autoclaves: Application to the System NaCl-H2O at 200 Degree C and 25 MPa: Salt Repository Project

282 | Experimental technique for sampling saturated brines from autoclaves: Application to the system NaCl-H₂O at 200/degree/C and 25 MPa: Salt Repository Project

283 | Analytical methods of heat transfer compared with numerical methods as related to nuclear waste repositories

284 | <English> Theoretical approximation to transient heat conduction in nuclear waste repositories TI <French Translation> Approximation theorie de la conduction transitoire de la chaleur dans des depots de dechets nucleaires

285 | Pneumatic permeability measurements in a fractured, partially saturated environment Proceedings of workshop 5: Flow and transport through unsaturated fractured rock -- related to high-level radioactive waste disposal

286 | Solubility of neptunium(IV) at high pH

287 | Role of measurement systems in burnup credit operations

288 | Waste glass melter numerical and physical modeling

289 | A method for predicting cracking in waste glass canisters

290 | Measurements of Uranium Mill Tailings Consolidation Characteristics TI <NOTE> Topical rept.

291 | Settlement of Uranium Mill Tailings Piles: A Comparison of Analysis Techniques

292 | Model assessment of protective barriers: Part 3

293 | TEMPERATURE-MEASUREMENT OF SPUTTERED METAL DIMERS

294 | Summary of geotechnical information in the Rattlesnake Mountain area

295 | A miniaturized sensor system for in situ robotic characterization of hazardous waste

296 | Miniaturized sensor system for in situ robotic characterization of hazardous waste

297 | Results of Temperature Test 6 in the Asse Salt Mine. Volume 1: Main Report. Volume 2: Appendix TI <NOTE> Topical rept.

298 | Measuring low fissile content concentration in radioactive liquid waste and solid waste packages Low and intermediate level radioactive waste management <Original Series/Collective> Volume 1

299 | Further characterization of the B-1023 furnace for use in hypothetical thermal accident testing of shipping containers in accordance with 10 CFR Part 71

300 | Polymeric diffusion as applied to a radioiodine off-gas monitor 17th DOE nuclear air cleaning conference: proceedings. Volume 2

301 | Savannah River Technology Center. Monthly report

302 | Untersuchung von Dichtsystemen und dichten Umschliessungen zum Transport und zur Lagerung radioaktiver Stoffe. Zwischenbericht 1986. (Investigation of sealing materials and tight enclosure systems with regard to transport and disposal of radioactive waste. Interim report 1986)

303 | Review of models in available nonisothermal 2-phase flow codes TI <Augmentation> Yucca Mountain Project.

304 | Study of Gas Movements in Soil by a Nuclear Method: Geophysical Application TI <NOTE> These (D. 3e Cycle)

305 | Technology update-86: Production technology and quality assurance

306 | Methodology for performing safety assessments for potential radioactive waste disposal facilities Radwaste '86: proceedings volume. Conference on the treatment and containment of radioactive waste, and its disposal in arid environments

307 | <English> A quantitative measure of model validation and its potential use for regulatory purposes TI <English> Special issue. Validation of geo-hydrological models. I

308 | 1. The application of PIE techniques to the study of the corrosion of spent oxide fuel in deep-rock groundwaters. 2. Spent fuel degradation

309 | Hanford protective barriers program: Status of asphalt barrier studies - FY 1989

310 | Laboratory measurement of radionuclide sorption in solid waste storage Area 6 soil/groundwater systems

311 | Process monitoring system for the V-W1 vitrification plant Lectures of the 6th status report on the project for reprocessing and waste treatment on March 13th/14th 1986

312 | Effects of sorption and temperature on solute transport in unsaturated steady flow Waste management 86. Volume 2: High-level waste

313 | Progress in development of an accelerated leach test for low-level radioactive waste forms Proceedings of the ninth annual DOE low-level waste management forum: Technical session 3, Performance assessment

314 | A finite element modeling method for predicting long term corrosion rates Corrosion '84 TI <Series/Collective> No. 199

315 | Hydrogeological characterization of the Stripa site Proceedings of the workshop on geological disposal of radioactive waste. In situ experiments in granite

316 | A comparison of measured porosity with that inferred from isotopic data and three-dimensional flow models In-situ experiments associated with the disposal of radioactive waste

317 | Decommissioning and reclamation of Beaver Lodge tailings: Evaluation of potential radionuclide and trace metal migration Management of uranium mill tailings, low-level waste and hazardous waste

318 | Transport of FBR Spent Fuels

319 | Accelerated test techniques for measuring SCC resistance of alloys Proceedings: 1986 workshop on advanced high-strength materials

320 | Coupled deformation and fluid-flow behavior of a natural fracture in the CSM in situ test block

321 | Storage and measurement demonstration of wastes containing conditioned tritium and radium sources Waste management '88 TI <Series/Collective> Volume I: Low-level waste

322 | Combined natural convection and surface radiation in the annular region between a volumetrically heated inner tube and a finite conducting outer tube Proceedings of high level radioactive waste management

323 | Pretreatment of Hanford PUREX Plant first-cycle waste

324 | Methodology for Computing Limiting Temperature to Control UO sub 2 Oxidation

325 | Methodology for computing limiting temperature to control UO/sub 2/oxidation

326 | Assessing the performance of engineered barriers and materials for confinement of low-level radioactive waste Proceedings of the ninth annual DOE low-level waste management forum: Technical session 3, Performance assessment

327 | Laboratory measurements of the solute transport properties of samples from the Bradwell, Elstow, Fulbeck and Killingholme site investigations

328 | Environmental Restoration Program: In Situ Vitrification Intermediate Scale Sampling and Analysis Plan

329 | SELECTION OF A MINIMUM FRACTURATION DENSITY AREA BY GEOSTATISTICS IN CRYSTALLINE ROCK.

330 | Impact of High-Level-Radioactive Wastes thermal output on repository design

331 | Climatological summary of wind and temperature data for the Hanford Meteorology Monitoring Network

332 | Review of Geological Criteria and Assessment Techniques Used for Site Investigations for Disposal of Radioactive Wastes in India

333 | Nondestructive testing of vitrified radioactive waste by computerized tomography TI <Original> Zerstoerungsfreie Pruefung verglaster radioaktiver Abfaelle mit Computertomographie

334 | Nondestructive testing of tomography by computerized vitrified radioactive waste.

335 | FTRANS; Radionuclide Transport Fractured Rock TI <NOTE> Software

336 | VISCOT; Rock Mass Viscous Mechanical Behavior TI <NOTE> Software

337 | MATLOC; Thermal Stress Bilinear Locking Rock TI <NOTE> Software

338 | UTAH2; Thermoplastic Response Anisotropic Rock TI <NOTE> Software

339 | MARS high temperature blanket

340 | Cataclastic effects in rock salt laboratory and in situ measurements

341 | A comprehensive upgrade of LLNL's (Lawrence Livermore National Laboratory's) wastewater control program

342 | High-temperature spectroscopy for nuclear waste applications Second international conference on methods and applications of radioanalytical chemistry. Abstracts

343 | Use of chaotic and random vibrations to generate high frequency test inputs. Part 1, the system

344 | Thermal measurements in large pool fires.

345 | Thermal Measurements in a Series of Large Pool Fires

346 | Dissolution of Th0 sub 2 , UO sub 2 and PuO sub 2 in Nitric Acid

347 | An irradiation facility for radiation damage investigations

348 | TITAN-I fusion-power-core engineering The TITAN reversed-field-pinch fusion reactor study. Final report, 1990: Volume 3, TITAN-I fusion power core

349 | GWHRT - A Finite Element Solution to the Coupled Ground Water Flow and Heat Transport Problem in Three Dimensions

350 | Tracer Investigation of the Atmospheric Dispersion in the Dyrnaes Valley, Greenland. A Study under the Uranium Project, Performed by Risoe National Laboratory and the Air Pollution Laboratory of the National Agency of Environmental Protection

351 | <English> 3D thermal stress analysis of WIPP Room T RU TRU experiments TI <French Translation> Analyse par un modele tridimensionnel des contraintes thermiques resultant des experiences RH TRU dans le sallet du site WIPP

352 | Wet abrasive particle impact cleaning as a nuclear decontamination technique Proceedings of the international meeting on nuclear and hazardous waste management

353 | Etude de l'extraction et de la purification de l'americium et des actinides trivalents contenus dans des effluents sur une installation fonctionnant a partir du principe des membranes liquides supportees (MLS). (Study of the extraction and the purification of americium and trivalent actinides contained in effluents with supported liquid membranes)

354 | FE3DGW

355 | Ultrafiltration

356 | Data Base for Basalt Methodology TI <NOTE> Rept. for Oct 82-May 83

357 | In-Situ Permeability Measurements in the Bedrock Surrounding
Underground Cavities, Using the Example of Konrad Mine

358 | In situ-Permeabilitaetsmessungen im Gebirge des ausbruchnahen
Bereiches von Einlagerungshohlraeumen am Beispiel der Schachtanlage
Konrad. (In-situ permeability measurements in the bedrock surrounding
underground cavities, using the example of Konrad mine)

359 | Electrical power supply and controls for a remotely operated glass
melter for nuclear waste

360 | Commercial Nuclear Waste Research and Development Program. Quarterly
report, April-June 1984

361 | Proof-of-principle measurements for an NDA-based core discharge
monitor

362 | Tennessee's East Fork Poplar Creek: A biological monitoring and
abatement program

363 | <English> Pillar design for mines in saltrock. II TI <French
Translation> Calcul des piliers pour les mines de sel II

364 | Progress report of the 600 m borehole project of the CEC programme on
management and storage of radioactive waste

365 | Evaluation of the experiments with the variable pressure device

366 | Drilling and Coring Methods That Minimize the Disturbance of Cuttings,
Core, and Rock Formation in the Unsaturated Zone, Yucca Mountain,
Nevada

367 | Tank farm surveillance and waste status summary report for August 1990

368 | Tank farm surveillance and waste status report for December 1990

369 | Tank farm surveillance and waste status summary report for November
1990

370 | Tank farm surveillance and waste status summary for October 1990

371 | Tank farm surveillance and waste status summary for September 1990

372 | Tank farm surveillance and waste status summary report for July 1990

373 | Measurement of sup 222 Rn and Its Relationship to Environmental
Variables: Factors Controlling Indoor Radon: Final Report for the
Contract Period June 1, 1982 to May 31, 1985

374 | <English> Trace metal migration transport with ion exchange for
multi-components and multi-substrates with application to radium
transport TI <French Translation> Le transport par migration des
metaux en traces avec echange d'ion pour elements multiples et
substrats multiples avec application au transport du radium

375 | Dresden-1 chemical cleaning results of chemical and radiation
measurements Proceedings of the technical symposium of Corrosion 86

376 | <English> Transport of gases in concrete barriers

377 | Uncertainties in predicting dust lofting: A review of available
literature

378 | Beanspruchungszustaende bei grossen Verformungen des Salzgebirges.
(Load conditions induced by large-size deformation of the salt rock)
TI <NOTE> Diss. (Dr.-Ing)

379 | Effects of fuel burn-up and cooling periods on thermal responses in a
repository for spent nuclear fuels

380 | Numerical studies of heat transfer and gas migration processes in
relation to in situ vitrification

381 | Leaching studies of sphene ceramics containing substituted
radionuclides

382 | Environmental corrections for a neutron-induced gamma-ray spectroscopy logging system in an air-filled borehole. Revision 1

383 | Development of an in situ method to define the rheological properties of slurries and sludges stored in underground tanks

384 | Improving feed slurry rheology by colloidal techniques

385 | Defense waste processing facility at Savannah River Plant. Instrument and power jumpers

386 | Flow measurement and control in the defense waste process

387 | A three-dimensional finite element analysis of the HAW test field with two heated holes

388 | Investigation of the porosity of rocks. Impregnation with (sup 14) C-polymethylmethacrylate (PMMA), a new technique

389 | Modeling of time-variant concrete properties at elevated temperatures

390 | Seismic transmission measurements in salt Design and instrumentation of in situ experiments in underground laboratories for radioactive waste disposal. Proceedings TI La conception et l'instrumentation d'expériences in situ en laboratoires souterrains pour l'évacuation des déchets radioactifs.. Comptes-rendus

391 | Verification of NAMMU using HYDROCOIN

392 | Coupled groundwater flow and solute transport with fluid density strongly dependent upon concentration

393 | Geochemische Vorgaenge bei der Flutung des Kalisalzbergwerkes Hope. Abschlussbericht des Teilvorhabens Geochemie des FE-Vorhabens Hope. Untersuchungen endlagerrelevanter Vorgaenge vor, während und nach der Flutung des Kalisalzbergwerkes Hope. (Geochemical processes observed during the flooding of the Hope potash salt mine. Final report of partial project 'geochemistry' of R and D project Hope. Examinations of processes relevant to final storage prior, during and after the flooding of the Hope potash salt mine)

394 | Areal power density: A preliminary examination of underground heat transfer in a potential Yucca Mountain repository and recommendations for thermal design approaches TI <Augmentation> YUCCA MOUNTAIN PROJECT

395 | <English> Field measurements in a multiple heater test to study the thermal and thermomechanical response of rock salt

396 | <English> Calculation and measurement of stress changes induced in a single-heater test in rock salt.

397 | Development of Mathematical Models from the Results of Laboratory Tests to Describe the Material Behavior of Rock Salt and Its Dependence on Time and Temperature Together with Calculations Based on Continuum Mechanics Using the Method of Finite Elements

398 | Korrosion von Eisen und Stahl in heißen Salzlauge. Schlussbericht. (Corrosion of iron and steel in hot salt brines. Final report)

399 | A comparison of measurements and calculations for the Stripa validation drift inflow experiment

400 | Bench-scale magnetic separation of Department of Energy wastes

401 | Summary of the Report of the Senior Committee on Environmental, Safety, and Economic Aspects of Magnetic Fusion Energy

402 | Unsaturated zone moisture and vapor movement induced by temperature variations in asphalt barrier field lysimeters

403 | Geologic mapping of the air intake shaft at the Waste Isolation Pilot Plant

404 | Benchmark Calculations with Code SWIFT to Check the Numerical Accuracy by Modelling the Groundwater Flow in a Fractured Permeable Medium.
HYDROCOIN, Level 1, Case 1

405 | Permeability of grouted fractures in granite.

406 | The SRES (Strontium Extraction) process American Chemical Society, Division of Nuclear Chemistry and Technology

407 | <English> Numerical computation of thermally induced fluid flow in underground top loading nuclear waste disposal chambers

408 | Scoping the monitoring instrumentation to meet repository design and construction needs Dynamic analysis and design considerations for high-level nuclear waste repositories

409 | Interpretation of in-situ pressure and flow measurements of the Salado Formation at the Waste Isolation Pilot Plant

410 | The tube-wave method of estimating in-situ rock fracture permeability in fluid-filled boreholes

411 | Electrochemical evaluation of solid state pH sensors for nuclear waste containment

412 | Active waste disposal monitoring at the Radioactive Waste Management Complex, Idaho National Engineering Laboratory

413 | Data acquisition system for monitoring nuclear waste vitrification

414 | Results and conclusions from rock mechanics/hydrology investigations: CSM/ONWI test site Proceedings of the workshop on geological disposal of radioactive waste. In situ experiments in granite

415 | VAM2D - Variable Saturated Analysis Model in Two Dimensions. Version 5.2 with Hysteresis and Chained Decay Transport. Documentation and User's Guide TI <NOTE> Technical rept. 29 Sep 89-31 Jul 91

416 | <English> Mathematical modeling of fluid flow and contaminant transport in fractured aquifers

417 | Methods for the shipboard determination of dissolved iron and manganese in samples of sediment interstitial water

418 | Plutonium diffusivity in compacted bentonite

419 | CASKETSS: A Computer Code System for Thermal and Structural Analysis of Nuclear Fuel Shipping Casks

420 | TRUMP3-JR: a Finite Difference Computer Program for Nonlinear Heat Conduction Problems

421 | Modelling of gas release from a nuclear waste repository Gas generation and release from radioactive waste repositories

422 | Quantification and Uncertainty Analysis of Source Terms for Severe Accidents in Light Water Reactors (QUASAR). Part 2. Sensitivity Analysis Techniques

423 | Ionic strength effect on solubility of Np(V) hydroxide and migration behavior of Np(V) in the presence of Fe(III) particles Proceedings of the third international symposium on advanced nuclear energy research

424 | Rock/water interaction study in deep crystalline rocks using isotopic and uranium series radionuclide techniques

425 | Extension to unsaturated flow of the finite-element program NAMMU for coupled heat and groundwater flow

426 | Coupled transport processes in semipermeable media. Part 2, Numerical method and results

427 | Investigations of Sensitivity and Uncertainty in Some Hydrologic Models of Yucca Mountain and Vicinity

428 | Diffusion of ion-exchanging electrolytes in montmorillonite gels

429 | Thermo-mechanical behaviour of a salt dome with a heat-generating waste repository TI <Augmentation> TASTE code and GOLIA code

430 | Method for making glass TI <NOTE> Patent Application

431 | Characterization of Radioactive Waste Melter Feed Vitrified By Microwave Energy

432 | Field Determination of Effective Porosity

433 | Field determination of the hydrologic properties and parameters that control the vertical component of groundwater movement

434 | On the field determination of effective porosity

435 | SRL online Analytical Development

436 | Task plan for test of PRBT prototypic liquid sampler TI <Augmentation> Precipitate Reactor Bottom Tank (PRBT)

437 | Task plan for test of PRBT prototypic liquid sampler. Revision 1

438 | Borehole closure and test zone volume determination program for brine-permeability test results within the Waste Isolation Pilot Plant underground facility

439 | Postirradiation examination results from the LP-FP-2 center fuel module

440 | Single continuum approximation of the solute transport in fractured porous media.

441 | Investigation of the Migration of Harmful Organic Substances Through Mineral Seals by Means of Radioactive Tracers. Final Report

442 | Study of a Large Rapid Ashing Apparatus and a Rapid Dry Ashing Method for Biological Samples and Its Application

443 | Quality assessment and testing methods in radioactive waste management apply in the 'Boris Kidric' TI Institute of Nuclear Sciences-Vinca Environmental consequences of hazardous waste disposal. Vol. 2 <Original Series/Collective> Ds

444 | Thermal performance of a buried nuclear waste storage container storing a hybrid mix of PWR and BWR spent fuel rods. Revision 1

445 | Thermal performance of a buried nuclear waste storage container storing a hybrid mix of PWR and BWR spent fuel rods

446 | Thermal calculations pertaining to a proposed Yucca Mountain nuclear waste repository

447 | Computer modeling of fluid flow and combustion in the ISV (In Situ Vitrification) confinement hood

448 | Computer modeling of fluid flow and combustion in the ISV confinement hood

449 | In Situ Tuff Water Migration/Heater Experiment. Final Report

450 | <English> Distribution coefficients for strontium and cesium in overburden at a storage area for low-level radioactive waste TI <French Translation> Coefficients de distribution du strontium et du cesium en surcharge dans les bassins de stockage de dechets faiblement radioactifs

451 | Development and evaluation of a tracer-injection hydrothermal technique for studies of waste package interactions Scientific basis for Nuclear Waste Management X

452 | Integration of interpretation results of tracer tests performed in the Culebra dolomite at the Waste Isolation Pilot Plant site

453 | Subterranean burial of spent ionizing radiation sources

454 | Manufacture of electron beam irradiation vessel and its characteristics

455 | Design management and stress analysis of a circular rock tunnel for storage of spent nuclear fuel

456 | Formalism to generate probability distributions for performance-assessment modeling

457 | Analysis of well test data from selected intervals in Leuggern deep borehole. Verification and application of PTST method

458 | Prematurely terminated slug tests

459 | Detecting Buried Radium Contamination Using Soil-Gas and Surface-Flux Radon Measurements

460 | Si-C applications Silicon. Suppl. Vol. B3. System Si-C. SiC: Natural occurrence. Preparation and manufacturing chemistry. Special forms. Manufacture. Electrochemical properties. Chemical reactions. Applications. Ternary and higher systems with Si and C

461 | STEADY STATE FLUID FLOW THROUGH A POROUS MATERIAL BETWEEN TWO INFINITE PLATES MAINTAINED AT DIFFERENT TEMPERATURES.

462 | Air permeability measurements of the unsaturated Bandelier Tuff near Los Alamos, New Mexico.

463 | Interpretation of the convergent-flow tracer tests conducted in the Culebra dolomite at the H-3 and H-4 hydropads at the Waste Isolation Pilot Plant (WIPP) site

464 | Double-porosity tracer-test analysis for interpretation of the fracture characteristics of a Dolomite formation

465 | Measurements in Large JP-4 Pool Fires

466 | Heat Transfer in Severe Accident Simulations

467 | High-density aseismic fuel storage racks

468 | Solubility experiments for the Nevada Nuclear Waste Storage Investigations Project

469 | Low-temperature preparation of pyrolytic carbon Emergent process methods for high-technology ceramics

470 | Experimental and Theoretical Investigation of Effects Occurring During the Cooling of Technical HLW (High Level Waste) Glass Products

471 | Experimentelle und theoretische Untersuchung der Vorgaenge beim Abkuehlen von technischen HAW-Glasprodukten TI <French Translation> Etude theorique et experimentale sur les effets observes au cours du refroidissement de produits vitreux techniques HLW TI <English Translation> Experimental and theoretical investigation on effects occurring during the cooling technical HLW glass products

472 | Experimentelle und theoretische Untersuchung der Vorgaenge beim Abkuehlen von technischen HAW-Glasprodukten. (Experimental and theoretical investigation of effects occurring during the cooling of technical HLW glass products)

473 | Temperature history for canistered fuel lag storage areas during the loss of cooling air at the receiving and handling building of the MRS Facility

474 | <English> Flow and nuclide transport in fractured media: the importance of the flow-wetted surface for radionuclide migration TI <English> Migration 91

475 | <English> Study of porosity and migration pathways in crystalline rock by impregnation with SUP 1 SUP 4 C-polymethylmethacrylate TI <English> Migration 91

476 | <English> A study of the effects of an alkaline plume from a cementitious repository on geological materials TI <English> Migration 91

477 | 2D-SEEP computer code user's manual

478 | Power fluidics for nuclear and process plant safety and control

479 | Technique to investigate the mechanism of uniform corrosion in the presence of a semi-permeable membrane

480 | An evaluation of the use of mercury porosimetry in calculating hydrologic properties of tuffs from Yucca Mountain, Nevada

481 | <English> Gas pulse test. A new test method for low permeability formations TI <French Translation> Gas pulse test. Une methode nouvelle pour la mesure des faibles permeabilites

482 | Erfahrungen bei Durchlaufsaeulen-Versuchen mit (14) C. (Report on once-through column experiments with carbon-14)

483 | A Lagrangian reactive transport simulator with successive paths and stationary-states: Concepts, implementation and verification

484 | On the reliability of computer predictions of the geomechanical behaviour of rock-salt

485 | Progress report on project COSA Excavation response in geological repositories for radioactive waste Proceedings of an NEA Workshop

486 | Petrophysical characteristics of basalt in the vadose zone, Idaho National Engineering Laboratory, Eastern Snake River Plain, Idaho

487 | Instrumentation and computational techniques and resulting geostatistical characterization of INEL vadose zone basalt

488 | Waste management modeling using reservoir characterization techniques Proceedings of the 1991 SPE annual technical conference and exhibition

489 | Buffer Mass Test - Thermal Calculations for the High Temperature Test

490 | A method for examining ground water flow and solute transport around a repository

491 | Development of Reinstrumenting Technique of Fuel Rods with Pressure Gages. In and out-of-Pile Characteristics of Developed Fission Gas Pressure Gages

492 | Hydrogeologische, geohydraulische und geothermische Untersuchungen an geplanten Standorten fuer die Endlagerung radioaktiver Abfaelle. T. 3. Geothermik. Abschlussbericht. (Hydrogeological, geohydraulic and geothermal studies in projected final storage sites for radioactive waste. Pt. 3. Geothermal studies. Final Report)

493 | Final Improvement of Computer Codes to Study Temperature Determination

494 | Measurement of HTO permeation rates through various candidate disposable -plastic-suit materials. Report No. 90-232-K

495 | Swedish studies of high-level waste disposal in crystalline rock Radwaste '86: proceedings volume. Conference on the treatment and containment of radioactive waste, and its disposal in arid environments

496 | Spezielle Radonmessungen. Abschlussbericht (Special Radon Measurements. Final Report)

497 | Field technique to measure the tortuosity and sorption-affected porosity for gaseous diffusion of materials in the unsaturated zone with experimental results from near Barnwell, South Carolina

498 | Iridium oxide thin-film stability in high-temperature corrosive solutions

499 | Assessment of uncertainties in measurement of pH in hostile environments characteristic of nuclear repositories

500 | Waste Isolation Pilot Plant brine field pH measurements: Technique and interpretation

501 | Near-surface heater test results: environmental implications for the disposal of high level nuclear waste

502 | Solubility data for U(VI) hydroxide and Np(IV) hydrous oxide: application of MCC-3 methodology Scientific basis for Nuclear Waste Management VIII

503 | Zur Berechnung dreidimensionaler Spannungs-und Verformungszustaende fuer Hohlraeume im Salzgebirge. (Computation of three-dimensional stress and deformation states for caverns in salt deposits) TI <NOTE> Diss. (Dr.-Ing)

504 | In situ-investigations in salt formations Radioactive waste management and disposal

505 | Cooling and devitrification in a canister of simulated nuclear waste glass

506 | In-situ experiments in fractured granite Proceedings of the Canadian Nuclear Society 2. international conference on radioactive waste management

507 | Method for permanently storing radioactive ion exchanger resins

508 | Mooring operations Subseabed Disposal Project annual report, FY85 to termination of project: Physical Oceanography and Water Column Geochemistry Studies, October 1984 through May 1986 TI <Augmentation> Nares Abyssal Plain: Nares II Oceanographic Mission

509 | Thermal Property and Density Measurements of Samples Taken from Drilling Cores from Potential Geologic Media

510 | Endeavor cruise EN-121, Leg II, September 18-October 1, 1984. Nares Abyssal Plain

511 | Rheology of rock-salt and its application for radioactive waste disposal purposes Proceedings of the international symposium on engineering in complex rock formations

512 | <English> Geotechnical investigation methodes for rock salt TI <French Translation> Methodes d'etude geotechnique des roches salines

513 | Modeling the steady-state ISV process: A 3-D finite element analysis of coupled thermal-electric fields

514 | Scaling considerations for modeling the in situ vitrification process

515 | <English> 3. Engineering geological methods for proving the barrier efficiency and stabilite of the host rock of a radioactive waste repository. TI <French Translation> 3. Methodes geotechniques pour prouver l'efficacite de barriere et la stabilite de la roche hote d'un site de stockage de dechets radioactifs

516 | <English> Engineering geological methods for proving the barrier efficiency and stability of the host rock of a radioactive waste repository TI <French Translation> Les methodes geotechniques pour prouver la fiabilite des barrières et la stabilite des roches encaissantes d'un site de stockage pour dechets radioactifs

517 | MAGNUM2D

518 | Room 209 excavation response test in the underground research laboratory Excavation response in geological repositories for radioactive waste Proceedings of an NEA Workshop

519 | Metal toxicity evaluation of Savannah River Plant saltstone comparison of EP and TCLP test results

520 | Metal Toxicity Evaluation of Savannah River Plant Saltstone Comparison of EP (Extraction Procedure) and TCLP (Toxicity Characterization Leaching Procedure) Test Results

521 | Qualification of fission gas release data from Task 2 rods. High Burnup Effects Program: Final report TI <NOTE> Progress rept

522 | Probing the Hanford radioactive waste tanks with geophysical techniques

523 | Recent developments in the conceptual geologic and hydrologic understanding of the WIPP site, Southeastern New Mexico Waste management '87: Waste isolation in the US, technical programs, and public education TI <Series/Collective> Volume 2 - High-level waste

524 | Container for enclosing radioactive waste and a method for treating waste enclosed in the container

525 | Microwave measurements of water vapor partial pressure at temperatures up to 350 degrees C

526 | Current status of glass leaching studies in France

527 | Laboratory measurements of the hydrofracturing tensile strength of two large URL rock samples TI <NOTE> Report no. MRL 91-035(TR)

528 | <English> Removal of SUP 1 SUP 3 SUP 7 Cs and SUP 6 SUP 0 Co from real radioactive waste solution by precipitation-flocculation method

529 | Determination of Radionuclide Concentrations of U and Th in Unprocessed Soil Samples TI <NOTE> Thesis (Ph.D.)

530 | Estimating porosity and dispersivity of a fissured dolomitic aquifer with a two-well, recirculating tracer test using simultaneous tritium and bromide labels

531 | Chemical study on the separation and purification of promethium-147 Articles

532 | Computational method for thermoviscoelasticity with application to rock mechanics TI <Augmentation> Ph. D. Thesis

533 | Theoretical evaluation of consolidated rod temperature in spent fuel storage canister Heat transfer problems in nuclear waste management TI <Series/Collective> HTD - Vol. 67

534 | K[sub d] measurements of activation, fission and heavy elements in water/solid phase systems

535 | Diffusivity and porosity studies in rock matrix: The effect of salinity. Research note

536 | Tank 101-SY flammable gas mitigation test project plan

537 | Sea Salt Aerosol, Atmospheric Radon and Meteorological Observations in the Western South Atlantic Ocean (February 1981) TI <NOTE> Memorandum rept.

538 | Geohydrological appraisal of the Vaalputs radioactive waste disposal facility in Namaqualand, South Africa

539 | Field Manual for Geohydrological Sampling as Applied to the Radioactive Waste Disposal Program

540 | Moderate temperature zeolitic alternation in a cooling pyroclastic deposit TI <Augmentation> NNWSI

541 | Radiochemical investigation of the partition and sorption of lead in groundwater/sediment systems

542 | Analytical models for C-14 transport in a partially saturated, fractured, porous media

- 543 | Release and transport of gaseous C-14 from a nuclear waste repository in an unsaturated medium
- 544 | A methodology to predict the uniformity of double-shell waste slurries based on mixer pump operation
- 545 | Tests of absorbents and solidification techniques for oil wastes
- 546 | Temperature measurements from the prototype engineered barrier system field test
- 547 | Technical basis and programmatic requirements for Engineered Barrier System Field Tests
- 548 | Hydrological properties of Topopah Spring tuff under a thermal gradient. Laboratory results.
- 549 | Temperature measurements from a horizontal heater test in G-Tunnel
- 550 | Pilot-scale in situ vitrification at Arnold Engineering Development Center, Arnold AFB, TN
- 551 | Thermal analysis of the modified Hallum Nuclear Power Facility cask using experimentally obtained thermal boundary conditions corresponding to an engulfing open pool fire
- 552 | Hydrologic characterization of fractured rocks: An interdisciplinary methodology
- 553 | Effective porosities of basalt: A technical basis for values and probability distributions used in preliminary performance assessments
- 554 | THERMAL ANALYSIS OF THE HEAT EXCHANGER FOR A SPENT NUCLEAR FUEL STORAGE POOL.
- 555 | COSA II Further benchmark exercises to compare geomechanical computer codes for salt
- 556 | Instrumented Leach Column for the Study of Sulphide Oxidation in Waste Heaps
- 557 | Test plan: Air Intake Shaft Performance Tests
- 558 | Control of water infiltration at humid area shallow land burial facilities
- 559 | General corrosion studies of candidate container materials for the Basalt Waste Isolation Project High-level nuclear waste disposal
- 560 | Package characterization by laboratory leaching and diffusion experiments using radionuclides Scientific basis for nuclear waste management XII <Original Series/Collective> Materials Research Society symposium proceedings. Volume 127
- 561 | A method for determining the oxidation state of uranium at concentration as low as 10⁻¹⁰/M Scientific basis for nuclear waste management XII <Original Series/Collective> Materials Research Society symposium proceedings. Volume 127
- 562 | Thermochemical comparison of the systems Re-0 and Tc-0 Scientific basis for nuclear waste management XII <Original Series/Collective> Materials Research Society symposium proceedings. Volume 127
- 563 | Alteration of basaltic glass in Iceland as a natural analogue for nuclear waste glasses TI Geochemical modelling with DISSOL Scientific basis for nuclear waste management XII <Original Series/Collective> Materials Research Society symposium proceedings. Volume 127
- 564 | In-situ stress measurements - results of experiments performed at the ASSE salt mine - Federal Republic of Germany Scientific basis for nuclear waste management XII <Original Series/Collective> Materials Research Society symposium proceedings. Volume 127

565 | Validation of the SKBU1 uranium thermodynamic data base for its use in geochemical calculations with EQ3/6 Scientific basis for nuclear waste management XII <Original Series/Collective> Materials Research Society symposium proceedings. Volume 127

566 | Thin-layer mixed-potential model for the corrosion of high-level nuclear waste canisters

567 | Site characterization plan: Conceptual design report: Volume 5, Appendices P-R: Nevada Nuclear Waste Storage Investigations Project TI <Augmentation> NNWSI

568 | Site characterization plan: Conceptual design report, Volume 2: Chapters 4-9: Nevada Nuclear Waste Storage Investigations Project TI <Augmentation> Contains glossary

569 | Site characterization plan: Conceptual design report: Volume 6, Drawing portfolio: Nevada Nuclear Waste Storage Investigations Project TI <Augmentation> NNWSI

570 | Site characterization plan: Conceptual design report: Volume 4, Appendices F-0: Nevada Nuclear Waste Storage Investigations Project TI <Augmentation> NNWSI

571 | Site characterization plan: Conceptual design report, Volume 3: Appendices A-E: Nevada Nuclear Waste Storage Investigations Project TI <Augmentation> NNWSI

572 | Long term leach behavior of West Valley HLW glasses Spectrum '86: Proceedings: Volume 1

573 | EFFECTS OF HEAT TRANSFER FROM A HOT PENETRATOR INSTALLED IN THE OCEAN BED.

574 | OCEAN DISPOSAL OF HIGH LEVEL RADIOACTIVE WASTE PROGRESS REPORT OCTOBER 1982-SEPTEMBER 1983. CENTRIFUGE MODELLING OF HEAT TRANSFER AROUND CANISTERS INSTALLED IN SUBMERGED KAOLIN. PART 2.

575 | Advanced techniques for analytic liquid wastes management in the Rokkasho reprocessing plant

576 | Measurement of Tritium Permeation Through Resistant Materials Near Room Temperature

577 | Infrared imaging systems for the ferrocyanide waste tanks at the US Department of Energy's Hanford Site

578 | Shear wave experiments at the US site at the Grimsel laboratory

579 | The application of vertical seismic profiling and cross-hole tomographic imaging for fracture characterization at Yucca Mountain

580 | Nuclear waste packaging module

581 | On-Line Uranium Determination Using Remote Fiber Fluorimetry

582 | CONDIMENT: Synthese generale des differentes versions. (CONDIMENT: General synthesis of different versions)

583 | Europium removal with a mineral mixture

584 | Fallout Fractionation in Silicate Soils TI <NOTE> Doctoral thesis, Aug 80-Jul 83

585 | Boundary integral methods for unsaturated flow

586 | Radioactive gaseous waste processing device

587 | Tritium Distribution Between the Fuel Can and the Oxide of Fuel Elements of Light-Water Reactors TI <NOTE> These (D. Ing.)

588 | A method to evaluate the maximum allowable temperature of spent fuel in dry storage during a postulated accident

589 | Comparison of HYDRA-II Predictions to Temperature Data from Consolidated and Unconsolidated Model Spent Fuel Assemblies

590 | An interim evaluation of the thermal stability of Cu_{0.67}Y_{0.25}Kr_{0.08} sputter deposits

591 | Results of field testing of waste forms using lysimeters

592 | TMI-2 EPICOR-II Resin/Liner Investigation: Low-level waste data base development program for fiscal year 1989

593 | Incentives for the use of depleted uranium alloys as transport cask containment structure

594 | NO_x abatement pilot plant 90-day test results report

595 | An electrochemical approach to predicting corrosion performance of container materials TI <Augmentation> Yucca Mountain Project

596 | Demonstration of a risk-based approach to high-level waste repository evaluation, Phase 2

597 | Probabilistic approach to unsaturated seepage analysis Management of uranium mill tailings, low-level waste, and hazardous waste

598 | The geology of the Nevada Test Site and surrounding area: A field trip for the 28th International Geological Congress

599 | Geology of the Nevada Test Site and surrounding area: A field trip for the 28th International Geological Congress

600 | Testing and cobra-SFS analysis of the VSC-17 ventilated concrete, spent fuel storage cask Proceedings of high level radioactive waste management

601 | Expected Near-Field Thermal Performance for Nuclear Waste Repositories at Potential Salt Sites: Technical Report

602 | Method of recovering hazardous waste from phenolic resin filters

603 | Chemical precipitation of caesium from simulated medium active waste with hexacyanocobaltate(III) salts

604 | A model for the viscosity of multicomponent glass melts Ceramic transactions

605 | Standardized test methods for use in waste compliance testing in the Department of Energy's waste acceptance process Waste management '87: Waste isolation in the US, technical programs, and public education TI <Series/Collective> Volume 2 - High-level waste

606 | Investigations into the coupled fluid flow and mechanical creep closure behavior of waste disposal rooms in bedded salt Gas generation and release from radioactive waste repositories

607 | 662-E solid waste silo-plug lifting analysis

608 | Test methods to predict long-term corrosion of container materials in repositories Scientific basis for Nuclear Waste Management VIII

609 | Fiber-optic pH sensor for in-situ applications

610 | Survey of techniques for corrosion monitoring

611 | (In-Situ Heat Transfer Experiment (ISHTE): Final report on contract 52-5769

612 | Liquid abrasive decontamination: a volume reduction technique at the R.E. Ginna Station

613 | Ion exchangers in radioactive waste management : Part II. Radiotracer studies on adsorption of barium ions on sodium titanate

614 | Ion exchangers in radioactive waste management: Pt. 5 TI A case of efficient removal of Ba(II) from aqueous solutions by TiO₂ powder - radiotracer study

615 | A mathematical model of the behaviour of concrete backfill in an underground radioactive-waste repository

616 | Studies on leaching behavior of sodium borosilicate glasses by neutron activation: Effects of groundwater composition, pH, surface area to volume ratio and temperature Second international conference on methods and applications of radioanalytical chemistry. Abstracts

617 | Waste Isolation Pilot Plant simulated RH TRU waste experiments: Data and interpretation pilot

618 | WIPP waste package performance testing on simulated DHLW: Early data High-level nuclear waste disposal

619 | Test plan appendix: WIPP simulated RH TRU waste add-on tests (Additional rock mechanics and waste package performance)

620 | WIPP SIMULATED DHLW TESTS: STATUS AND INITIAL IN SITU BACKFILL THERMAL CONDUCTIVITIES.

621 | Heater Test 1, Climax Stock Granite, Nevada

622 | Investigation of Fracture Permeability around an Underground Opening in Metamorphic Rocks

623 | Monitoring the vadose zone in fractured tuff, Yucca Mountain, Nevada

624 | Publications in biomedical and environmental sciences programs, 1982

625 | Maximum-temperature calculation method for a 37-element CANDU spent-fuel bundle in an enclosure

626 | Evaluation of Some Tracer Tests in the Granitic Rock at Finnsjoen

627 | Analysis of Borehole Inclusion Stress Measurement Concepts Proposed for Use in the Waste Isolation Pilot Plant (WIPP)

628 | Pretest reference calculation for the Heated Axisymmetric Pillar (WIPP Room H in situ experiment)

629 | Infrared and Raman investigation of rare-earth phosphate glasses for potential use as radioactive waste forms

630 | Development of Partitioning Method: Dynamic Adsorption Characteristics of Titanic Acid and Zeolite Mixed Column for Sr and Cs Ions

631 | Critical parameters and measurement methods for post closure monitoring: A review of the state of the art and recommendations for further studies

632 | Comparison of high temperature gas particulate collectors for low level radwaste incinerator volume reduction systems Waste management '83. Vol. 1

633 | Thermodiffusion in Glassschmelzen. Abschlussbericht (Thermal Diffusion in Glass Melts. Final Report)

634 | Fiber-optic pH sensor for in situ applications

635 | FIBEROPTIC PH SENSOR FOR INSITU APPLICATIONS

636 | Advanced techniques for analytic liquid wastes management in the Rokkasho reprocessing plant Proceedings of the third international conference on nuclear fuel reprocessing and waste management, RECOD'91

637 | Triaxial- and uniaxial-compression testing methods developed for extraction of pore water from unsaturated tuff, Yucca Mountain, Nevada

638 | Transient analytical temperature distributions in cylindrical packed beds volumetrically heated by radiogenic decay energy

639 | Implementation of thermal/structural interactions in situ tests at the Waste Isolation Pilot Plant facility

640 | 18 W/m² mockup for defense high-level waste (Rooms A): In situ data report

641 | <English> Parametric analysis of performance of free-fall penetrators in deep-ocean sediments TI <French Translation> Analyse des parametres des performances des penetrateurs a chute libre dans les sediments de mer profonde

642 | Determination of uranium isotopes in a complex matrix by optical spectroscopy

643 | Chemistry of actinides and lanthanides. New extractants and separation methods

644 | The impact of the virgin rock temperature at Hanford on the ventilation parameters for the nuclear waste repository in basalt Proceedings of the 3rd mine ventilation symposium

645 | Measuring Methods of Matrix Diffusion. A Literature Study

646 | Permeability of Shale at Elevated Temperature and Pressure: Test Methodology and Preliminary Results

647 | <English> Design criteria for an underground nuclear waste repository TI <French Translation> Criteres d'etudes pour un depot de dechets nucleaires souterrain

648 | Developments in the monitoring and control of Eh and pH conditions in hydrothermal experiments. Geochemical behavior of disposed radioactive waste TI <Series/Collective> ACS symposium series 246

649 | Techniques for monitoring Eh-pH conditions in hydrothermal experiments

650 | Analysis of fission gas release from UO₂ fuel during power transients by FEMAXI-IV code Water reactor fuel behaviour and fission products release in off-normal and accident conditions

651 | Geomechanical behaviour of boom clay under ambient and elevated temperature conditions

652 | The Bacchus experiment at the hades underground research facility at Mol, Belgium Sealing of Radioactive Waste Repositories

653 | A large scale flow and tracer experiment in granite In-situ experiments associated with the disposal of radioactive waste

654 | Validation efforts in modeling partially saturated flow and transport in heterogeneous porous media - the Las Cruces trench studies Safety Assessment of Radiactive Waste Repositories

655 | Sensitivity and uncertainty analyses of unsaturated flow travel time in the CHnz unit of Yucca Mountain, Nevada

656 | Thermal conductivity of seven thermal/mechanical units at Yucca Mountain, Nevada. Yucca Mountain Project

657 | Calculation of heat capacities for tuffaceous units from the unsaturated zone at Yucca Mountain, Nevada. Yucca Mountain Site Characterization Project

658 | Coupled fluid flow and creep analysis for room saturation of a salt repository: Parametric analysis Proceedings of the 1987 international waste management conference

659 | Solidification of glass powder by a hydrothermal hot-pressing technique

660 | Measurements of sediment temperatures, conductivity, and heat flow in the North Atlantic and their relevance to radioactive waste disposal

661 | Coupled thermal-hydraulic-mechanical phenomena in saturated fractured porous rocks: numerical approach

662 | sup 36 Cl studies of water movements deep within unsaturated tuffs TI <Augmentation> Yucca mountain project

663 | A capacitance-based proximity sensor for whole arm obstacle avoidance

- 664 | Implementation of initial tests in the Brine Inflow Room (Room Q) of the Waste Isolation Pilot Plant
- 665 | Study of thermal and hydraulic phenomena accompanying a rapid power excursion on a heating channel TI <NOTE> Thesis (Ph.D)
- 666 | In situ radionuclide transfers in the deep-sea Lysianassidae amphipod Eurythenes gryllus Interim oceanographic description of the North-East Atlantic site for the disposal of low-level radioactive waste. Volume 3
- 667 | Distribution of Lysianassidae amphipods Eurythenes gryllus in the North-East Atlantic Interim oceanographic description of the North-East Atlantic site for the disposal of low-level radioactive waste. Volume 3
- 668 | The measurement of soil water tension in a hydrologic study of waste disposal site design
- 669 | Retention properties of pressed salt for Tc, Np, Pu and Am leached from simulated HLW glass
- 670 | Development of Radionuclide Migration Monitor, (1). Nondestructive Measurement of Radionuclide Concentration Distribution in Aerated Soil Sample
- 671 | Three dimensional coupled thermo-hydraulic-mechanical analysis code with PCG method Safety Assessment of Radioactive Waste Repositories
- 672 | Measurements of solubilities and aqueous species related to the performance of a high-level nuclear waste repository in bedded salt: A test plan for technetium, radium, and iodine: Nuclear and Chemical Waste Program
- 673 | Effect of Strain Rate on the Compressive Strength of Dry and Saturated Tuff
- 674 | Data Summary Report for Fission Product Release Test VI-4 TI <NOTE> Technical rept
- 675 | Data Summary Report for Fission Product Release Test VI-5 TI <NOTE> Technical rept
- 676 | Experimental modeling of a nuclear waste repository: Determination of convective heat transfer coefficients and drift temperature profiles Waste management 86. Volume 2: High-level waste
- 677 | Stress analysis of HLW containers advanced test work Compas project
- 678 | Estimation of longevity of portland cement grout using chemical modeling techniques Scientific basis for nuclear waste management 13
- 679 | Durable concrete for a waste repository - Measurement of ionic ingress Scientific basis for nuclear waste management 13
- 680 | Analytical and numerical models of transport in porous cementitious materials Scientific basis for nuclear waste management 13
- 681 | Hydrothermal leaching of R7-T7 borosilicate glass Scientific basis for nuclear waste management 13
- 682 | Modelling the in situ performance of bentonite-sand buffer Scientific basis for nuclear waste management 13
- 683 | Effective diffusivity of carbon dioxide and iodine through G tunnel tuff Scientific basis for nuclear waste management 13

684 | Geotechnische und grossnumerische Untersuchungen zur direkten
Endlagerung von Brennelementen. Teilprojekt I. Thermische Simulation
der Streckenlagerung. Schlussbericht (5. Bericht). (Geotechnical and
large-scale numerical studies of direct ultimate storage of fuel
elements. Part project I. Thermal simulation of drift emplacement.
Final report (5. report))

685 | Geotechnisches Verhalten verschiedener Salzgesteine. Teilprojekt 3.
In-situ-Messtechnik im Salz. Schlussbericht. (Geotechnical behavior of
different salt rocks. Partial project 3. In situ measuring techniques
in salt. Final report)

686 | Estimation of the Relative Permeability Distribution in Fractured
Granitic Rocks by Means of Vertical Flow Measurements in the Siblingen
Borehole, Switzerland TI <NOTE> Water resources investigation

687 | Estimation of the relative permeability distribution in fractured
granitic rocks by means of vertical flow measurements in the Siblingen
borehole, Switzerland. Water Resources Investigation

688 | <English> Characterization of fracture permeability with
high-resolution vertical flow measurements during borehole pumping TI
<French Translation> La caracterisation de la permeabilite des
fractures grace aux mesures haute-resolution du flux vertical au cours
du pompage dans les sondages

689 | TRIO-EF a general thermal hydraulics computer code applied to the
AVLIS process Laser isotope separation

690 | Capillary effects of gas/liquid inclusions in waste repositories

691 | <English> Ground water proves a hidden element whose time has come

692 | Performance of containment penetrations under severe accident loadings

693 | Operational and Technical Results from the Spent Fuel Test - Climax

694 | Spent fuel test - Climax: technical measurements. Interim report,
Fiscal Year 1983

695 | Application of proving-ring technology to measure thermally induced
displacements in large boreholes in rock

696 | A rapid method for the analysis of technetium-99 in liquid radioactive
wastes Second international conference on methods and applications of
radioanalytical chemistry. Abstracts

697 | Calibration of alpha-track monitors for measurement of thoron

698 | Canister glass level detection by fast neutron transmission

699 | Factors affecting the thermo-hydro-mechanical response of clay in the
safety assessment of nuclear waste repositories Excavation response in
geological repositories for radioactive waste Proceedings of an NEA
Workshop

700 | Method for immobilizing radioactive noble gases in zeolites

701 | Thermal Response Studies. 1984 Subseabed Disposal Project annual
report, October 1983-September 1984

702 | Atmospheric Radon Measurements in the Antarctic Peninsula: A
Preliminary Report

703 | Flow visualization and relative permeability measurements in
rough-walled fractures

704 | Two-phase flow visualization and relative permeability measurement in
transparent replicas of rough-walled rock fractures

705 | Hot test of a TALSPEAK procedure for separation of actinides and
lanthanides using recirculating DTPA-lactic acid solution

706 | sup 14 C release from failed spent fuel containers

707 | Operation of a guarded straddle packer system
708 | WIPP Horizon in Situ Permeability Measurements. Final Report
709 | Fluid flow measurements of Test Series A and B for the Small Scale
Seal Performance Tests
710 | Permeability measurements at the Waste Isolation Pilot Plant (WIPP)
Waste management 86. Volume 2: High-level waste
711 | Dispersion of contaminant during oscillatory gas-motions driven by
atmospheric pressure variations
712 | Test plan: WIPP horizon in situ permeability measurements
713 | <English> Measuring and modeling water imbibition into tuff TI <French
Translation> Mesure et modélisation de l'imbibition d'eau dans un tuf
714 | Separation by vapour phase transport of stainless steel constituents
Decommissioning of nuclear installations TI <Augmentation> Radioactive
contaminated steels
715 | Immobilization of contamination by the coating of polymers on
large-size waste products Decommissioning of nuclear installations
716 | Thermal techniques for surface concrete decontamination
Decommissioning of nuclear installations
717 | Decontamination using chemical gels, electrolytical swab, abrasives
Decommissioning of nuclear installations
718 | Calculation of thermodynamic properties for monomeric U(IV) hydrolysis
products at 298.15 K and zero ionic strength
719 | Effect of repository heating on dissolution of glass waste
720 | Experimental measurements of the solubilities of selected long-lived
fission products, activation products and actinide daughters under
high pH conditions
721 | Experimental measurements of the solubility of technetium under
near-field conditions
722 | Porosity and Focused Dissolution of Granitic Rocks in Two Study Areas
in Southern Finland: Aspects of Methodology TI <NOTE> Thesis
723 | Density and Volume Measurements of Reprocessing Plant Feed
724 | Rheology of glasses containing crystalline material Nuclear waste
management II TI <Series/Collective> Advances in ceramics. Volume 20
725 | Computer-based liquid radioactive waste control with plant emergency
and generator temperature monitoring Proceedings of the ISA/86
international conference and exhibit TI <Series/Collective> Advances
in instrumentation
726 | Dose rate calculations due to external irradiation from radioactively
contaminated building iron Abstracts of 20. International Symposium
Radiation Protection Physics
727 | Some actinide speciation using laser induced photoacoustic
spectroscopy
728 | Field studies and modeling of chemical processes in the unsaturated
zone
729 | Equilibrium sorption of cobalt, cesium, and strontium on Bandelier
Tuff: analysis of alternative mathematical modeling
730 | Statistical analysis of the DWPF prototypic sampler
731 | Design considerations: high temperature equipment and piping of fluid
bed dryer and incinerator volume reduction systems

732 | Cooperative LLNL/HAZWRAP project to demonstrate field-based measurement of retardation factors. I. Distribution of perchloroethylene around and within permeable zones in saturated alluvial deposits

733 | Demonstration experience with an abrasive blasting technique for decontaminating concrete pads Waste management '90: Working towards a cleaner environment: Waste processing, transportation, storage and disposal, technical programs and public education. Volume 2, HLW and LLW technology: Proceedings

734 | Heat removal options and temperature predictions for a vault of grouted waste Waste management '90: Working towards a cleaner environment: Waste processing, transportation, storage and disposal, technical programs and public education. Volume 2, HLW and LLW technology: Proceedings

735 | Microcrack growing and long-term mechanical stability in a HLW deep-borehole repository in granite Waste processing, transportation, storage and disposal, technical programs and public education

736 | A calculation strategy for the determination of the temperature distribution in radioactive waste repositories Waste processing, transportation, storage and disposal, technical programs and public education

737 | The thermo-mechanical behavior of the underground test field TI A comparison of numerical predictions and in-situ measurement data Waste processing, transportation, storage and disposal, technical programs and public education

738 | Investigations of the cooling behavior of two high active waste glass canisters by temperature distribution measurements Waste processing, transportation, storage and disposal, technical programs and public education

739 | Three dimensional modeling of the wedge pillar portion of the WIPP geomechanical evaluation (room G) in situ experiment Rock mechanics:Key to energy production

740 | Determination of the tritium exhalation of radioactive wastes by means of the electret ionization chamber Abstracts of 20. International Symposium Radiation Protection Physics

741 | Investigation of non-destructive techniques for the examination and quality assurance of cemented radioactive waste. Final report

742 | On the time-dependent behavior of a cylindrical salt dome with a high-level waste repository

743 | Measurements in the 300-metre deep dry-drilled borehole and feasibility study on the dry-drilling of a 600-metre deep borehole in the Asse II salt-mine

744 | Bidirectional Draining Pore-Fluid Vessel TI <NOTE> Patent Application

745 | Untersuchung der thermomechanischen Effekte im Nahbereich des Endlagerkonzepts SL3(^{sup} *). (Investigation of thermomechanical effects in the near field of a drift emplacement repository)

746 | Model Calculations of Stresses and Deformations in Rock Salt in the Near Field of Heated Boreholes

747 | Development of Computation Methods and Models of Thermomechanical Interaction of Salt and Storage Well Casing or Stored Wastes

748 | Development of Computer Codes to Perform Model Calculations for Thermomechanical Interaction of Rock Salt with Borehole Liners in a HLW (High Level Waste) Repository

749 | Model calculations of the thermomechanical effects in the near field of a high-level radioactive waste repository

750 | Buffer mass test In situ experiments in granite associated with the disposal of radioactive waste. Proceedings of the symposium TI Les experiences in situ dans du granite relatives a l'evacuation des dechets radioactifs. Compte rendu du symposium

751 | Preliminary results from the buffer mass test of phase I, Stripa project Proceedings of the workshop on geological disposal of radioactive waste. In situ experiments in granite

752 | Stripa Buffer Mass Test instrumentation for temperature, moisture, and pressure measurements Design and instrumentation of in situ experiments in underground laboratories for radioactive waste disposal. Proceedings TI La conception et l'instrumentation d'expériences in situ en laboratoires souterrains pour l'évacuation des déchets radioactifs.. Comptes-rendus

753 | Improved method to evaluate radionuclide migration model parameters from flow-through diffusion tests in reconsolidated clay plugs

754 | Experimental modelling of the near-field thermal regime in a nuclear-fuel waste disposal vault.

755 | NET safety analyses and the European safety and environmental programme

756 | Steady flow in voids and closed cracks in permeable media. 1. Concentric spheres

757 | Coupled heat and groundwater flow in porous rock Numerical methods in heat transfer TI <Series/Collective> Volume II

758 | Dissolution kinetics of heulandite at pH 2--12 and 25[degrees]C

759 | Hydrothermal impact of a high-level nuclear waste repository Rock mechanics: Proceedings of the 28th U.S. symposium

760 | Possible relation between sonic velocity measured at the edge of a large borehole and shear failure Fourth symposium on containment of underground nuclear explosions. Proceedings: Volume 2

761 | Prototype heater test of the environment around a simulated waste package

762 | In situ changes in the moisture content of heated, welded tuff based on thermal neutron measurements TI <Augmentation> YUCCA MOUNTAIN PROJECT:A1

763 | <English> Preliminary evaluation of alterant geophysical tomography in welded tuff TI <French Translation> Estimation préliminaire de l'alteration dans un tuf soude par tomographie géophysique

764 | Electromagnetic experiment to map in situ water in heated welded tuff: Preliminary results Rock mechanics: Proceedings of the 28th U.S. symposium

765 | Prototype Engineered Barrier System Field Tests (PEBSFT). Progress report through November 1, 1988

766 | Permeability tests Prototype Engineered Barrier System Field Tests (PEBSFT). Progress report through November 1, 1988 TI <Augmentation> Permeability of fractured tuff around boreholes

767 | Prototype Engineered Barrier System Field Tests (PEBSFT)

768 | Colloids related to low level and intermediate level waste. Progress report for the period 1st July 1986 to 30th December 1986

769 | Essential Relationships Between in Situ Measurements and Laboratory Experiments for Realistic Evaluation of Transport in the Neighbourhood of Geological Waste Storage Sites

770 | <English> The closure of WIPP disposal rooms filled with various waste and backfill combinations

771 | Evaluation of Water and Abrasive Blasting Techniques for Canister Decontamination-Radioactive Tests

772 | Evaluation of stability of epoxy matrices for waste immobilisation using sup 137 Cs as a tracer (Preprint no. SST-15) International symposium on radiochemistry and radiation chemistry (Plutonium - 50 years) (held at Bombay during February 4-7, 1991): Preprints volume

773 | A sensitivity study of brine transport into a borehole containing a commercial high-level waste canister

774 | Recent developments in stochastic modeling and upscaling of hydrologic properties in tuff

775 | FT-IR analyses of the oxidative decomposition products of cyanoferrate wastes

776 | COBRA-SFS (Spent Fuel Storage): A Thermal-Hydraulic Analysis Computer Code: Volume 1, Mathematical Models and Solution Method

777 | SATURATED PERMEABILITY MEASUREMENTS ON PUMICE AND WELDED-TUFFACEOUS MATERIALS.

778 | Liquid permeability measurements on densely welded tuff over the temperature range 25 to 90/sup 0/C TI <Augmentation> NNWSI

779 | Liquid Permeability Measurements on Densely Welded Tuff over the Temperature Range 25 to 90 deg C

780 | Theoretical derivation of limiting solubilities of long-lived radionuclides in disposal IUPAC conference on chemical thermodynamics

781 | Potential for using a six-phase alternating current power supply system for in situ vitrification

782 | Pore pressure response to probe insertion and thermal gradient: ISIMU-II Thermal Response Studies. 1984 Subseabed Disposal Project annual report, October 1983 - September 1984

783 | BWR Spent-Fuel Measurements with the ION-1/Fork Detector and a Calorimeter

784 | Solar radiation control coatings reduce maximum temperatures in exposed storage drums

785 | Heat Transfer Analyses for Grout Disposal of Radioactive Double-Shell Slurry and Customer Wastes

786 | Recent Re-Measurement of Neutron and Gamma-Ray Spectra 1080 Meters from the APRD (Army Pulse Radiation Division) Critical Facility

787 | Acoustic P-wave velocity measurements of cataclastic effects in rock salt

788 | Acoustic crosshole measurements of cataclastic thermomechanical behaviour of rocksalt Design and instrumentation of in situ experiments in underground laboratories for radioactive waste disposal. Proceedings TI La conception et l'instrumentation d'expériences in situ en laboratoires souterrains pour l'évacuation des déchets radioactifs.. Comptes-rendus

789 | Measured release kinetics of iodine and cesium from UO₂ sub 2 at high temperatures under reactor accident conditions Fission product transport processes in reactor accidents

790 | Field testing of waste forms using lysimeters

791 | Non-conventional measurement techniques for the determination of some long-lived radionuclides produced in nuclear fuel. Literature survey Research note

792 | Evaluation of the potential for gas pressurization and free liquid accumulation in a HLW canister Annual meeting abstracts

793 | Untersuchung der Thermisch Induzierten Wasserfreisetzung aus Polyhalitischem Steinsalz unter In situ Bedingungen - Temperaturversuch 5 im Salzbergwerk Asse (Investigation of the Thermally Induced Water Liberation from Rock Salt with Polyhalite Seams under In situ Conditions - Temperature Test 5 in the Asse Salt Mine)

794 | HAW-Simulationsversuch mit Kobalt-60-Quellen im Salzbergwerk Asse. FE-Bericht 1986. (HAW simulation experiments with cobalt-60 radiation sources in the Asse salt mine. R and D report 1986)

795 | HAW Simulation Experiments with Cobalt-60 Radiation Sources in the Asse Salt Mine. R And D Report 1986

796 | Nuclear Waste Repository Simulation Experiments. Asse Salt Mine TI <NOTE> Annual rept. for 1985

797 | Nuclear waste repository simulation experiments. Asse salt mine. Annual report 1985

798 | Brookhaven highlights, 1986-1987

799 | Solid State Track Recorder neutron dosimetry in a simulated basalt geological waste repository

800 | Treatise on the Measurement of Radioactive Argon in the Atmosphere TI <NOTE> Master's thesis

801 | Carbonate adsorption onto goethite as a function of pH and ionic strength TI <Augmentation> Yucca Mountain Project:al

802 | Equivalent Energy Density concept: A preliminary reexamination of a technique for equating thermal loads

803 | Recovery of uranium using bifunctional resins (Preprint no. SST-17) International symposium on radiochemistry and radiation chemistry (Plutonium - 50 years) (held at Bombay during February 4-7, 1991): Preprints volume

804 | Modeling of hydrologic perturbations during reverse circulation drilling: 1, System and model description

805 | PORFLO-3: A mathematical model for fluid flow, heat, and mass transport in variably saturated geologic media. Theory and numerical methods, Version 1.0

806 | Online analytical systems for the uranium solidification facility at SRS

807 | Application of ion implantation and backscattering techniques to the analysis of nuclear waste glass corrosion

808 | THERMODYNAMIC DATA FOR SELECTED ELECTROLYTES AT ELEVATED TEMPERATURES.

809 | Synthesis and characterization of some phenolic resins for the selective removal of radiostrontium

810 | Simplified Modeling Technique for the Thermal Analysis of Spent Nuclear Assemblies

811 | An overview of the Yucca Mountain Global/Regional Climate Modeling Program

812 | <English> Design of underground supports for high-level nuclear waste repositories TI <French Translation> Conception de soutenement souterrain pour depot de dechets hautement radioactifs

813 | Catalyst Study for the Decontamination of Glove-Boxe Atmospheres Containing Tritium at MPC Levels

814 | Ra: A high efficiency, D-/sup 3/He, tandem mirror fusion reactor: Appendix C

815 | <English> Effect of dry density on diffusion of some radionuclides in compacted sodium bentonite

816 | Applied study on transfer of radioactive nuclides and heat diffusion around radioactive waste disposal cavern in deformable fractured rock mass Proceedings of the sixth international congress on rock mechanics

817 | CTD data from the Madeira Abyssal Plain. Charles Darwin Cruise 1/85

818 | CTD Data from the Madeira and Iberian Abyssal Plains. CHARLES DARWIN Cruises 3/85 and 9A/85

819 | CTD (Conductivity-Temperature-Depth) Data from the Madeira Abyssal Plain. Charles Darwin Cruise 1/85

820 | Benthic Boundary Layer - IOS (Institute of Oceanographic Sciences) Observational Programme: Discovery Gap Measurements, March 1984

821 | CTD (Conductivity-Temperature-Depth) Data from the Madeira and Iberian Abyssal Plains. Charles Darwin Cruises 3/85 and 9A/85

822 | Benthic Boundary Layer - IOS (Institute of Oceanographic Sciences, Wormley, England) Observational Programme: Discovery Gap Measurements, March 1984

823 | CTD Data from the N.E. Atlantic 31 Deg N - 46 Deg N, July 1982 Discovery Cruise 130

824 | Benthic Boundary Layer. IOS (Institute of Oceanographic Sciences) Observational Programme Interim Report January 1983

825 | CTD Data from Discovery Gap and the Madeira Abyssal Plain

826 | CTD data from the northeast Atlantic Ocean 22 deg N - 33 deg N, 19 deg W - 24 deg W, July 1983 during RRS DISCOVERY Cruises 138, 139

827 | Study of Hydrological and Geochemical Data on Materials for the Final Cover of Subsurface Storage Sites

828 | Thermal simulation of drift emplacement geotechnical and geophysical investigations in and around backfilled galleries Waste management '88 TI <Series/Collective> Volume I: Low-level waste

829 | Permeability and Consolidation of Deep-Sea Sediments

830 | Evidence of pore-water advection in the Madeira Abyssal Plain from pore-pressure and temperature measurements Geology and geochemistry of abyssal plains

831 | Vapour Pressure of Americium(III) Chloride TI <NOTE> Diss. (Dr.rer.nat.)

832 | Grain density measurements of ash flow tuffs: an experimental comparison of water immersion and gas intrusion pycnometer techniques

833 | Distribution of alpha activity on rock core

834 | Laboratory measurements of contaminant attenuation of uranium mill tailings leachates by sediments and clay liners

835 | Monitoring Sources of Nuclear Radiation in Space 1980-1984
Observations. Revision TI <NOTE> Memorandum rept. Apr 80-Jan 85

836 | A coupled spectrophotometric assay for routine assessment of
carbamylation and k₂ of rubisco

837 | Laboratory Testing of Cement Grouting of Fractures in Welded Tuff TI
<NOTE> Technical rept. 1988-90

838 | Soil-to-plant transfer of carbon-14 for environmental assessment of
radioactive waste repositories

839 | Tailings treatment techniques for uranium mill waste: a review of
existing information TI <Augmentation> Neutralization processes,
fixation processes, and specific constituent removal

840 | Preliminary experimental study on the deterioration of cementitious
materials by acceleration method Transactions of the 11th
international conference on structural mechanics in reactor technology

841 | A rough crack constitutive model for concrete Transactions of the 11th
international conference on structural mechanics in reactor technology

842 | Pilot research projects for underground disposal of radioactive waste
in Japan. Radioactive waste management. Volume 3. Proceedings of an
international conference held by the IAEA in Seattle, 16-20 May 1983

843 | HIP devolument treatment for radioactive waste

844 | Background information for the development of a low-level waste
performance assessment methodology

845 | Experimental Studies and Methods for Calculating Fission Product
Release from Failed Oxide Fuel Rods into an Organic Coolant

846 | Volatility of cesium and strontium from a synthetic basalt

847 | Penetration and pullout forces for the ISHTE corers and probes Thermal
Response Studies. 1984 Subseabed Disposal Project annual report,
October 1983 - September 1984

848 | Cruise report on In-Situ Vane system[^] cruise: ATLAS-84, ISHTE
component test, R/V Melville Thermal Response Studies. 1984 Subseabed
Disposal Project annual report, October 1983 - September 1984

849 | Investigations of radionuclide migration through intact rock cores
Second international conference on methods and applications of
radioanalytical chemistry. Abstracts

850 | Contributions to the Study of Environmental Radioactivity TI <NOTE>
Thesis (Ph. D)

851 | Immobilization of incinerator ash in a concrete matrix.

852 | Energygrams: brief descriptions of energy technology

853 | Characterization of the Topopah Spring and Tiva Canyon Tuffs at Yucca
Mountain TI <NOTE> Final report

854 | Separation of thorium from radioactive liquid waste by OXAL process

855 | MEASUREMENTS OF CESIUM AND STRONTIUM DIFFUSION IN BIOTITE GNEISS.

856 | DIFFUSIVITY MEASUREMENTS AND ELECTRICAL RESISTIVITY MEASUREMENTS IN
ROCK SAMPLES UNDER MECHANICAL STRESS.

857 | Preliminary evaluation of PSCM and BIPP melter design and operating
conditions using physical modeling

858 | Geochemical modelling. Pt.1, Pt.2

859 | Platform operation HOCUS cruise report

860 | Predictions of radioactive tungsten release for hypothetical ITER
(International Thermonuclear Experimental Reactor) accidents

861 | Three-dimensional contaminant plume dynamics in the vadose zone:
Simulation of the 241-T-106 single-shell tank leak at Hanford

862 | <English> Interpretation of gravity data in a complex volcano-tectonic
setting, southwestern Nevada TI <French Translation> Interpretation
des donnees gravimetriques d'une zone volcano-tectonique complexe,
Nevada Sud Ouest

863 | The development of new microwave heating applications at Ontario
Hydro's Research Division. Microwave processing of materials. 2

864 | <English> Developments, recommendations and applications of tests for
evaluating the chemical stability of high-level radioactive solid
waste forms

865 | Volatilization studies of cesium and molybdenum during HLW
solidification in sintered SYNROC-B crystalline waste forms

866 | A study of the use of crosslinked high-density polyethylene for
low-level radioactive waste containers

867 | The impact of LWR decontaminations on solidification, waste disposal
and associated occupational exposure

868 | Demonstration of in situ vitrification for treatment of
radioactively-contaminated soils at Oak Ridge National Laboratory
WATTec '92. Innovation in the 21st century: Excellence through
continuous improvement

869 | <English> Soda ash treatment of a strontium-90contaminated groundwater
seep

870 | Performance of Diffusion-Barrier Scintillation Cells under a Variety
of Controlled Environmental Conditions

871 | EPRI (Electric Power Research Institute)/ANL (Argonne National
Laboratory) Investigations of MCCI (Molten Core-Concrete Interactions)
Phenomena and Aerosol Release

872 | Devitrification and subsequent effects on the leach behavior of a
simulated borosilicate nuclear waste glass

873 | HEU confirmatory measurement instrument

874 | Model for measuring productivity: A case study of a radioactive waste
management facility TI <NOTE> Thesis (Ph.D)

875 | WIPP hydrology program, Waste Isolation Pilot Plant, southeastern New
Mexico: Hydrologic data report No. 6: Part A, Waste-handling shaft
pulse testing^ Part B, H-1, H-12, and P-15 slug tests^ Part C, H-2
pumping test^ Part D, H-16, H-17, and H-18 drill-stem, slug, and pulse
tests^ Part E, Water-level data

876 | WIPP Hydrology Program Waste Isolation Pilot Plant, Southeastern New
Mexico hydrologic data report No. 7: Parts A, WIPP-30, WIPP-12, and
P-18 slug tests^ B, H-11b4 drill-stem, slug, and pumping tests^ C,
H-18 pumping test^ D, water-level data

877 | WIPP hydrology program, Waste Isolation Pilot Plant, southeastern New
Mexico: Hydrologic Data Report No. 8

878 | Waste Isolation Pilot Plant Salado hydrology program data report No. 2

879 | Electrolytic recovery of copper and regeneration of nitric acid from a
copper strip solution. Energy reduction techniques in metal
electrochemical processes

880 | Measured data from the Avery Island, Louisiana, heating corejacking
tests

881 | Performance testing of the Doorstopper biaxial strain cell

882 | Reference Thermal and Thermal/Mechanical Analyses of Drifts for Vertical and Horizontal Emplacement of Nuclear Waste in a Repository in Tuff

883 | 1986 WIPP horizon permeability measurements

884 | Test plan: WIPP horizon gas flow/permeability measurements

885 | Summary of 1988 WIPP (Waste Isolation Pilot Plant) Facility horizon gas flow measurements

886 | Summary of 1988 WIPP Facility horizon gas flow measurements

887 | Summary of and observations about WIPP (Waste Isolation Pilot Plant) Facility horizon flow measurements through 1986

888 | In situ seal tests at the Waste Isolation Pilot Plant (WIPP) Waste management 86. Volume 2: High-level waste

889 | An alternate method for determining the Klinkenberg correction

890 | In situ measurements of rock salt permeability changes due to nearby excavation

891 | Changes in rock salt permeability due to nearby excavation

892 | Deformation and thermodynamic model for hydride precipitation kinetics in spent fuel cladding

893 | Waste disposal by hydrofracture and application of the technology to the management of hazardous wastes Proceedings of the international conference on new frontiers for hazardous waste management

894 | Release of Fission Products from WWER-440 Reactors under DBA Conditions: Calculation Methods and Results for Zarnowiec NPP (Nuclear Power Plant)

895 | A method of determining weight percent solids in SRAT/SME slurries as a function of temperature

896 | A dry storage cask for utilization of WESF cesium-137 sources Waste management '87: Waste isolation in the US, technical programs, and public education TI <Series/Collective> Volume 3 - Low-level waste

897 | Closure, decontamination, and characterization of canisters of high-activity borosilicate glass. Proceedings of the international topical meeting on nuclear and hazardous waste management

898 | ICARUS-LLNL

899 | Uncertainty analysis on leaching rate measurements of nuclear waste glass. Radioactive waste products - suitability for final disposal. Proceedings

900 | <English> User's manual for SPECTROM-41; a finite-element heat transfer program

901 | Performance Characteristics of a High-Level Solid-State Personnel Dosimetry System in Pulsed Radiation Environments

902 | The effect of porous support composition and operating parameters on the performance of supported liquid membranes

903 | Empirical correlations from waste grout formulation data

904 | Separation and extraction device for mixed radioactive waste water

905 | Experimental method for determining distribution coefficients of TRU nuclides for evaluating their migration behaviors

906 | Results from the DCH-1 (Direct Containment Heating) experiment TI <Augmentation> Pressurized melt ejection and direct containment heating

907 | PH sensors based on iridium oxide

908 | Compatibility of candidate overpack materials with deep argillaceous HLW disposal environments. Materials reliability in the back end of the nuclear fuel cycle. Proceedings of a technical committee meeting held in Vienna, 2-5 September 1986

909 | In situ damage rate evaluation of overpack materials in deep argillaceous HLW disposal environments Improvements in materials reliability in the back end of the nuclear fuel cycle

910 | Methodology for evaluating the aqueous leach resistance of a glass used in a characterization study Radioactive waste products - suitability for final disposal. Proceedings

911 | Measurements of matric and water potentials in unsaturated tuff at Yucca Mountain, Nevada

912 | Coupled heat and mass transfer in unsaturated soil. A potential-based solution.

913 | Review of techniques for partitioning highly active waste

914 | Comparison of under-Pressure and over-Pressure Pulse Tests Conducted in Low-Permeability Basalt Horizons at the Hanford Site, Washington State

915 | Radioactive waste repositories in hard rock aquifers--hydrodynamic aspects

916 | X-ray and visible light transmission as two-dimensional, full-field moisture-sensing techniques: A preliminary comparison TI <Augmentation> Yucca Mountain Project

917 | Byproducts utilization management program. ORNL nuclear waste programs annual progress report for period ending September 30, 1982

918 | WESF Cesium Capsule Behavior at High Temperature or During Thermal Cycling

919 | WESF cesium capsule behavior at high temperature or during thermal cycling

920 | Krypton-85 storage in sputtered-deposited amorphous metals Methods of krypton 85 management TI <Series/Collective> Radioactive waste management. Volume 10

921 | Uranium oxide--iron oxide mixed aerosol experiments in steam--air atmospheres: NSPP Tests 611, 612, 613, and 631, Data record report

922 | Role of Soil Characteristics on Analysis of Water Flow in Shallow Land

923 | Helium-4 model ages for pore fluids from fractured lithologies. Discussion and application. Isotopes of noble gases as tracers in environmental studies TI <Original Series/Collective> Panel proceedings series

924 | Test plan: Heated axisymmetric pillar TI <Augmentation> Waste Isolation Pilot Plant

925 | Development, implementation, and early results: Test Series D, Phase 1 of the small-scale seal performance tests

926 | Sorption of americium in tuff and pure minerals using synthetic and natural groundwaters

927 | Determination of DWPF process stream yield stress and consistency using capillary viscometer technique

928 | Advances in the Department of Energy's Prototypical Consolidation Demonstration Project

929 | Multiparameter testing of permeability by the transient vacuum technique. Coupled processes associated with nuclear waste repositories

930 | Analysis of permeability reduction during flow of heated, aqueous fluid through westerly granite. Coupled processes associated with nuclear waste repositories

931 | Slip-flow experiments in welded tuff TI The Knudsen diffusion problem. Coupled processes associated with nuclear waste repositories

932 | Coupled hydrothermal flows of liquid and vapor in welded tuff TI Numerical modeling of proposed experiment Coupled processes associated with nuclear waste repositories

933 | Field investigation of disturbed zones around excavations by strain distribution measurements. Coupled processes associated with nuclear waste repositories

934 | <English> A study of coupled thermomechanical, thermohydrological, and hydromechanical processes associated with a nuclear waste repository in a fractured rock medium

935 | Permeability and dispersivity of variable-aperture fracture systems.

936 | Crevice corrosion - NaCl concentration map for grade-2 titanium at elevated temperature

937 | <English> Effects of biotite distribution on cesium diffusion in granite

938 | Deep installations of monitoring instrumentation in unsaturated welded tuff. Hydrogeology of rocks of low permeability: Memoirs, Volume 17: Part 2, Proceedings

939 | Waste gas processing device

940 | A melt refining method for uranium-contaminated aluminum

941 | Characteristics of a foil-type electret dosimeter for a surface alpha contamination monitor

942 | Melting treatment device for radioactive waste

943 | Japanese approaches to the assessment of radionuclide migration in the geosphere

944 | Interactions with other fields

945 | Coupled analysis of flow and heat around a high-level nuclear waste repository. Numerical methods in geomechanics

946 | Axial transport effects on natural convection inside of an open-ended annulus

947 | NORDA contribution to the in-situ heat transfer experiment (ISHTE): FY84 annual report. Thermal Response Studies. 1984 Subseabed Disposal Project annual report, October 1983 - September 1984

948 | Alternative preparative methods for sphene glass-ceramics

949 | <English> Thermal migration of brine inclusions in sodium chloride single crystals

950 | Behavior of a Single UO₂ Sphere, Irradiated at Approximately 1900 K in the High Flux Reactor (HFR) at Petten (The Netherlands)

951 | Device for the continuous production of glass bodies especially containing radioactive waste

952 | Avery Island heater tests: measured data for 1000 days of heating

953 | Activity release from waste packages containing ILLW-cemented waste forms under mechanical and thermal stresses. Testing, evaluation and shallow land burial of low and medium radioactive waste form

954 | Early phyllosilicates formed by alteration of R7T7 glass in water at 250 deg C

955 | Geotechnical behaviour of salt under repository conditions Radioactive waste management. Volume 3. Proceedings of an international conference held by the IAEA in Seattle, 16-20 May 1983

956 | Special problems in making geotechnical measurements in salt

957 | Fission Product Release Rates Measured During in-Pile Fuel Damage Tests

958 | Measurements of Thermodynamic Constants of Transuranic Compounds to Predict Their Geochemistry: Carbonate Complexation of Np(V) And Am(III), Hydrolysis of Pu(VI) And Am(III)

959 | Method of determining particle dispersion in nuclear power station coolant

960 | Occupational health, waste management, and environmental research program of the Health Division 1981. Progress report

961 | GMS measurement of B1 liner deformation

962 | Salt pressure derived from GMS-B1 measurements

963 | In-situ experiments on the time dependent thermo-mechanical behaviour of rock salt Design and instrumentation of in situ experiments in underground laboratories for radioactive waste disposal. Proceedings

964 | Specific investigations related to salt rock behaviour Radioactive waste management and disposal

965 | Untersuchungen zur Temperaturfernmesung durch Analyse der Rayleigh-Streuung mit Atomdampffiltern. (Investigations of remote temperature measurement by analysis of Rayleigh scattering with atomic vapor filters) TI <NOTE> Diss

966 | Comparison and Evaluation of Field and Numerical Results from the Site A Heater Test at Avery Island

967 | EXPERIMENTAL CONCRETES FOR SEALING RADIOACTIVE-WASTE REPOSITORIES IN EVAPORITE STRATA.

968 | Measured data from the Avery Island Site C heater test

969 | Three-well technique for determining formation anisotropy at the Waste Isolation Pilot Plant (WIPP), southeast New Mexico TI <Augmentation> Culebra dolomite unit of the Rustler Formation

970 | Thermal monitoring of the cement checking Exotherm and its application to the quality of cemented wastes

971 | Aspects of fluid flow through small flaws in membrane liners

972 | Heatup of the TMI-2 lower head during core relocation

973 | Heatup of the TMI-2 (Three Mile Island-2) Lower Head during Core Relocation

974 | TRU waste-sampling program

975 | Analysis of bellows expansion joints in containment buildings

976 | Evaporation measurement in the validation drift - part 2

977 | The structural response of WIPP disposal room with internal gas generation

978 | The closure of WIPP disposal rooms filled with various waste and backfill combinations

979 | Iodine chemical forms in LWR severe accidents

980 | Use of Fiber Optics for Remote Temperature Measurement in Fission Product Release Tests

981 | Liquid level measurement in high-level nuclear waste slurries

982 | Mathematical Modeling of Heat Transfer in Pu-238 Ion Exchange Columns

983 | Temperature data

984 | Diffusion and permeability used sorption measurements in intact rock samples

985 | Summary report on the release of fission products from irradiated SRP fuel at elevated temperatures

986 | Measurement of the ductile to brittle transition temperature for waste tank cooling coils

987 | Evaluation and development of hydrogeological and geochemical investigation methods for aquifers of low permeability

988 | Development of a grout-based stabilization method for spent high-temperature gas-cooled reactor fuel Waste Management '85: Waste Isolation in the US - Technical Programs and Public Education. Volume 2. Waste policies and programs, low-level waste

989 | Time-dependent microcracking in plutonic rock due to heat from a nuclear-fuel waste vault Research and engineering applications in rock masses. Volume 1

990 | Monitoring of heat and moisture migration from radioactive waste disposed in an augered shaft Waste management '87: Waste isolation in the US, technical programs, and public education TI
<Series/Collective> Volume 1 - General interest

991 | Hydrogeologic impacts of mine design in unsaturated rock

992 | Total-system performance assessment for the Yucca Mountain project

993 | Analysis of pumping test data: Sawyer No. 1; Mansfield No. 1, Zeeck No. 1, and J. Friemel No. 1 wells: Topical report

994 | PRESSURE AND DENSITY MEASUREMENTS OF SELECTED FLUID-BEARING ZONES AT THE WASTE ISOLATION PILOT PLANT (WIPP).

995 | Prediction of Far-Field Subsurface Radionuclide Dispersion Coefficients from Hydraulic Conductivity Measurements: A Multidimensional Stochastic Theory with Application to Fractured Rocks TI <NOTE> Topical technical rept. Sep 81-Dec 83

996 | Numerical modeling of regional ground-water flow in the deep-basin brine aquifer of the Palo Duro Basin, Texas Panhandle

997 | Time-integrated radon soil-gas surveys in geothermal exploration in the Southern Rio Grande Rift, New Mexico. Volume 1; Final report TI
<NOTE> Progress rept

998 | Hydrogeological testing to characterize a fractured granite

999 | 7. international congress on rock mechanics

1000 | Use of a commercial heat transfer code to predict horizontally oriented spent fuel rod temperatures

1001 | Numerically predicting horizontally oriented spent fuel rod surface temperatures

1002 | Measurement of the oxidation of spent fuel between 140/degree/ and 225/degree/C by thermogravimetric analysis

1003 | Measurement of the Oxidation of Spent Fuel between 140 and 225C by Thermogravimetric Analysis

1004 | <English> Natural convection and dispersion in a tilted fracture

1005 | Survivability Tests on a Nuclear Waste Cask in Simulated Railroad Accident Fires TI <NOTE> Final rept.

1006 | Incineration method for plutonium recovery from alpha-contaminated organic compounds

1007 | Numerical analysis of laminar free convection in square cavity containing heat generating Kr-85 gas

1008 | Method for treating radioactive organic wastes

- 1009 | Immobilization of high-level radioactive waste by hydrothermal hot-pressing method Chemical aspects of down stream for thorium fuel cycle
- 1010 | Evaluating reconstruction algorithms for electrical impedance tomography Engineering research and development: Thrust area report, FY 87
- 1011 | Determination of trace amounts of thallium in commercial radioactive ²⁰⁴Tl samples by the Redox sub-superequivalence method of isotope dilution analysis
- 1012 | The effect of liner hydraulic conductivity on disposal cell performance
- 1013 | BWR in-plant emergency responses during degraded core accidents
- 1014 | General view on ceramics in nuclear industry
- 1015 | Pore volume and pore size distribution of cement samples measured by a modified mercury intrusion porosimeter
- 1016 | Dependence of the Actinide Nuclide Buildup on the Coolant Density Height Distribution in the RBMK Core
- 1017 | Gas generation and migration studies involving recently generated ²³⁸Pu-contaminated waste for the TRU Waste Sampling Program
- 1018 | Geotechnical instrumentation requirements for atdepth testing and repository monitoring in tuff
- 1019 | Evaluation of the accuracy of continuum-based computational models in relation to field measurements in welded tuff TI <Augmentation> Jointed welded tuff
- 1020 | Nevada Nuclear Waste Storage Investigations Project: G-Tunnel small-diameter heater experiments: Final report
- 1021 | Summary of Geochemical Measurements Taken in and around the G-Tunnel Underground Facility, NTS (Nevada Test Site)
- 1022 | G-tunnel pressurized slot-testing evaluations. Yucca Mountain Site Characterization Project
- 1023 | G-tunnel pressurized slot-testing evaluations
- 1024 | AMBIENT TEMPERATURE TESTING OF THE G-TUNNEL HEATED BLOCK.
- 1025 | Fixation of strontium on polyantimonic acid
- 1026 | FEHMN 1.0: Finite element heat and mass transfer code

APPENDIX E.
SEARCH RESULTS FOR PHYSICAL PARAMETERS
ON CD-ROM MASTER VENDOR CATALOG

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***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: abrasive *****

*A I M CORP
*ABRASIVE INDUSTRIES INC/BAY STATE ABRASIVE PRODUCTS
*ACCURATE DIAMOND TOOL CORP
*AIR PLACEMENT EQUIPMENT CO INC
*ALLISON ABRASIVES INC
*ALLOY TECHNOLOGY INTERNATIONAL INC
*ALPEX WHEEL CO
*AMERICAN HOFMANN CORP
*AMPSCO-PITTSBURGH CORP/BUFFALO FORGE CO
*ASTRO MET INC
*ATOMERGIC CHEMETALS CORP
*AVERY DENNISON CORP/AVERY SPECIALTY TAPE DIV
*BALDOR ELECTRIC CO/BALDOR MOTORS & DRIVES
*BATES ABRASIVE PRODUCTS INC
*BETHAM CORP
*BINKS MANUFACTURING CO
*BLACK & DECKER CORP/BLACK & DECKER (U S) INC
*BUEHLER LTD
*CARBORUNDUM ABRASIVES NORTH AMERICA
*CARMET CO
*CATAPHOTE INC
*CENTRO-METALCUT INC
*CHEMETRON RAILWAY PRODUCTS INC
*CHICAGO PNEUMATIC TOOL CO/TOOL DIV
*CINCINNATI MILACRON INC/CINCINNATI MILACRON RESIN ABRASIVES
*CINCINNATI MILACRON INC/PRODUCTS DIV
*CLIPPER DIAMOND TOOL CO INC
*COBURN OPTICAL INDUSTRIES INC
*CONTINENTAL SEAL
*COOPER INDUSTRIES INC/COOPER TOOLS DIV (QUALITY TOOLS/EQUIPMENT)
*CRYSTAL MARK INC
*CURTISS-WRIGHT CORP/METAL IMPROVEMENT CO INC
*CUSHION CUT INC

*CUSTOM METAL FABRICATORS INC/VACUBLAST
*CUSTOMEDIX CORP/JENERIC-PENTRON INC
*DARLING INDUSTRIES INC/DURODYNE INC
*DAYTON ABRASIVE PRODUCTS CO
*DELTA/DUCON INTERNATIONAL INC
*DIAMANT BOART
*DISCO HI-TEC AMERICA INC
*DISSTON CO
*DIVERSEY CORP/DU BOIS U S A GROUP
*DIVINE BROTHERS CO
*DOALL CO
*DOALL CO/SOUTHWEST-DOALL INDUSTRIAL SUPPLY CO
*DOVER CORP/DOVER RESOURCES INC/BLACKMER PUMP
*DU PONT CO/CHEMICALS & PIGMENTS
*DU PONT CO/FABRICATED PRODUCTS
*E G & G INC/E G & G FLOW TECHNOLOGY
*EMERSON ELECTRIC CO/SKIL CORP
*EQUIPMENT DEVELOPMENT CO INC
*ERVIN INDUSTRIES INC
*ESSEX GROUP INC/INDUSTRIAL PRODUCTS DIV
*EUTEK SYSTEMS
*FAHRINGER (T L) CO
*FALCON TOOL CO INC
*FAMTEC INTERNATIONAL INC/SPEEDFAM CORP
*FEL-PRO CHEMICAL PRODUCTS L P
*FLEXBAR MACHINE CORP
*G M N/WHITNON SPINDLE DIV
*GENERAC CORP
*GENERAL ELECTRIC CO
*GENERAL ELECTRIC CO/G E SUPERABRASIVES
*GENERAL RESOURCE CORP
*GENERAL TOOLS MANUFACTURING CO INC
*GIBRALTAR NATIONAL CORP
*GO/DAN INDUSTRIES MANUFACTURING CO
*GOODALL RUBBER CO
*GOULDS PUMPS INC
*GRACO INC
*GRAINGER (W W) INC
*GROVER PRODUCTS CO
*GUYSON CORP
*HILTI INC
*HIRSCHMANN CORP
*HYDRO-PAC INC
*IDEAL INDUSTRIES INC
*IDEX CORP/VIKING PUMP INC
*INGERSOLL-RAND CO/WATERJET CUTTING SYSTEMS DIV
*J S J CORP/DAKE CORP
*JASON INC/JACKSON LEA
*JESSOP STEEL CO
*JOHN CRANE INC
*K-LINE INDUSTRIES INC
*KALAMAZOO CO/HAMMOND MACHINERY INC

*KALAMAZOO CO/ROTO-FINISH CO INC
*KANSAS INSTRUMENTS INC
*KUSTM CHEMICAL CORP
*LECO CORP
*LINDSAY (P K) CO INC
*LITTON INDUSTRIES INC/LITTON INDUSTRIAL AUTOMATION/DIAMOND & C B N PRODUCTS
*LITTON INDUSTRIES INC/LITTON INDUSTRIAL AUTOMATION/DISC GRINDERS & ABRASIVES
*LOBEE PUMP & MACHINERY CO
*LOCTITE CORP/AUTOMOTIVE & CONSUMER GROUP
*LORD CORP/CHEMICAL PRODUCTS DIV
*MAC TOOLS INC
*MARTINDALE ELECTRIC CO
*MATCO TOOLS
*MC MASTER-CARR SUPPLY CO
*MERCK & CO INC/KELCO DIV
*METABO CORP
*METAL REMOVAL INDUSTRIAL TOOLING
*MILLER THERMAL INC
*MILWAUKEE ELECTRIC TOOL CORP
*MOORE SPECIAL TOOL CO INC
*MORSE (M K) CO
*MOYCO INDUSTRIES INC
*MULTI MACHINE
*NATIONAL GRINDING WHEEL CO INC
*NORTEL MACHINERY INC
*NORTHEAST INDUSTRIES INC
*NORTON CO/ABRASIVES MARKETING GROUP
*NORTON CO/SAINT-GOBAIN-NORTON INDUSTRIAL CERAMICS CORP
*NU-MATIC GRINDERS INC
*P & F INDUSTRIES INC/FLORIDA PNEUMATIC MANUFACTURING CORP
*PAASCHE AIRBRUSH CO
*PACIFIC GRINDING WHEEL CO INC
*PANGBORN CORP
*PARKER HANNIFIN CORP/FLUIDCONNECTOR PRODUCTS/STRATOFLEX AEROSPACE-MILITARY
CONNECTORS DIV
*PAULI & GRIFFIN CO
*PAXTON (FRANK) LUMBER CO
*PENTAIR CO/DELTA INTERNATIONAL MACHINERY CORP
*PFINGST & CO INC
*PISTORIUS MACHINE CO INC
*POLLARD (JOSEPH G) CO INC
*POLLEY INC/KELCO SALES & ENGINEERING DIV
*POSSIS CORP/JET EDGE INC
*PRECISION PROFILES INC
*PRES-ON PRODUCTS INC/PRES-ON ABRASIVES DIV
*PRES-ON PRODUCTS INC/TAPE & GASKETING DIV
*PROGRESSIVE BLASTING SYSTEMS INC/PROGRESSIVE TECHNOLOGIES
*RADIAC ABRASIVES
*RADIATOR SPECIALTY CO (CAR CARE)
*RED DEVIL INC
*REGAL DIAMOND PRODUCTS CORP
*RICHARDS (J A) CO

*ROBOTICS INC
*RODEL
*ROPER INDUSTRIES INC/ROPER PUMP CO
*ROYAL DIVERSIFIED PRODUCTS INC
*RUEMELIN MANUFACTURING CO INC
*RYMAN ENGINEERING CO
*S I P (U S A) INC
*S P X CORP/BORROUGHS DIV
*SAFE-T-METAL CO INC
*SANBORN MANUFACTURING CO
*SANDVIK SAWS & TOOLS CO
*SANSTORM INC
*SCHNITZER ALLOY PRODUCTS CO
*SEARS ROEBUCK & CO/SEARS INDUSTRIAL SALES DIV
*SERVICE DIAMOND TOOL CO/SERVICE PHYSICAL TESTERS DIV
*SHELDahl INC
*SINCO PRODUCTS INC
*SIOUX TOOLS INC
*SMITH GROUP INC
*SOUTH BEND LATHE INC/DYNABLAST DIV
*STANLEY WORKS/STANLEY AIR TOOLS DIV
*STANT CORP/PLEWS DIV
*STARLITE INDUSTRIES INC
*STARRETT (L S) CO/GRANITE SURFACE PLATE DIV
*STARRETT (L S) CO/WEBBER GAGE DIV
*STOFFEL GRINDING SYSTEMS INC
*STOW MANUFACTURING CO
*STRUERS INC
*SUHNER INDUSTRIAL PRODUCTS CORP
*SUNNEN PRODUCTS CO
*SUPERIOR GRAPHITE CO
*SUPFINA MACHINE CO INC
*SVEDALA INDUSTRIES INC/ALLIS MINERAL SYSTEMS/SALA PUMPS & PROCESS EQUIPMENT
*T E C C CORP
*T M I
*TARGET PRODUCTS INC
*TARGET PRODUCTS INC/FELKER
*TECHNIC INC
*TENNANT
*TESCORP CORP/MOCK (CLIF) CO INC
*THREE M CO (3M)/CONSTRUCTION MARKETS DEPT
*THREE M CO (3M)/ELECTRICAL PRODUCTS DIV
*THREE M CO (3M)/OCCUPATIONAL HEALTH & ENVIRONMENTAL SAFETY DIV
*THREE M CO (3M)/THREE M ABRASIVE SYSTEMS DIV
*THREE M CO (3M)/THREE M HOME & COMMERCIAL CARE DIV
*THREE M CO (3M)/THREE M TELECOM MARKETS DIV
*TIFCO INC/VINCO DIV
*TITAN ABRASIVE SYSTEMS INC
*TITAN TOOL SUPPLY CO INC
*TOOLMEX CORP/TOOL DIV
*TREGASKISS
*TREIBACHER (U S A) CORP/GENERAL ABRASIVE TREIBACHER INC

*TRI-CON INC
*TRITAN CORP
*TUNCO MANUFACTURING INC
*TUTHILL CORP/TUTHILL PUMP DIV
*U S ELECTRICAL TOOL INC
*U S TECHNOLOGY CORP
*UNION CARBIDE CORP/UNION CARBIDE COATINGS SERVICE CORP/ADVANCED CERAMICS
*UNITED ABRASIVES INC
*UNIVERSAL EQUIPMENT MANUFACTURING CO INC
*UNIVERSAL FINISHING MACHINES INC
*UNIVERSAL PHOTONICS INC
*UNIVERSAL SUPERABRASIVES/ELGIN DIV
*UNIVERSAL SUPERABRASIVES/METAL & INDUSTRIAL GRINDING DIV
*VERMONT AMERICAN CORP/VERMONT AMERICAN TOOL CO
*VULCAN ENGINEERING CO/FOX GRINDERS DIV
*WASHINGTON MILLS CERAMICS CORP
*WASHINGTON MILLS ELECTRO MINERALS CORP
*WEN PRODUCTS INC
*WHEELABRATOR TECHNOLOGIES INC/WHEELABRATOR CORP
*WILCO SUPPLY CO
*WILSON (THOMAS C) INC
*WILTON CORP/MACHINERY & TOOL
*WOOD (MORRIS) TOOL CO INC
*YEOMANS CHICAGO CORP

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: corrosive *****

*A S E A BROWN BOVERI -INC/A B B KENT-TAYLOR
*AALBORG INSTRUMENTS & CONTROLS INC
*AIR PRODUCTS & CHEMICALS INC/INDUSTRIAL GAS DIV/SCHUMACHER
*AMPCO-PITTSBURGH CORP/BUFFALO FORGE CO
*ANAMET INC
*ANCHOR PACKING CO
*ANCO TECH INC
*ARMSTRONG INTERNATIONAL INC
*ASAHI/AMERICA INC
*BAILEY CONTROLS CO
*BAKER HUGHES INC/BAKER HUGHES PRODUCTION TOOLS/BAKER C A C/PNEU-HYDRO
PRODUCTS INC
*BARNEBEY & SUTCLIFFE CORP
*BINKS MANUFACTURING CO
*CACTUS PAINT MANUFACTURING CO INC
*CARPENTER TECHNOLOGY CORP/CARPENTER STEEL DIV
*CHEM-TEC EQUIPMENT CO INC
*CHESTERTON (A W) CO
*COLTEC INDUSTRIES INC/DELAVAN ELECTRONICS, PROCESS INSTRUMENTATION OPERATION
*COLTEC INDUSTRIES INC/GARLOCK MECHANICAL PACKING DIV
*COMMERCIAL INTERTECH CORP/CUNO INC, PROCESS FILTRATION PRODUCTS
*CRUCIBLE MATERIALS CORP/TRENT TUBE DIV
*DRESSER INDUSTRIES INC/INDUSTRIAL INSTRUMENT OPERATIONS
*DWYER INSTRUMENTS INC
*EMERSON ELECTRIC CO/BROOKS INSTRUMENT DIV
*EMERSON ELECTRIC CO/WIEGAND (EDWIN L) DIV
*F S I INTERNATIONAL
*FAIRCHILD INDUSTRIAL PRODUCTS CO
*FALEX CORP
*FAST HEAT ELEMENT MANUFACTURING CO INC
*FOX VALVE DEVELOPMENT CO INC
*G F S CHEMICALS INC
*GENERAL VALVE CORP
*GORMAN-RUPP CO
*GRINNELL SUPPLY SALES CO
*HANSON INDUSTRIES/HALKEY-ROBERTS CORP
*I T T CORP/I T T FLUID TECHNOLOGY CORP/I T T CONOFLOW
*INLAND STEEL INDUSTRIES INC/TULL (J M) METALS CO INC
*JESSOP STEEL CO
*K I P INC
*KETEMA CORP/SCHUTTE & KOERTING DIV
*KROHNE-AMERICA INC
*MALLINCKRODT INC/MALLINCKRODT SPECIALTY CHEMICALS CO/PERFORMANCE & LABORATORY
CHEMICALS

*MATERIAL CONTROL INC
*MATHESON GAS PRODUCTS INC
*MERCK & CO INC/CALGON CORP
*NU-TECH PRECISION METALS (U S A) INC
*NUMATICS INC/NUMATICS ACTUATOR
*OMEGA ENGINEERING INC
*PALL CORP/MECTRON INDUSTRIES INC
*PARKER HANNIFIN CORP/FLUIDCONNECTOR PRODUCTS/PARFLEX DIV
*PARKER HANNIFIN CORP/FLUIDPOWER PRODUCTS/COMMERCIAL FILTERS DIV
*PARKER HANNIFIN CORP/REFRIGERATION COMPONENTS GROUP/FLUIDEX DIV
*PARKER HANNIFIN CORP/REFRIGERATION COMPONENTS GROUP/REFRIGERATION & AIR
 CONDITIONING DIV
*PLAS-CHEM COATINGS INC
*PURAFIL INC
*RACINE FEDERATED INC/HEDLAND PRODUCTS DIV
*ROBBINS & MYERS INC/FLUIDS HANDLING GROUP
*RUST-OLEUM CORP
*SCANIVALVE CORP
*SCHLEYER (E C) PUMP CO INC
*SEALING EQUIPMENT PRODUCTS CO
*SIEBE NORTH INC/ROBERTSHAW TENNESSEE
*SPECTRA GASES INC
*TELEDYNE INC/TELEDYNE HASTINGS-RAYDIST
*TELEDYNE INC/TELEDYNE REPUBLIC/SPRAGUE
*TESCORP CORP/MOCK (CLIF) CO INC
*U S PARA PLATE CORP/APCO CONTROLS DIV
*UEHLING INSTRUMENT CO
*UNIROYAL TECHNOLOGY CORP/ENSOLITE INC
*UNIVERSAL FLOW MONITORS INC
*VENTFABRICS INC
*WAHL INSTRUMENTS INC
*WHITMAN CONTROLS CORP
*YEOMANS CHICAGO CORP

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: density *****

*A A R CORP/A A R BROOKS & PERKINS/ADVANCED STRUCTURES DIV
*A D C TELECOMMUNICATIONS INC
*ADJUSTABLE STEEL PRODUCTS CO INC
*ALLIED RESINOUS PRODUCTS INC
*AMERACE ELECTRONIC COMPONENTS
*AMERICAN CYANAMID CO/D AIRCRAFT PRODUCTS INC
*AMP-AKZO CORP/RIVERHEAD CIRCUITS
*ANACOMP INC/XIDEX CORP
*ANALTECH INC
*ANDOVER CORP
*ARCCO INSTRUMENT CO INC
*ASAHI/AMERICA INC
*ASHLAND OIL INC/ASHLAND CHEMICAL INC/THERMOPLASTIC SERVICES DIV
*ASSURANCE TECHNOLOGIES INC/ROENTGEN INDUSTRIAL CORP
*AUGAT INC/AUGAT COMMUNICATIONS GROUP INC
*AUGAT INC/INTERCONNECTION PRODUCTS GROUP
*B A S F CORP/INFORMATION SYSTEMS
*B I C C-VERO ELECTRONICS INC
*B Y K-GARDNER INC
*BELL & HOWELL CO/DOCUMENT MANAGEMENT PRODUCTS CO
*BERTHOLD SYSTEMS INC
*BETA INDUSTRIES INC/BETA SCREEN CORP
*BIO-RAD LABORATORIES
*BRABENDER (C W) INSTRUMENTS INC
*BRINKMANN INSTRUMENTS INC
*BROOKLYN THERMOMETER CO INC
*C & M CORP
*C V I LASER CORP
*CAMBRIDGE PRODUCTS CORP
*CARGILLE (R P) LABORATORIES INC
*CERAMIC MAGNETICS INC
*CHAMPION TECHNOLOGIES INC
*CHEVRON CORP/CHEVRON CHEMICAL CO/OLEFINS & DERIVATIVES DIV
*CIBA-CORNING DIAGNOSTICS CORP/GILFORD SYSTEMS
*CIRCUIT ASSEMBLY CORP
*COLE-PARMER INSTRUMENT CO
*COMMERCIAL PLASTICS & SUPPLY CORP
*COMPUTER INSTRUMENTS CORP
*CONSOLIDATED ELECTRONIC WIRE & CABLE INC
*CONTACT ELECTRONICS INC
*CORION CORP
*D S M ENGINEERING PLASTICS
*DIAGNOSTIC-RETRIEVAL SYSTEMS INC/PHOTRONICS CORP

*DOW CHEMICAL CO
*DU PONT CANADA INC/PLASTICS DIV
*DU PONT CO/ELECTRONIC PRODUCTS (MODULAR INTERCONNECTION SYSTEMS)
*E G & G INC/E G & G SPECIAL PROJECTS
*E G & G PROCESS MEASUREMENT CHANDLER
*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*EASTMAN KODAK CO/EASTMAN CHEMICAL CO
*EDAC INC
*ELECTRONIC CONTROLS DESIGN INC
*ELECTRONIC SYSTEMS ENGINEERING CO
*EMERSON ELECTRIC CO/ROSEMOUNT INC/KAY-RAY, SENSALL INC
*ENTRELEC INC
*ENVIROTECH CORP/T N TECHNOLOGIES INC
*EUCLID CHEMICAL CO
*EVER READY THERMOMETER CO INC
*FIBER MATERIALS INC
*FISH-SCHURMAN CORP
*FISHER SCIENTIFIC
*FURON CO/DEKORON
*GAMMON TECHNICAL PRODUCTS INC
*GENERAL MICROWAVE CORP
*GOW-MAC INSTRUMENT CO
*GRAPHICS MICROSYSTEMS INC
*GREAT LAKES PLASTIC CO INC
*H-B INSTRUMENT CO
*HALLIBURTON CO/HALLIBURTON SERVICES DIV/SPECIAL PRODUCTS DIV
*HALLIBURTON LOGGING SERVICES INC
*HEITZ (KARL) INC
*HEWLETT-PACKARD CO/MEDICAL PRODUCTS GROUP
*HOGEN INDUSTRIES INC
*HOLLYWOOD FILM CO
*HOMACO INC
*HONEYWELL INC/COMMERCIAL BUILDINGS GROUP
*HOUSTON FEARLESS SEVENTY SIX (76) INC
*HUMBOLDT MANUFACTURING CO
*I L C TECHNOLOGY INC
*I M B C O CORP
*IDEAL INDUSTRIES INC
*ILLINOIS TOOL WORKS INC/I T W PLASTIGLIDE MANUFACTURING DIV
*INLAND STEEL INDUSTRIES INC/RYERSON (JOSEPH T) & SON INC
*INTEGRATED DEVICE TECHNOLOGY INC
*J A E ELECTRONICS INC
*JANOS TECHNOLOGY INC
*KAHL SCIENTIFIC INSTRUMENT CORP
*KEITHLEY INSTRUMENTS INC/INSTRUMENTS DIV
*KESSLER (WALTER H) CO INC
*KETEMA CORP/SCHUTTE & KOERTING DIV
*KOehler INSTRUMENT CO INC
*KOLLMORGEN CORP/MACBETH
*KONICA MEDICAL CORP
*KULITE TUNGSTEN CORP
*KYOCERA INTERNATIONAL INC/ELCO CORP

*L-K INDUSTRIES INC
*L P L TECHNOLOGIES INC/AMPHENOL CORP, INDUSTRIAL TECHNOLOGY DIV
*LABCONCO CORP
*LITTON INDUSTRIES INC/WINCHESTER ELECTRONICS DIV
*LONGYEAR CO/BRAINARD-KILMAN DRILL CO
*LUXTRON CORP
*M FOUR (M4) DATA INC
*MANDOVAL VERMICULITE PRODUCTS INC
*MATERIAL CONTROL INC
*MELLES GRIOT
*METAVAC INC
*METRUM INFORMATION STORAGE
*METTLER-TOLEDO INC
*MICRO MOTION INC
*MICROPAC INDUSTRIES INC
*MOLEX INC
*MONMOUTH PLASTICS INC
*MOUNTAIN NETWORK SOLUTIONS INC
*NASHUA OFFICE PRODUCTS
*NATIONAL PARTICLEBOARD ASSOCIATION
*NETWORK EQUIPMENT TECHNOLOGIES INC
*NEWAGE INDUSTRIES INC/PLASTICS DIV
*NEWPORT SCIENTIFIC INC
*NORLAND CORP
*NORWESCO INC/NORWESCO INTERCONNECTS DEVICES
*OHMART CORP
*OMEGA ENGINEERING INC
*OMEGA OPTICAL INC
*ORIEL CORP
*ORTRONICS INC
*OWENS-ILLINOIS INC/KIMBLE GLASS INC
*PANDUIT CORP
*PARKER HANNIFIN CORP/FLUIDCONNECTOR PRODUCTS/PARFLEX DIV
*PARKER HANNIFIN CORP/FLUIDPOWER PRODUCTS/SCHRADER BELLOWS DIV
*PASS & SEYMOUR/LEGRAND
*PERITEK CORP
*PHARMACIA INC/PHARMACIA BIOTECH INC
*PHILLIPS PETROLEUM CO/PHILLIPS SIXTY-SIX (66) CO/PHILLIPS PLASTICS RESINS
*POLAROID CORP/POLARIZER DIV
*PORTA SYSTEMS CORP
*PRECISION CONNECTOR DESIGNS INC
*PRECISION OPTICAL CO
*PRECISION PAPER TUBE CO
*PRINCO INSTRUMENTS INC
*QUANTUM CHEMICAL CORP/U S I DIV
*QUIKRETE CO
*RACAL-DANA INSTRUMENTS INC
*RAYTHEON CO/SEMICONDUCTOR DIV
*RESEARCH INC
*REXENE CORP/REXENE PRODUCTS CO
*REYNARD CORP
*RIEDE SYSTEMS INC

*ROCKWELL INTERNATIONAL CORP/ALLEN-BRADLEY CO
*ROLYN OPTICS CO
*SCHLUMBERGER LTD/SCHLUMBERGER WELL SERVICES
*SCHOTT GLASS TECHNOLOGIES INC
*SCIENTIFIC GLASS & INSTRUMENTS INC
*SCIENTIFIC INSTRUMENTS INC
*SCIENTIFIC SPECIALTIES SERVICE INC
*SCLAVO INC
*SEAMAN NUCLEAR CORP
*SENCENBAUGH WIND ELECTRIC CO
*SHIMADZU SCIENTIFIC INSTRUMENTS INC
*SIEBE INC/FOXBORO CO
*SPECIAL OPTICS
*SPECIALTY PAPERBOARD INC/PRESSBOARD PRODUCTS DIV
*SPEEDRACK PRODUCTS GROUP LTD
*STRANDBERG ENGINEERING LABORATORIES INC
*SUNDSTRAND CORP/SUNDSTRAND DATA CONTROL/INSTRUMENT SYSTEMS
*SUPREME EQUIPMENT & SYSTEMS CORP
*SYBRON CORP/NALGE CO
*SYNDEVCO INC
*T D K CORP
*TEAC AMERICA INC
*TEKA INTERCONNECTION SYSTEMS INC
*TEMP-FLEX CABLE INC
*TERADYNE INC/CONNECTION SYSTEMS INC
 TEXTRON INC/TEXTRON DEFENSE SYSTEMS/OPTO ELECTRONICS
*THOMAS & BETTS CORP/ELECTRONICS DIV
*THREE M CO (3M)/OFFICE DOCUMENT SYSTEMS DIV
*TRANSISTOR DEVICES INC
*UEHLING INSTRUMENT CO
*UNISYS CORP/CONVERGENT INC/CONVERGENT TECHNOLOGIES INC
*VACUMET CORP
*VALMET AUTOMATION (USA) INC
*VANCO CONNECTOR CORP
*VIRGINIA PANEL CORP
*VISUAL ELECTRONICS CORP/STACOR CORP
*VOITH INC/PAPER MACHINE EQUIPMENT
*WAGER (ROBERT H) CO INC
*WATERS INSTRUMENTS INC
*WHITE STORAGE & RETRIEVAL SYSTEMS INC
*WINSLOW INC
*WIRE-PRO INC/GARRY ELECTRONICS
*WITCO CORP/HUMKO CHEMICAL DIV
*X-RITE INC
*YUASA EXIDE INC
*Z Y P COATINGS INC
*ZERO CORP/SCANBE

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: moisture *****

*A I TECHNOLOGY INC
*ABBEY HOME HEALTHCARE
*ADHESIVES RESEARCH INC
*ADVANCED MOISTURE TECHNOLOGY INC
*AIRCO GASES
*ALLIEDSIGNAL INC/ENGINEERED MATERIALS/SPECIALTY FILMS
*AMERICAN TAR CO
*APPLIED POLYMERS OF AMERICA INC
*AQUA-CHEM INC/CLEAVER-BROOKS DIV
*AQUA MEASURE INSTRUMENT CO/MOISTURE REGISTER PRODUCTS DIV
*ARMSTRONG INTERNATIONAL INC/WARRICK CONTROLS INC
*ATLAS COPCO CONSTRUCTION & MINING NORTH AMERICA
*B A S F CORP/POLYMERS PLASTIC FOAMS
*B Y K-GARDNER INC
*BALER EQUIPMENT CO
*BEACH FILTER PRODUCTS INC
*BECKMAN INSTRUMENTS INC/BIOANALYTICAL SYSTEMS GROUP
*BEN MEADOWS CO
*BERKSHIRE HATHAWAY INC/SCOTT FETZER CO/ADALET-P L M
*BERTHOLD SYSTEMS INC
*BRABENDER (C W) INSTRUMENTS INC
*BRINKMANN INSTRUMENTS INC
*BROD-DUGAN CO
*CHANCE (A B) CO
*CHEMREX INC/SONNEBORN BUILDING PRODUCTS
*CLIMATRONICS CORP
*COLE HERSEE CO
*COLTENE/WHALEDENT INTERNATIONAL DIV
*COLUMBIA MACHINE INC
*COMPONENTS CORP OF AMERICA/STACOSWITCH INC
*CONSTRUCTION SPECIFICATIONS INSTITUTE INC (MANUAL OF PRACTICE/MASTERFORMAT)
CONSTRUCTION SPECIFICATIONS INSTITUTE INC (SPECTEXT DIVISIONS 5-8)
CONSTRUCTION SPECIFICATIONS INSTITUTE INC (SPECTEXT DIVISION 16/SPECTEXT II)
*CONSTRUCTION SPECIFICATIONS INSTITUTE INC (SPEC-DATA/MANU-SPEC)
*CONTROL CORP OF AMERICA
*COSA INSTRUMENT CORP
*COTTRELL PAPER CO INC
*D S M CHEMICALS NORTH AMERICA INC
*DELMHORST INSTRUMENT CO
*DU PONT CO/MAINTENANCE FINISHES
*DURICHLOR 51 ANODE CO
*DURON INC
*E G & G INC/E G & G MOISTURE & HUMIDITY SYSTEMS
*E G. & G INC/E G & G ROTRON INDUSTRIAL DIV

*E G & G PROCESS MEASUREMENT CHANDLER
*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*EATON CORP/AEROSPACE CONTROLS DIV
*EATON CORP/CONTROLS DIV
*ELECTROMATIC EQUIPMENT CO INC
*ELLIS/KUHNKE INC
*EMERSON ELECTRIC CO/ALCO CONTROLS DIV
*EMERSON ELECTRIC CO/ROSEMOUNT ANALYTICAL INC
*EMERSON ELECTRIC CO/ROSEMOUNT ANALYTICAL INC (NEW JERSEY)
*EMERSON ELECTRIC CO/ROSEMOUNT INC/KAY-RAY, SENSALL INC
*ENDRESS & HAUSER INSTRUMENTS
*ENVIROTECH CORP/T N TECHNOLOGIES INC
*ERCONA CORP
*ESSEX GROUP INC/INDUSTRIAL PRODUCTS DIV
*EUCLID CHEMICAL CO
*EUTEK SYSTEMS
*F S I INTERNATIONAL
*FAST HEAT ELEMENT MANUFACTURING CO INC
*FISHER SCIENTIFIC
*FLUID DATA INC
*FORTE TECHNOLOGY INC
*FOSS FOOD TECHNOLOGY CORP
*FOX INDUSTRIES INC
*FUJIKOKI AMERICA INC
*FULLER (H B) CO/FOSTER PRODUCTS CORP
*GENERAL FIBERGLASS SUPPLY INC/EPIC RESINS DIV
*GENERAL KINETICS INC/FOOD TECHNOLOGY CORP
*GRISWOLD CONTROLS
*GULF STATES ASPHALT CO INC
*GUNNEBO FASTENING CORP
*HAMWORTHY USA INC/EAGLE COMPRESSORS INC
*HASLER-TEL CO INC
*HENRY VALVE CO INC
*HEXCEL CORP/CHEMICAL PRODUCTS DIV, RESIN CHEMICALS GROUP
*HUMBOLDT MANUFACTURING CO
*ILLINOIS TOOL WORKS INC/SIMCO CO INC
*IMO INDUSTRIES INC/AEROPRODUCTS DIV
*INTEL CORP (MICROPROCESSORS/PERIPHERALS)
*INTEL CORP (MEMORIES/PLD/MICROCOMMUNICATIONS/DEV TOOLS)
*INTERNATIONAL E P D M RUBBER ROOFING SYSTEMS INC
*IRROMETER CO INC
*J & W SCIENTIFIC INC
*JAMES INSTRUMENTS INC
*KALTEC SCIENTIFIC INC
*KENDALL CO/POLYKEN DIV
*KOEHLER INSTRUMENT CO INC
*LAB GLASS
*LECO CORP
*LEYBOLD VACUUM PRODUCTS INC
*LOCTITE CORP
*LONGYEAR CO/BRAINARD-KILMAN DRILL CO
*LORD CORP/CHEMICAL PRODUCTS DIV

*LORENTZEN & WETTRE U S A INC
*LUCAS AEROSPACE POWER TRANSMISSION CORP
*LUXTRON CORP
*M/K SYSTEMS INC
*MAGNETEK INC/MAGNETEK CONTROLS/B-W CONTROLS
*MALLINCKRODT INC/MALLINCKRODT MEDICAL INC/MALLINCKRODT ANESTHESIA PRODUCTS
*MATHESON GAS PRODUCTS INC
*MEADOWS. (W R) INC
*MET-PRO CORP/DUALL DIV
*METAL GOODS MANUFACTURING CO
*METTLER-TOLEDO INC
*MINERAL INSULATION MANUFACTURERS ASSOCIATION INC
*MISSOURI RESEARCH LABORATORIES INC/HESCO DIV
*NAMCO CONTROLS CORP
*NASHUA CORP/INDUSTRIAL TAPE DIV
*NATIONAL STARCH & CHEMICAL CORP/ABLESTIK LABORATORIES
*NITTO DENKO CO/PERMACEL
*NOX-CRETE CHEMICALS INC
*OHAUS CORP
*OHMART CORP
*OLIN CORP/CHEMICALS GROUP
*ORION RESEARCH INC
*OTTO ENGINEERING INC/OTTO CONTROLS DIV
*PANAMETRICS INC
*PARAMOUNT INDUSTRIES INC
*PARKER HANNIFIN CORP/FLUIDCONNECTOR PRODUCTS/HOSE PRODUCTS DIV
*PARKER HANNIFIN CORP/FLUIDPOWER PRODUCTS/PNEUMATIC DIV
*PARKER HANNIFIN CORP/REFRIGERATION COMPONENTS GROUP/REFRIGERATION & AIR
 CONDITIONING DIV
*PARMATIC FILTER CORP/PARMATIC POLLUTION CONTROL CORP
*PENNSYLVANIA SEPARATOR CO
*PERMAGILE INDUSTRIES INC/PERMAGILE EPOXIES DIV
*PERRY EQUIPMENT CORP
*PHILLIPS PETROLEUM CO/PHILLIPS FIBERS CORP
*PIONEER AIR SYSTEMS INC
*PNEUMATIC PRODUCTS CORP
*POLYMERIC SYSTEMS INC
*PREMIER INDUSTRIAL CORP/WESTERN FIRE EQUIPMENT CO
*QUINN (K J) & CO INC
*R & D SEPARATIONS INC
*R P M INC/CARBOLINE CO, SUBOX DIV
*RETAWMATIC CORP
*REYNOLDS INDUSTRIES INC
*RICHMOND TECHNOLOGY INC
*SCHOEN INDUSTRIES INC/RESIST-A-CHEM INC
*SCHULLER INTERNATIONAL INC/MANVILLE ROOFING SYSTEMS DIV
*SCIENTIFIC GLASS & INSTRUMENTS INC
*SCOTT SPECIALTY GASES INC
*SEALANT/WATERPROOFING & RESTORATION INSTITUTE (SWRI)
*SEAMAN NUCLEAR CORP
*SHERWIN-WILLIAMS CO/STORES DIV/PROFESSIONAL COATINGS DEPT
*SIEBE INC/BARBER-COLMAN CO, AEROSPACE & POWER CONTROLS DIV

*SIEBE INC/FOXBORO CO
*SIERRA-MISCO INC
*SOLAR COMPOUNDS CORP
*SPARTON CORP/SPARTON TECHNOLOGY INC
*SPORLAN VALVE CO
*STANADYNE AUTOMOTIVE CORP/DIESEL SYSTEMS DIV
*STARKEY LABORATORIES
*STEELCOTE MANUFACTURING CO
*STEINEN (W M) MANUFACTURING CO/MC INTIRE CO
*STO-COTE PRODUCTS INC
*STRANDBERG ENGINEERING LABORATORIES INC
*SYMPLECTICS INC
*T S I INC/HANDAR INC
*TED MANUFACTURING CORP
*TELEDYNE INC/TELEDYNE ANALYTICAL INSTRUMENTS
*TEXMASTIC INTERNATIONAL INC
*TORO CO/IRRIGATION DIV
*UNION CAMP CORP/CONTAINER DIV
*VACUUM/ATMOSPHERES CO
*VALMET AUTOMATION (USA) INC
*VALSPAR CORP/MC CLOSKEY DIV
*VECTOR CORP
*VELCRO U S A INC
*WATROUS & CO INC
*WHITE (DAVID) INC
*WIREKRAFT
*WITCO CORP/KENDALL REFINING CO
*ZURN INDUSTRIES INC/GENERAL AIR DIV

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: pH *****

*A F L INDUSTRIES INC
*A S E A BROWN BOVERI INC/A B B KENT-TAYLOR
*A T S SALES INC/WATER KING DIV
*A V L SCIENTIFIC CORP
*ALDOA CO
*ALPHA-M CORP
*ANALOGIC CORP/MEASUREMENT & CONTROL DIV
*ARMCO INC
*ARTESIAN WATER CONDITIONING INC
*B Y K-GARDNER INC
*BAILEY CONTROLS CO
*BAKER HUGHES INC/BAKER HUGHES DRILLING EQUIPMENT/MILPARK DRILLING FLUIDS
*BARNANT CO
*BECKMAN INSTRUMENTS INC/BIOANALYTICAL SYSTEMS GROUP
*BEN MEADOWS CO
*BERNITE PRODUCTS INC
*BETZ ENERGY CHEMICALS INC
*BRINKMANN INSTRUMENTS INC
*CAPITAL CONTROLS CO INC
*CARPENTER TECHNOLOGY CORP/CARPENTER STEEL DIV
*CHEM SERVICE INC
*CIBA-CORNING DIAGNOSTICS CORP/GILFORD SYSTEMS
*CINE MAGNETICS INC/F R CHEMICALS DIV
*COLE-PARMER INSTRUMENT CO
*COMMERCIAL INTERTECH CORP/CUNO INC, PROCESS FILTRATION PRODUCTS
*CONOPTICS INC
*CONTROL TECHNIQUES/E C S
*COROMETRICS MEDICAL SYSTEMS INC
*CRANE CO/COCHRANE ENVIRONMENTAL SYSTEMS
*DEVAR INC/CONTROL PRODUCTS DIV
*DIEDRICH TECHNOLOGIES INC
*DU PONT CO/PETROCHEMICALS
*E I T
*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*ELECTROCHEMICALS INC
*EMERSON ELECTRIC CO/ROSEMOUNT ANALYTICAL INC (NEW JERSEY)
*EXTECH INSTRUMENTS CORP
*FISCHER & PORTER CO
*FISHER SCIENTIFIC
*FISHER SCIENTIFIC CO/EDUCATIONAL MATERIALS DIV
*G F S CHEMICALS INC
*GALLARD-SCHLESINGER INDUSTRIES INC
*GAM RAD INC/GAM RAD WEST INC

*GARDINER METAL CO/GARDINER SOLDER CO
*GENERAL SIGNAL CORP/LEEDS & NORTHRUP
*GEORGE FISCHER CORP/GEORGE FISCHER SIGNET INC
*GEORGIA-PACIFIC CORP/GEORGIA-PACIFIC RESINS INC
*H N U SYSTEMS INC
*HARCO TECHNOLOGIES CORP
*HASLER-TEL CO INC
*HEATBATH CORP
*HONEYWELL INC/MICRO SWITCH DIV
*HORIBA INSTRUMENTS INC
*HUMBOLDT MANUFACTURING CO
*I C N PHARMACEUTICALS INC/I C N BIOMEDICALS INC
*INTERNATIONAL DIOXIDE INC
*JOHNSON YOKOGAWA CORP
*LIQUID CARBONIC
*LONDON CHEMICAL CO INC
*MALLINCKRODT INC/MALLINCKRODT SPECIALTY CHEMICALS CO/PERFORMANCE & LABORATORY CHEMICALS
*MARK IV INDUSTRIES INC/L F E INSTRUMENTS
*MERCK & CO INC/CALGON CORP
*MET-PRO CORP/DEAN PUMP DIV
*MICRO ESSENTIAL LABORATORY INC
*MIDWEST AIR PRODUCTS CO
*MYRON L CO
*NEWPORT ELECTRONICS INC
*NORCROSS CORP
*OMEGA ENGINEERING INC
*ORION RESEARCH INC
*P S E INTERNATIONAL INC
*PARKER SYSTEMS INC
*PENNSYLVANIA SEPARATOR CO
*PLATING RESOURCES INC
*POLYSCIENCES INC
*PREMIER SERVICES CORP
*PRESTO-TEK CORP
*PRO SO CO INC
*PROMEGA CORP
*PULSAFEEDER INC/MORR CONTROL
*RICCA CHEMICAL CO
*RONTONICS MFG INC/RMI-P/PLASTECH
*ROYCE INSTRUMENTS CORP
*SCHOTT CORP/GREAT LAKES INSTRUMENTS INC
*SEA-BIRD ELECTRONICS INC
*SERFILCO LTD
*SIEBE INC/FOXBORO CO
*SNAP-TITE INC/VALVE DIV
*SPECTRUM CHEMICAL MANUFACTURING CORP
*STEELCOTE MANUFACTURING CO
*STETCO INC
*STETSON (M D) CO
*SUNDSTRAND CORP/MILTON ROY CO/LIQUID METRONICS INC
*SUNDSTRAND CORP/SULLAIR CORP

*SUPERIOR TUBE CO
*T B I-BAILEY CONTROLS CO
*T M ANALYTIC INC
*TECHNIC INC
*V W R CORP/V W R SCIENTIFIC
*VARIAN ASSOCIATES INC/INSTRUMENT GROUP
*VIRTIS CO INC
*WALCHEM CORP
*WATER RESOURCES INTERNATIONAL INC
*WHATMAN INC
*WHEATON INDUSTRIES/WHEATON DIV
*WITCO CORP/ALLIED-KELITE DIV
*WORLD PRECISION INSTRUMENTS INC
*YELLOW SPRINGS INSTRUMENT CO INC

***** VENDOR RESULTS LIST REPORT *****
***** -----
***** Based on the following search criteria: *****
***** Product Terms: porosity *****

*MICROMERITICS INSTRUMENT CORP
*MOTT METALLURGICAL CORP
*OSMONICS INC
*RADIAC ABRASIVES
*S S I TECHNOLOGIES INC
*SCHLUMBERGER LTD/SCHLUMBERGER WELL SERVICES
*TELEDYNE INC/TELEDYNE GURLEY
*TESTING MACHINES INC

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: rheology *****

*BRABENDER (C W) INSTRUMENTS INC
*METTLER-TOLEDO INC
*MORTON INTERNATIONAL INC/SPECIALTY CHEMICALS GROUP
*RHEOMETRICS INC

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: shear rate *****

*ALLIEDSIGNAL INC/ALLIEDSIGNAL AEROSPACE CO/GUIDANCE SYSTEMS DIV/BENDIX
CHESHIRE OPNS

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: shear strength *****

*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: shear wave *****

*BISON INSTRUMENTS INC

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: stress *****

*AKZO AMERICA INC/AKZO COATINGS INC
*ALGOMA STEEL INC
*AMERACE CORP/ELASTIMOLD PRODUCTS
*APPLIED TEST SYSTEMS INC
*BERKSHIRE HATHAWAY INC/SCOTT FETZER CO/ADALET-P L M
*BRUEL & KJAER INSTRUMENTS INC
*CARPENTER TECHNOLOGY CORP/CARPENTER STEEL DIV
*CHARIS CORP
*CLARK-RELIANCE CORP/JACOBY-TARBOX DIV
*COLLINS (WARREN E) INC
*DEKTOR COUNTER-INTELLIGENCE & SECURITY INC
*DEPOSITION SCIENCES INC
*DORLEC CORP
*DU PONT CANADA INC/PLASTICS DIV
*EATON CORP/ENGINEERED FASTENERS DIV
*EATONCARE TELEMETRY INC
*ELECTROCOM/GARD LTD
*FEL-PRO CHEMICAL PRODUCTS L P
*FLUXATRON SYSTEMS INTERNATIONAL
*FREEMAN MANUFACTURING CO
*GAERTNER SCIENTIFIC CORP
*GENERAL SIGNAL CORP/BLUE M ELECTRIC
*GENRAD INC/STRUCTURAL TEST PRODUCTS
*H B M INC
*HARVARD INDUSTRIES INC/ELASTIC STOP NUT DIV
*HAWARD CORP
*INDEPENDENT TESTING LABORATORIES INC
*INTERNATIONAL PAPER/WOOD PRODUCTS DIV
*K S AVIONICS INC
*KULITE SEMICONDUCTOR PRODUCTS INC
*LA BELLE INDUSTRIES INC/QUEST TECHNOLOGIES
*LITTON INDUSTRIES INC/LITTON POLY-SCIENTIFIC/SLIP RING PRODUCTS
*MAC NEAL-SCHWENDLER CORP
*MAXWELL LABORATORIES INC/S-CUBED DIV
*MECHANICAL TECHNOLOGY INC/L A B
*MECHANICAL TECHNOLOGY INC/LING ELECTRONICS INC
*MONMOUTH PLASTICS INC
*OMEGA ENGINEERING INC
*P P G INDUSTRIES INC/COATINGS & RESINS
*PLYMOUTH RUBBER CO INC/PLYMOUTH/BISHOP INSULATING PRODUCTS
*POLYGON CO
*POLYMER LABORATORIES INC/THERMAL SCIENCES DIV
*PRICE BROTHERS CO

*PUBLICKER INDUSTRIES INC/ASSOCIATED TESTING LABORATORIES
*RAWLPLUG CO INC
*RELIANT HEATING & CONTROLS INC
*RESEARCH INC
*ROCTEST INC
*RUDOLPH INSTRUMENTS INC
*SATEC SYSTEMS INC
*SIGMA TEST LABORATORIES
*SLOPE INDICATOR CO
*SOLTEC CORP
*SOLTEC CORP/KYOWA PRODUCTS DIV
*SOUTHERN PINE INSPECTION BUREAU (SPIB)
*STOELTING CO
*STRESS RELIEF ENGINEERING CO
*T E C
*TELEDYNE INC/TELEDYNE BROWN ENGINEERING
*TELEDYNE INC/TELEDYNE BROWN ENGINEERING/TELEDYNE ENGINEERING SERVICES DIV
*TELEDYNE PITTSBURGH TOOL STEEL
*U S NATURAL RESOURCES INC/IRVINGTON-MOORE FOREST PRODUCTS DIV
*UNION METAL CORP
*V S R INC
*VALLEN CORP/ENCON SAFETY PRODUCTS
*VENTUREDYNE LTD/THERMOTRON INDUSTRIES
*VISHAY INTERTECHNOLOGY INC/MEASUREMENTS GROUP INC
*WESTERN WOOD PRODUCTS ASSOCIATION (WWPA)

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: strength *****

*A V O INTERNATIONAL
*AIMSCO INC
*ALGOMA STEEL INC
*AMERICAN CYANAMID CO/D AIRCRAFT PRODUCTS INC
*AMERICAN PREMIER INC/PREMIER REFRactories & CHEMICALS INC
*AMETEK INC/MANSFIELD & GREEN DIV
*ANDO CORP
*ANRITSU WILTRON SALES CO
*ANTENNA RESEARCH ASSOCIATES INC
*APPLIED TEST SYSTEMS INC
*ARDROX INC
*ARNCO INC
*ASSOCIATED RESEARCH INC
*ASSOCIATED STEEL CORP
*ATLAS WIRE & CABLE CORP
*AUTO-METRICS INC
*AVDEL CORP
*AVTRON MANUFACTURING INC
*B A S F CORP/POLYMERS PLASTIC FOAMS
*B L H ELECTRONICS INC
*BATSON (LOUIS P) INC
*BETHLEHEM STEEL CORP
*BIACH INDUSTRIES INC
*BLACK & DECKER CORP/POP FASTENERS DIV
*BLONDER-TONGUE LABORATORIES INC
*BRINKMANN INSTRUMENTS INC
*CADY (E J) & CO
*CASTALL INC
*CENTRAL STEEL & WIRE CO
*CHATILLON (JOHN) & SONS INC/FORCE MEASUREMENT DIV
*CHATSWORTH DATA CORP
*COAXIAL DYNAMICS INC
*COLE-PARMER INSTRUMENT CO
*COLONIAL PRINTING INK CORP
*COMMUNICATIONS MANUFACTURING CO
*COMSONICS INC
*COMTEN INDUSTRIES INC
*CRITERION INSTRUMENTS LTD/CANADIAN RESEARCH INSTITUTE
*CRUCIBLE MATERIALS CORP/CRUCIBLE SPECIALTY METALS DIV
*CYCLOPS INDUSTRIES INC/CYTEMP SPECIALTY STEEL
*D E S C O INDUSTRIES INC
*DANIELS MANUFACTURING CORP
*DAYTON-GRANGER INC
*DUDICK INC/CORROSION-PROOF PRODUCTS
*E E V INC

*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*ECOLOTROL INC
*ELECTROMATIC EQUIPMENT CO INC
*EMERSON ELECTRIC CO/ROSEMOUNT ANALYTICAL INC (NEW JERSEY)
*EUCLID CHEMICAL CO
*FAIRCHILD CORP/FAIRCHILD FASTENER GROUP/AEROSPACE FASTENER DIV, TRIDAIR
PRODUCTS
*FALEX CORP
*FARGO CO
*FIVE STAR PRODUCTS INC
*FOX INDUSTRIES INC
*FREUDENBERG-NOK
*FULLER (H B) CO
*G S E INC/MEASUREMENT & CONTROL
*GENERAL ELECTRIC CO/G E SILICONES
*GEORGIA-PACIFIC CORP/GEORGIA-PACIFIC RESINS INC
*GOODRICH (B F) CO/SUPER-TEMP
*H B D INDUSTRIES INC/THERMOID
*HARSCO CORP/PATTERSON-KELLEY CO/ASTRALLOY WEAR TECHNOLOGY DIV
*HASLER-TEL CO INC
*HENKEL CORP/PAPER CHEMICALS
*HEWLETT-PACKARD CO
*HIPOTRONICS INC
*HOLADAY INDUSTRIES INC
*HORTON MANUFACTURING CO INC
*HUMBOLDT MANUFACTURING CO
*I L C INDUSTRIES INC/I L C DOVER INC
*INLAND STEEL INDUSTRIES INC/INLAND STEEL CO
*INLAND STEEL INDUSTRIES INC/RYERSON (JOSEPH T) & SON INC
*INLAND STEEL INDUSTRIES INC/TULL (J M) METALS CO INC
*INSTRON CORP
*ION TRACK INSTRUMENTS INC/I T I INDUSTRIAL
*JORGENSEN STEEL & ALUMINUM
*KEYTEK INSTRUMENT CORP
*KING NUTRONICS CORP
*KOBE STEEL U S A INC
*KOCH INDUSTRIES INC/KOCH CORROSION CONTROL CO
*KOEHLER INSTRUMENT CO INC
*L T V CORP/L T V STEEL CO
*L T V CORP/L T V STEEL TUBULAR PRODUCTS CO
*LA PORTE CONSTRUCTION CHEMICALS NORTH AMERICA INC/TAMMS INDUSTRIES CO
*LEE CO
*LOCTITE CORP
*LORENTZEN & WETTRE U S A INC
*LUKENS INC/LUKENS STEEL CO
*M T S SYSTEMS CORP
*METRIC & MULTISTANDARD COMPONENTS CORP
*METROX INC
*MICRO INSTRUMENT CO
*MODERN CONTROLS INC
*MORRISON MOLDED FIBER GLASS CO/A F C DIV
*N K K AMERICA INC/STEEL DIV

*NATIONAL LIME ASSOCIATION (NLA)
*NATIONAL STONE ASSOCIATION (NSA)
*NEW HAMPSHIRE BALL BEARINGS INC
*NIPPON STEEL U S A INC
*OCCIDENTAL PETROLEUM CORP/OCCIDENTAL CHEMICAL CORP/DUREZ DIV
*OLIN CORP/OLIN BRASS GROUP
*OLSEN (TINIUS) TESTING MACHINE CO INC
*OMEGA ENGINEERING INC
*PACCAR INC/DYNACRAFT CO
*PACIFIC SCIENTIFIC CO/H T L, KIN-TECH DIV
*PARKER (A T) INC/SOLAR ELECTRONICS CO
*PARR INSTRUMENT CO
*PENRIL DATACOMM NETWORKS INC/ELECTRO-METRICS
*PERMAGILE INDUSTRIES INC/PERMAGILE EPOXIES DIV
*POLYMER CORP (THE)
*POTOMAC INSTRUMENTS INC
*QUANEX CORP/QUANEX LA SALLE STEEL
*QUANTACHROME CORP
*R M I TITANIUM CO
*RELIANCE ELECTRIC CO/DODGE DIV
*REXENE CORP/REXENE PRODUCTS CO
*REXROTH CORP/PNEUMATICS DIV
*ROHDE & SCHWARZ INC/MEASUREMENT EQUIPMENT
*SATEC SYSTEMS INC
*SAUEREISEN
*SCHAFFNER E M C INC
*SHEFFIELD PLASTICS INC
*SMISER INDUSTRIES INC
*STANDEX INTERNATIONAL CORP/STANDEX PRECISION ENGINEERING/PERKINS (B F) DIV
*STELCO INC
*SUPERIOR ALLOY STEEL CO
*SYMONS CORP
*SYSTEMATION ENGINEERED PRODUCTS INC
*T A C C INTERNATIONAL CORP
*T S K AMERICA INC
*TELEDYNE INC/TELEDYNE INDUSTRIES INC/TELEDYNE ALLVAC-VASCO MARKETING
*TENSITRON INC
*TESTING MACHINES INC
*THERMOSET PLASTICS INC
*THWING-ALBERT INSTRUMENT CO
*TIMKEN CO/LATROBE STEEL CO
*U S TSUBAKI INC
*UNITED WESTERN TECHNOLOGIES CORP/SHURTRONICS CORP
*UNOCAL CORP/POCO GRAPHITE INC
*VON CORP
*WACKER SILICONES CORP
*WAGNER INSTRUMENTS
*WAVETEK CORP
*WEST COAST RESEARCH CORP
*WESTERN ATLAS INTERNATIONAL INC/CORE LABORATORIES INSTRUMENTS
*WOODHEAD INDUSTRIES INC/DANIEL WOODHEAD CO
*WROUGHT WASHER MANUFACTURING INC

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: tensile strength *****

*ALGOMA STEEL INC
*AMETEK INC/MANSFIELD & GREEN DIV
*APPLIED TEST SYSTEMS INC
*ARNCO INC
*ASSOCIATED STEEL CORP
*B L H ELECTRONICS INC
*BATSON (LOUIS P) INC
*BIACH INDUSTRIES INC
*BRINKMANN INSTRUMENTS INC
*CHATILLON (JOHN) & SONS INC/FORCE MEASUREMENT DIV
*COLE-PARMER INSTRUMENT CO
*COLONIAL PRINTING INK CORP
*COMTEN INDUSTRIES INC
*DANIELS MANUFACTURING CORP
*DAYTON-GRANGER INC
*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*ELECTROMATIC EQUIPMENT CO INC
*FAIRCHILD CORP/FAIRCHILD FASTENER GROUP/AEROSPACE FASTENER DIV, TRIDAIR
PRODUCTS
*FALEX CORP
*G S E INC/MEASUREMENT & CONTROL
*GENERAL ELECTRIC CO/G E SILICONES
*H B D INDUSTRIES INC/THERMOID
*HASLER-TEL CO INC
*HORTON MANUFACTURING CO INC
*INSTRON CORP
*KOBE STEEL U S A INC
*KOEHLER INSTRUMENT CO INC
*LORENTZEN & WETTRE U S A INC
*M T S SYSTEMS CORP
*METROX INC
*NIPPON STEEL U S A INC
*OLSEN (TINIUS) TESTING MACHINE CO INC
*PACCAR INC/DYNACRAFT CO
*PACIFIC SCIENTIFIC CO/H T L, KIN-TECH DIV
*RELIANCE ELECTRIC CO/DODGE DIV
*REXROTH CORP/PNEUMATICS DIV
*SATEC SYSTEMS INC
*SMISER INDUSTRIES INC
*T S K AMERICA INC
*TENSITRON INC
*TESTING MACHINES INC
*THWING-ALBERT INSTRUMENT CO
*WAGNER INSTRUMENTS

*WEST COAST RESEARCH CORP

*WESTERN ATLAS INTERNATIONAL INC/CORE LABORATORIES INSTRUMENTS

*WOODHEAD INDUSTRIES INC/DANIEL WOODHEAD CO

***** VENDOR RESULTS LIST REPORT *****
***** ----- *****
***** Based on the following search criteria: *****
***** Product Terms: viscoelastic *****

*NAMETRE CO

***** VENDOR RESULTS LIST REPORT *****
***** ----- *****
***** Based on the following search criteria: *****
***** Product Terms: viscosity *****

*AMERICAN CYANAMID CO/D AIRCRAFT PRODUCTS INC
*AMETEK INC/MANSFIELD & GREEN DIV
*AMOCO CORP/AMOCO OIL CO/LUBRICANTS BUSINESS UNIT
*B/R INSTRUMENT CORP
*B Y K-GARDNER INC
*BARNANT CO
*BAROID CORP/BAROID DRILLING FLUIDS INC
*BRABENDER (C W) INSTRUMENTS INC
*BRINKMANN INSTRUMENTS INC
*BROOKFIELD ENGINEERING LABORATORIES INC
*C S D TECH INTERNATIONAL INC
*CABOT CORP/CAB-O-SIL DIV
*CANNON INSTRUMENT CO
*CARGILLE (R P) LABORATORIES INC
*COLE-PARMER INSTRUMENT CO
*CONAMETER CORP
*COOKSON AMERICA INC/ALPHA METALS INC
*DU PONT CO/PETROCHEMICALS
*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*EMERSON ELECTRIC CO/ROSEMOUNT INC/ROSEMOUNT ANALYTICAL INC/TEKMAR CO
*ENGELHARD CORP
*EXTECH INSTRUMENTS CORP
*FALEX CORP
*FIKE CORP/FIKE METAL PRODUCTS
*FISHER SCIENTIFIC
*FISONS INSTRUMENTS
*FLUID DATA INC
*FOX INDUSTRIES INC
*FRANGIBLE DISCS INC
*FULLER (H B) CO
*GRAYMILLS CORP

*HENKEL CORP/EMERY GROUP
*HENKEL CORP/PAPER CHEMICALS
*HUBER (J M) CORP/CHEMICALS DIV
*HUMBOLDT MANUFACTURING CO
*HURLETRON INC
*I T T CORP/I T T FLUID TECHNOLOGY CORP/BARTON INSTRUMENTS CO
*KALTEC SCIENTIFIC INC
*KOBOLD INSTRUMENTS INC
*KOehler INSTRUMENT CO INC
*LAB GLASS
*LAB-LINE INSTRUMENTS INC
*LEYBOLD VACUUM PRODUCTS INC
*LOCTITE CORP
*LONZA INC
*MERCK & CO INC/CALGON CORP
*MONA INDUSTRIES INC
*MORTON INTERNATIONAL INC/SPECIALTY CHEMICALS GROUP
*MYERS ENGINEERING INC
*N L INDUSTRIES INC/R H E O X INC
*NAMETRE CO
*NATIONAL STARCH & CHEMICAL CORP/ABLESTIK LABORATORIES
*NORCROSS CORP
*NORDSON CORP/FINISHING EQUIPMENT
*NORDSON CORP/PACKAGING PRODUCTS & ASSEMBLY
*NUSIL TECHNOLOGY
*PAINT CHEMICALS INC
*RHONE-POULENC INC/RHONE-POULENC INDUSTRIAL DIV
*RUETGERS-NEASE CHEMICAL CO INC
*RUSKA INSTRUMENT CORP
*SCIENTIFIC GLASS & INSTRUMENTS INC
*SHELL OIL CO
*SHIMADZU SCIENTIFIC INSTRUMENTS INC
*SPECIALTY ORGANICS INC
*STANCHEM INC
*STEPAN CO
*SUNDSTRAND CORP/MILTON ROY CO/LIQUID METRONICS INC
*UIC INC
*UNION CARBIDE CORP/AMERCHOL CORP
*UNION INK CO INC
*WESTERN ATLAS INTERNATIONAL INC/CORE LABORATORIES INSTRUMENTS
*WITCO CORP/ORGANICS DIV

APPENDIX F.
SELECTED VENDORS FROM CD-ROM MASTER VENDOR CATALOG SEARCH
FOR PHYSICAL PARAMETERS OF TANK WASTE

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***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: abrasive *****

*ABRASIVE INDUSTRIES INC/BAY STATE ABRASIVE PRODUCTS
*ALLISON ABRASIVES INC
*BATES ABRASIVE PRODUCTS INC
*CARBORUNDUM ABRASIVES NORTH AMERICA
*CINCINNATI MILACRON INC/CINCINNATI MILACRON RESIN ABRASIVES
*DAYTON ABRASIVE PRODUCTS CO
*GENERAL ELECTRIC CO/G E SUPERABRASIVES
*LITTON INDUSTRIES INC/LITTON INDUSTRIAL AUTOMATION/DISC GRINDERS & ABRASIVES
*NORTON CO/ABRASIVES MARKETING GROUP
*PRECISION PROFILES INC
*PRES-ON PRODUCTS INC/PRES-ON ABRASIVES DIV
*RADIAC ABRASIVES
*THREE M CO (3M)/THREE M ABRASIVE SYSTEMS DIV
*TREIBACHER (U S A) CORP/GENERAL ABRASIVE TREIBACHER INC
*UNITED ABRASIVES INC
*UNIVERSAL SUPERABRASIVES/METAL & INDUSTRIAL GRINDING DIV

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: corrosive *****

*AALBORG INSTRUMENTS & CONTROLS INC
*ARMSTRONG INTERNATIONAL INC
*CHEM-TEC EQUIPMENT CO INC
*COLTEC INDUSTRIES INC/DELAVAN ELECTRONICS, PROCESS INSTRUMENTATION OPERATION
*DRESSER INDUSTRIES INC/INDUSTRIAL INSTRUMENT OPERATIONS
*I T T CORP/I T T FLUID TECHNOLOGY CORP/I T T CONOFLOW
*MALLINCKRODT INC/MALLINCKRODT SPECIALTY CHEMICALS CO/PERFORMANCE & LABORATORY
CHEMICALS
*NU-TECH PRECISION METALS (U S A) INC
*TELEDYNE INC/TELEDYNE HASTINGS-RAYDIST

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: density *****

*ASHLAND OIL INC/ASHLAND CHEMICAL INC/THERMOPLASTIC SERVICES DIV
*BIO-RAD LABORATORIES
*BRINKMANN INSTRUMENTS INC
*BROOKLYN THERMOMETER CO INC
*E G & G INC/E G & G SPECIAL PROJECTS
*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*RESEARCH INC
*SCIENTIFIC SPECIALTIES SERVICE INC
*SEAMAN NUCLEAR CORP
*SUNDSTRAND CORP/SUNDSTRAND DATA CONTROL/INSTRUMENT SYSTEMS

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: moisture *****

*ADHESIVES RESEARCH INC
*AQUA MEASURE INSTRUMENT CO/MOISTURE REGISTER PRODUCTS DIV
*BRINKMANN INSTRUMENTS INC
*E G & G INC/E G & G MOISTURE & HUMIDITY SYSTEMS
*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*FLUID DATA INC
*MISSOURI RESEARCH LABORATORIES INC/HESCO DIV
*PHILLIPS PETROLEUM CO/PHILLIPS FIBERS CORP
*SEALANT/WATERPROOFING & RESTORATION INSTITUTE (SWRI)
*SEAMAN NUCLEAR CORP

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: pH *****

*BECKMAN INSTRUMENTS INC/BIOANALYTICAL SYSTEMS GROUP
*BRINKMANN INSTRUMENTS INC
*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*MARK IV INDUSTRIES INC/L F E INSTRUMENTS
*MICRO ESSENTIAL LABORATORY INC
*WATER RESOURCES INTERNATIONAL INC
*WORLD PRECISION INSTRUMENTS INC
*YELLOW SPRINGS INSTRUMENT CO INC

VENDOR RESULTS LIST REPORT

***** Based on the following search criteria: *****

***** Product Terms: porosity *****

*MICROMERITICS INSTRUMENT CORP
*MOTT METALLURGICAL CORP
*OSMONICS INC
*RADIAC ABRASIVES
*S S I TECHNOLOGIES INC
*SCHLUMBERGER LTD/SCHLUMBERGER WELL SERVICES
*TELEDYNE INC/TELEDYNE GURLEY
*TESTING MACHINES INC

VENDOR RESULTS LIST REPORT

***** Based on the following search criteria: *****

***** Product Terms: rheology *****

*BRABENDER (C W) INSTRUMENTS INC
*METTLER-TOLEDO INC
*MORTON INTERNATIONAL INC/SPECIALTY CHEMICALS GROUP
*RHEOMETRICS INC

VENDOR RESULTS LIST REPORT

***** Based on the following search criteria: *****

***** Product Terms: shear rate *****

*ALLIEDSIGNAL INC/ALLIEDSIGNAL AEROSPACE CO/GUIDANCE SYSTEMS DIV/BENDIX
CHESHIRE OPNS

VENDOR RESULTS LIST REPORT

***** Based on the following search criteria: *****

***** Product Terms: shear strength *****

*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: shear wave *****

*BISON INSTRUMENTS INC

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: stress *****

*APPLIED TEST SYSTEMS INC

*GENRAD INC/STRUCTURAL TEST PRODUCTS

*OMEGA ENGINEERING INC

*PUBLICKER INDUSTRIES INC/ASSOCIATED TESTING LABORATORIES

*RESEARCH INC

*SOLTEC CORP

*STRESS RELIEF ENGINEERING CO

*TELEDYNE INC/TELEDYNE BROWN ENGINEERING/TELEDYNE ENGINEERING SERVICES DIV

*VISHAY INTERTECHNOLOGY INC/MEASUREMENTS GROUP INC

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: strength *****

*CHATILLON (JOHN) & SONS INC/FORCE MEASUREMENT DIV

*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV

*G S E INC/MEASUREMENT & CONTROL

*MICRO INSTRUMENT CO

*OCCIDENTAL PETROLEUM CORP/OCCIDENTAL CHEMICAL CORP/DUREZ DIV

*OLSEN (TINIUS) TESTING MACHINE CO INC

*ROHDE & SCHWARZ INC/MEASUREMENT EQUIPMENT

*TESTING MACHINES INC

*WEST COAST RESEARCH CORP

*WESTERN ATLAS INTERNATIONAL INC/CORE LABORATORIES INSTRUMENTS

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: viscoelastic *****

*NAMETRE CO

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: viscosity *****

*BAROID CORP/BAROID DRILLING FLUIDS INC
*BRABENDER (C W) INSTRUMENTS INC
*BRINKMANN INSTRUMENTS INC
*BROOKFIELD ENGINEERING LABORATORIES INC
*CARGILLE (R P) LABORATORIES INC
*HUMBOLDT MANUFACTURING CO
*I T T CORP/I T T FLUID TECHNOLOGY CORP/BARTON INSTRUMENTS CO
*MORTON INTERNATIONAL INC/SPECIALTY CHEMICALS GROUP
*RUSKA INSTRUMENT CORP
*SCIENTIFIC GLASS & INSTRUMENTS INC
*SHELL OIL CO
*SHIMADZU SCIENTIFIC INSTRUMENTS INC
*SUNDSTRAND CORP/MILTON ROY CO/LIQUID METRONICS INC
*WESTERN ATLAS INTERNATIONAL INC/CORE LABORATORIES INSTRUMENTS

APPENDIX G.
SEARCH RESULTS FOR DEPTH PENETRATION DEVICE
ON CD-ROM MASTER VENDOR CATALOG

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Vendor Master Directory. May-Jun 1994 Issue.
Thu Nov 04 01:03:20 1993

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: cement drill *****

*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*HILTI INC
*HUMBOLDT MANUFACTURING CO

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: concrete drill *****

*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*HILTI INC
*HUMBOLDT MANUFACTURING CO
*JAMES INSTRUMENTS INC
*NORTON CO/NORTON CONSTRUCTION PRODUCTS
*REIMANN & GEORGER INC
*S-B POWER TOOL CO/BOSCH POWER TOOL DIV
*SLOPE INDICATOR CO
*SOKKIA CORP

**** VENDOR RESULTS LIST REPORT ****

**** Based on the following search criteria: ****
**** Product Terms: oil drill ****

*A S L INC
*AMERICAN DRILL BUSHING CO
*AMERICAN LUBRICANTS CO
*ATLAS COPCO CONSTRUCTION & MINING NORTH AMERICA
*BAKER HUGHES INC/BAKER HUGHES DRILLING EQUIPMENT/EASTMAN CHRISTENSEN CO
*CENTRAL STEEL & WIRE CO
*CITGO PETROLEUM CORP/LUBRICANTS & SPECIALTY PRODUCTS DIV
*DERRICK MANUFACTURING CORP/DERRICK EQUIPMENT CO
*DU PONT CO/CONOCO INC
*JERGENS INC
*KERR-MC GEE CORP/KERR-MC GEE REFINING CORP/CATO OIL & GREASE CO
*KURTZ (JAMES H) STEEL CO
*LAPHAM-HICKEY STEEL CORP
*MOBIL OIL CORP
*PRECISION-MARSHALL STEEL CO
*RUSKA INSTRUMENT CORP
*TEXAS REFINERY CORP

**** VENDOR RESULTS LIST REPORT ****

**** Based on the following search criteria: ****
**** Product Terms: soil drill ****

*BEN MEADOWS CO
*CLEMENTS ASSOCIATES INC
*GENERAL MOTORS CORP/A-C DELCO DIV
*SLOPE INDICATOR CO

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Vendor Name: mining *****

*ATLAS COPCO CONSTRUCTION & MINING NORTH AMERICA
*BRUSH WELLMAN INC/BERYLLOMINING DIV
*JEFFREY MINING MACHINERY DIV, DRESSER INDUSTRIES INC - Now - DRESSER
INDUSTRIES INC/JEFFREY DIV
*BAKER HUGHES INC/ BAKER HUGHES MINING EQUIPMENT/ E I M C O MINING EQPT, E I M
C O JARVIS CLARK - Now - EIMCO JARVIS CLARK
*ENVIROTECH CORP, EIMCO MINING MACHINERY GROUP - Now - EIMCO JARVIS CLARK
*EAGLE-PICHER INDUSTRIES INC/ELMAC CORP, MINING MACHINE PARTS - Now -
FAIRCHILD
INTERNATIONAL
*ELMAC CORP, MINING MACHINE PARTS DIV - Now - FAIRCHILD INTERNATIONAL
*FOSROC INC/CELTITE MINING & TUNNELING DIV
*WESTINGHOUSE AIR BRAKE CO, MINING EQUIPMENT DIV - Now - GOODMAN EQUIPMENT
CORP
*HARNISCHFEGER INDUSTRIES INC/HARNISCHFEGER CORP/MINING EQUIPMENT DIV
*MINEREC MINING CHEMICALS
*CALLAHAN MINING CORP/ PATHWAY BELLows INC - Now - PATHWAY BELLows INC
*COOPER INDUSTRIES INC/ GARDNER-DENVER MINING & CONSTRUCTION - Now - REEDRILL
INC
*GARDNER-DENVER MINING & CONSTRUCTION - Now - REEDRILL INC
*SHATTUCK DENN MINING CORP, RICHMOND SCREW ANCHOR DIV - Now - RICHMOND SCREW
ANCHOR CO
*HUGHES MINING TOOLS - Now - SANDVIK ROCK TOOLS INC/MINERAL TOOLS DIV
*MINING TOOLS INC - Now - SANDVIK ROCK TOOLS INC/MINERAL TOOLS DIV
*S I I MINING TOOLS - Now - SANDVIK ROCK TOOLS INC/MINERAL TOOLS DIV
*SII MINING TOOLS - Now - SANDVIK ROCK TOOLS INC/MINERAL TOOLS DIV
*SMITH INTERNATIONAL INC/ MINING TOOLS DIV - Now - SANDVIK ROCK TOOLS
INC/MINERAL TOOLS DIV
*BAKER HUGHES INC/BAKER HUGHES MINING EQUIPMENT/ E I M C O MINING EQPT, E I M
C
C O COAL MACHINERY - Now - TAMPELLA POWER CORP/TAMROCK CO, EIMCO COAL
MACHINERY INC
*E I M C O COAL MACHINERY INC/ E I M C O MINING EQUIPMENT/ E I M C O COAL
MACHINERY DIV - Now - TAMPELLA POWER CORP/TAMROCK CO, EIMCO COAL MACHINERY
INC
*EIMCO COAL MACHINERY INC/E I M C O MINING EQUIPMENT/E I M C O COAL MACHINERY
DIV - Now - TAMPELLA POWER CORP/TAMROCK CO, EIMCO COAL MACHINERY INC
*F M C CORP/ MINING EQUIPMENT DIV - Now - TAMPELLA POWER CORP/TAMROCK CO,
EIMCO
COAL MACHINERY INC
*FMC CORP/MINING EQUIPMENT DIV - Now - TAMPELLA POWER CORP/TAMROCK CO, EIMCO
COAL MACHINERY INC

*W V A MINING EQUIPMENT CO - Now - TAMPELLA POWER CORP/TAMROCK CO, EIMCO COAL MACHINERY INC

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/AEROSPACE MATERIALS DEPARTMENT

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/CARBONLESS PRODUCTS DEPT

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/CERAMIC MATERIALS DEPT

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/COMMERCIAL GRAPHICS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/CONSTRUCTION MARKETS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/ELECTRICAL PRODUCTS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/ELECTRICAL SPECIALTIES DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/ELECTRONIC PRODUCTS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/ELECTRONIC PRODUCTS DIV/ELECTRONIC SPECIALTY MARKETS

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/ELECTRONIC PRODUCTS DIV/TEXT TOOL PRODUCTS DEPT

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/HARDGOODS AND PACKAGING

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/HEALTH INFORMATION SYSTEMS

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/INDUSTRIAL & CONSUMER SECTOR

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/INDUSTRIAL MINERAL PRODUCTS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/INDUSTRIAL TAPE & SPECIALTIES DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/MASKING & PACKAGING SYSTEMS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/OCCUPATIONAL HEALTH & ENVIRONMENTAL SAFETY DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/OFFICE DOCUMENT SYSTEMS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/OPTICAL SYSTEMS

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/PHOTOCOLOR SYSTEMS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M), PRINTING & PUBLISHING SYSTEMS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/PRODESIGN INC

*3M THREE M CO/MINNESOTA MINING & MANUFACTURING SAFETY & SECURITY SYSTEMS DIV - Now - THREE M CO (3M)/SAFETY & SECURITY SYSTEMS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/SAFETY & SECURITY SYSTEMS DIV

*THREE M CO (3M)/ MINNESOTA MINING & MANUFACTURING SAFETY & SECURITY SYSTEMS DIV - Now - THREE M CO (3M)/SAFETY & SECURITY SYSTEMS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/SARNS 3M HEALTH

CARE

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/SOUND PRODUCTS

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/SPECIALTY
CHEMICALS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/TEXTOL TEST &
INTERCONNECT PRODUCTS DEPT

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/THREE M ABRASIVE
SYSTEMS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/THREE M HEALTH
CARE

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/THREE M HOME &
COMMERCIAL CARE DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/THREE M
PRERECORDED OPTICAL MEDIA

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/THREE M TELECOM
SYSTEMS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/TRAFFIC CONTROL
MATERIALS DIV

*MINNESOTA MINING & MANUFACTURING CO - Now - THREE M CO (3M)/VISUAL SYSTEMS
DIV

APPENDIX H.
SELECTED VENDORS FROM CD-ROM MASTER VENDOR CATALOG SEARCH
FOR DEPTH PENETRATION DEVICES

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: cement drill *****

*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*HILTI INC
*HUMBOLDT MANUFACTURING CO

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: concrete drill *****

*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*HILTI INC
*HUMBOLDT MANUFACTURING CO
*JAMES INSTRUMENTS INC
*SLOPE INDICATOR CO

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: oil drill *****

*ATLAS COPCO CONSTRUCTION & MINING NORTH AMERICA
*BAKER HUGHES INC/BAKER HUGHES DRILLING EQUIPMENT/EASTMAN CHRISTENSEN CO

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Product Terms: soil drill *****

*CLEMENTS ASSOCIATES INC
*SLOPE INDICATOR CO

***** VENDOR RESULTS LIST REPORT *****

***** Based on the following search criteria: *****
***** Vendor Name: mining *****

*JEFFREY MINING MACHINERY DIV, DRESSER INDUSTRIES INC - Now - DRESSER
INDUSTRIES INC/JEFFREY DIV
*BAKER HUGHES INC/ BAKER HUGHES MINING EQUIPMENT/ E I M C O MINING EQPT, E I M
C O JARVIS CLARK - Now - EIMCO JARVIS CLARK
*FOSROC INC/CELTITE MINING & TUNNELING DIV
*HUGHES MINING TOOLS - Now - SANDVIK ROCK TOOLS INC/MINERAL TOOLS DIV

APPENDIX I.
ANNOUNCEMENTS IN THE COMMERCE BUSINESS DAILY (CBD) FOR
TANK WASTE PHYSICAL PARAMETER AND DEPTH PROFILING SENSORS

Potential Sources Sought

SENSORS FOR ROBOTIC ARM POC Keith Hoeft, 509/376-3953, Senior Procurement Specialist, Richland, WA. Organizations having capabilities and experience to furnish various sensors that can be connected at the end of a robot arm or be independent of the robot are invited to submit information demonstrating their product/concept(s), etc. for the sensor(s) described in this synopsis. This is not a Request for Proposal, but a request for information. The sensor is inserted from the top of one million gallon capacity waste tanks, to perform an in situ test of physical characteristics of the radioactive waste (up to 1000 R/hr). The tank waste form ranges from liquid to solid. The sensors must be able to measure one or more of the physical properties of waste. Tank waste physical properties of interest are: shear stress and shear strength, shear rate, shear wave velocity, yield stress, viscosity, viscoelastic, abrasiveness, corrosiveness, permeability, density, temperature, pH, compressive strength, porosity, rheology. The sensor must conform to the requirements and constraints of any apparatus connected at the end of the robot arm or applications device. For instance, as a minimum requirement for the robot arm sensor, the weight of the device must be less than 50 pounds and it must be smaller than a cylinder envelope with outer diameter of 10.5 inches and length of 30 inches. For maintenance, the sensor must be able to function continuously for at least 10 hours without failure. A single part replacement is acceptable for every 1000 hours of operation. Internal tank environment is +70 to 150 F, humidity of low to 100%, T-0J, abrasive dust, ± 10 inches of pressure, concentrated nitric acid fumes to pH of 14 and radiation of up to 1000 rad/hr. External tank environment is -20 to 115 F, 4% to 100% humidity, wind speeds of 0 to 129 miles/hr, rainfall up to 2 inches/hr, snowfall up to 2 feet and severe dust storms. Must be able to withstand a decontamination spray of 250 lb/in². Decontamination solutions may include water, CO₂, 3 to 6 molar nitric acid, 3 to 6 molar oxalic acid, Turco cleaning compound 4502 at 250 F. In responding to this advertisement, Seller shall describe any experience or capability to furnish sensors as described above, and is requested to furnish Company product brochures, design concepts, product categories, etc. Westinghouse Hanford Company will not award an offer on the basis of the synopsis nor compensate any respondent for responding to this announcement.

SURFACE PENETRATION DEVICE POC Keith Hoeft, 509/376-3953, Senior Procurement Specialist, Richland, WA. Organizations having capabilities and experience to furnish a surface penetration device that can penetrate waste surface to allow deployment of sensor at various depths are invited to submit information demonstrating their product/concepts, etc. for the equipment described in this synopsis. This is not a Request for Proposal, but a request for information. The penetration device can be connected at the end of a robot arm or a suitable deployment mechanism, which will be inserted from the

top of one million gallon capacity radioactive waste (up to 1000 R/hr) storage tanks. The device should be able to penetrate waste surface with numerous hole sizes; at minimum, the drilled hole must be at least 1 inch in diameter and 30 inches deep. The tank waste can be in any of the three forms: soft waste (sludge), hard sludge (peanut butter consistency) and salt cake (solid) which can be as hard as dried concrete but also water soluble. The penetration device must conform to the requirements and constraints of any apparatus connected at the end of the robot arm or applications device. For instance, as a minimum requirement for the robot arm apparatus, the weight of the device must be less than 50 pounds and it must be smaller than a cylinder envelope with outer diameter of 10.5 inches and length of 30 inches. For maintenance, the penetration device must be able to function continuously for at least 10 hours without failure. In responding to this advertisement, Seller shall describe any experience or capability to furnish a surface penetration device as described above, and is requested to furnish Company product brochures, design concepts, product categories, etc. Westinghouse Hanford Company will not award an offer on the basis of this synopsis nor compensate any respondent for responding to this announcement.

APPENDIX J.
RESPONDED VENDORS LISTING FROM THE ANNOUNCEMENTS IN THE COMMERCE BUSINESS
DAILY AND THOSE SELECTED IN APPENDIX F AND H

Accutech
6032 197th Avenue East
Sumner, WA 98390-8876

Bio-Rad Laboratories, Inc.
2000 Alfred Nobel Drive
Hercules, CA 94547

C. W. Brabender Instruments, Inc.
50E. Wesley St.
P.O. Box 2127
So. Hackensack, NJ 07606

Foster-Miller, Inc.
Technology Developers
350 Second Ave.
Waltham, MA 02154-1196

ITT Fluid Technology Corporation
900 South Turnbull Canyon Road
P.O. Box 1882
City of Industry, CA 91749-1882

Nametre Company
101 Forrest Street
Metuchen, NJ 08840

Omega Engineering, Inc.
One Omega Drive
P.O. Box 4047
Stanford, CT 06907-0047

Philip Timmons, Inc.
P.O. Box 210066
Dallas, TX 75211-0066

Quest Integrated, Inc.
21414 68th Ave. South
Kent, WA 98032

Robotech Industries LTD.
4040 Brandon Street S.E.
Calgary, Alberta, CANADA T2G 4A8

Shimadzu Scientific Instruments, Inc.
7102 Riverwood Drive
Columbia, Maryland 21046

Visidyne, Inc.
10 Corporate Place
South Bedford Street
Burlington, Massachusetts 01803

West Coast Research Corp.
1527 26th Street
Santa Monica, CA 90404

APPENDIX K.

SEARCH RESULTS FROM WHC ENGINEERING RELEASE SYSTEM-DATABASE (ERS-DB)
FOR TANK WASTE PHYSICAL PARAMETERS

Keyword: VISCOSITY

- * SD-WM-TI-012 PUREX DECLADDING WASTE-VISCOSITY & FLOWRATE VERSUS PRESSURE DROP CALCULATIONS
- * SD-WM-TI-222 VISCOSITY STUDY - PREDICTION OF ELECTROLYTIC SOLUTIONS & SLURRIES
- * SD-WM-TI-247 VALIDATION OF VISCOSITY CORRELATION FOR SLURRIES
- * SD-WM-WP-242 TANK SY-101 IN SITU VISCOMETER INSTRUMENT ENGINEERING WORK PLAN
- * SD-WM-CSRS-017 SOFTWARE REQUIREMENTS SPECIFICATION FOR TANK 101-SY VISCOMETER
- * SD-WM-ATP-079 SOFTWARE ACCEPTANCE TEST PROCEDURE FOR TANK 101-SY VISCOMETER
- * SD-WM-DA-151 VISCOMETER ELECTRICAL CODES AND COMPLIANCE

Keyword: CORROSION

- * HWS-10249 PROC SPEC FOR ULTRASONIC CORROSION INSPCTN SYSTM
- * HWS-05643 SPEC FOR VERTICAL TURBINE PUMPS FOR NON-CORROSIVE SVC
- * HWS-08846 SPEC FOR SUBMERSIBLE TYPE PUMPS FOR NON-CORROSIVE SERVICE
- * HS-BP-0046 SUBMERSIBLE VERTICAL TURBINE PUMP FOR NON-CORROSIVE SERVICE
- * SD-CP-ES-058 TECHNOLOGY SURVEY OF SMALL CORROSION RESISTANT PUMPS FOR IN-HOOD SERVICE
- * SD-CP-TC-008 PFP CORROSION EVALUATION PLAN
- * SD-WM-PAP-025 HANFORD WASTE TANK CORROSION STUDY TECHNOLOGY PROGRAM PLAN
- * SD-WM-TI-150 TECHNICAL BASIS FOR WASTE TANK CORROSION SPECIFICATIONS
- * SD-WM-TI-161 REFERENCES FOR TECHNICAL BASIS FOR WASTE TANK CORROSION SPECIFICATIONS
- * SD-WM-TI-166 HIGH TEMPERATURE CORROSION TESTS ON DOUBLE-SHELL SLURRY & FUTURE PUREX MIXTURES-TWELVE MONTH EVALUATION

- * SD-WM-ER-034 CORROSION STUDY ON THE STANDARD BURIAL BOX
- * SD-WM-ER-035 CORROSION STUDY ON GENERAL BURIAL BOX
- * SD-WM-TC-008 CORROSION STUDY OF SHIELDING LEAD IN HANFORD SOIL (CONTINUED IN FY-89)
- * SD-WM-ER-041 CORROSION STUDY OF SOLID LEAD IN HANFORD SOILS FY-88
- * SD-WM-ES-135 CORROSION STUDY OF THE 244-AR VAULT TANKS 001-002-003 AND 004
- * SD-CP-DA-042 DESIGN ANALYSIS FOR REPAIR AND CORROSION PROOFING OF C-CELL
- * SD-WM-TI-467 PREDICTION EQUATIONS FOR CORROSION RATES OF A-537 AND A-516 STEELS IN DOUBLE SHELL SLURRY, FUTURE PUREX AND HANFORD FACILITIES WASTE
- * SD-WM-EV-054 DOUBLE-SHELL WASTE TANK IN-TANK CORROSION MONITORING PROGRAM
- * SD-WM-TP-111 TEST PLAN FOR CORROSION EVALUATION OF TRUEX PLANT MATERIALS
- * SD-WM-ANAL-009 244-BX DOUBLE-CONTAINED RECEIVER TANK (DCRT) CORROSION STUDY
- * SD-CP-WP-017 PFP WASTE TANK SYSTEM DESIGN EVALUATION VISUAL INSPECTION AND CORROSION ASSESSMENT WORK PLAN
- * SD-CP-TP-072 FILTER MEDIA CORROSION TEST PLAN
- * SD-HWV-TI-030 CORROSION EVALUATION FOR ACCEPTANCE OF HANFORD WASTE VITRIFICATION PLANT ALLOYS
- * SD-W236A-TP-001 MULTI-FUNCTION WASTE TANK FACILITY CORROSION TEST PLAN
- * SD-CP-WP-016 CORROSION ASSESSMENT PLAN FOR THE PUREX DANGEROUS WASTE TANKS
- * SD-CP-WP-018 CORROSION ASSESSMENT REPORT FOR THE PUREX DANGEROUS WASTE TANK SYSTEMS
- * SD-NR-TP-020 100-K BASIN CORROSION STUDY
- * SD-WM-ER-209 HANFORD SITE SINGLE-SHELL TANK LEVEL HISTORIES FOR CORROSION ANALYSIS
- * SD-W236A-TRP-001 MULTI-FUNCTION WASTE TANK FACILITY CORROSION TEST REPORT, PHASE 1

Keyword: DENSITY

- * SD-WM-TI-268 PRACTICAL CONSIDERATIONS OF HIGH-DENSITY COMPACTION SYSTEMS FOR USE IN THE WASTE RECEIVING & PROCESSING (WRAP) FACILITY
- * SD-HWV-TI-020 SOIL DENSITY AND MASS ATTENUATION COEFFICIENTS FOR USE IN SHELDING CALCULATIONS AT THE HANFORD WASTE VITRIFICATION PLANT
- * SD-WM-OTP-133 VELOCITY DENSITY TEMPERATURE THREE -VDTT- OPERATIONAL TEST PROCEDURE
- * SD-WM-SDD-005 VELOCITY DENSITY TEMPERATURE THREE VDTT SYSTEM DESIGN DESCRIPTION
- * SD-WM-OTR-133 VELOCITY DENSITY TEMPERATURE THREE VDTT OPERATIONAL TEST REPORT
- * SD-WM-DA-113 STRUCTURAL ANALYSIS OF TANK 241-SY-101 VELOCITY-DENSITY-TEMPERATURE TREE
- * SD-WM-TI-534 VELOCITY DENSITY TEMPERATURE THREE VDTT INSTRUMENT TECHNICAL INFORMATION
- * SD-WM-WP-201 WORK PLAN TO VACUUM DRY AND CALIBRATE SY-101 VELOCITY DENSITY TEMPERATURE TREES VDTTS

Keyword: COMPRESSIVE STRENGTH

- * SD-WM-TP-171 MEASUREMENT OF PULSE VELOCITY/COMPRESSIVE STRENGTH RELATIONSHIP OF GROUTED WASTE

Keyword: TEMPERATURE

- * SD-CP-PTP-030 PROCESS TEST PLAN, TEMPERATURE DATA PLUTONIUM OXIDATION
- * SD-CP-PTR-009 PROCESS TEST REPORT - TEMPERATURE DATA PLUTONIUM OXIDATION
- * SD-CP-TI-099 REMOTE MECHANICAL C-LINE CALCIATOR TEMPERATURE CONTROL TESTS
- * SD-RE-OTP-081 OPERABILITY TEST PROCEDURE FOR SOLVENT TEMPERATURE CONTROL UPGRADE (AR# P20017)
- * SD-RE-OTR-081 OPERABILITY TEST REPORT FOR SOLVENT TEMPERATURE CONTROL UPGRADE (AR# P20017)
- * SD-RE-TI-103 BASES FOR PUREX SOLVENT TANK TEMPERATURE LIMITS
- * SD-RE-TI-146 EXPECTED DRILL BIT TEMPERATURE

DURING SAMPLE TAKING IN SINGLE SHELL TANKS
BASES FOR WESF STRONTIUM FURNACE FIRING TEMPERATURE
OPERABILITY TEST PROCEDURE FOR TEMPERATURE SCANNING EQUIPMENT FOR 241-AY & 241-AZ TANK FARMS
OPERABILITY TEST REPORT FOR TEMPERATURE SCANNING EQUIPMENT IN 241-AY & 241-AZ TANK FARM
TEMPERATURE INCREASE CAUSED BY SOLIDS SETTLING INTO CORNERS OF BOILING WASTE TANKS
HIGH TEMPERATURE CORROSION TESTS ON DOUBLE-SHELL SLURRY & FUTURE PUREX MIXTURES-TWELVE MONTH EVALUATION
MAXIMUM TEMPERATURE OF CESIUM CANISTER SIPPING SYSTEM AT IRRADIATION FACILITY
PROCESS WASTE TRANSFER LINES FROM TANK 241-AZ-101 TO 244-AR
VAULT TEMPERATURE ANALYSIS
SCOPING ANALYSIS FOR REDUCING GROUT DISPOSAL SYSTEM TEMPERATURES
MT 5 TEMPERATURE CONTROL SYSTEM PHASE I
MT-5 TEMPERATURE CONTROL SYSTEM - PHASE I TEST REPORT
SLUDGE IN AGING WASTE TANK AND MAXIMUM OBSERVED TEMPERATURE
DOUBLE SHELL TANK OPERATING TEMPERATURE
HC-60, TEMPERATURE CONTROL SYSTEM
EVALUATION OF AMBIENT TEMPERATURE EFFECTS ON TANK 101-SY GAS MIXING -TASK RECORD-
TEST PROCEDURE FOR DOCUMENTING HIGHEST TEMPERATURE PRODUCED BY 101-SY DRILLING & CUTTING OPERATIONS
101-SY DRILLING AND CUTTING OPERATION TEMPERATURES
WORKPLAN, TEMPORARY GAS MONITORING SYSTEM, TEMPERATURE AND RELATIVE HUMIDITY INSTRUMENTATION, TANK SY-101
FUNCTIONAL REQUIREMENTS FOR FERROCYANIDE TANK TEMPERATURE MONITORING

* SD-WM-WP-075 NITORING
ENGINEERING WORK PLAN FOR FERR
OCYANIDE TANK TEMPERATURE MONI
TORYING

* SD-WM-TI-483 TEMPERATURE MEASUREMENT ERROR
ANALYSIS

* SD-CP-ATR-027 HC-60 TEMPERATURE CONTROL SYST
EM

* SD-WM-TI-486 PB1 PUMP PRODUCED TEMPERATURE
RISE IN 242A EVAPORATOR CRYSTA
LLIZER

* SD-WM-ES-183 ENGINEERING STUDY OF TEMPERATU
RE SENSORS FOR USE IN WASTE TA
NK SURVEILLANCE

* SD-WM-ATP-020 CONTINUOUS TEMPERATURE MONITOR
ING PHASE 1 ACCEPTANCE TEST PR
OCEDURE

* SD-W175-ATR-001 ACCEPTANCE TEST REPORT #001 FO
R LOW TEMPERATURE SWITCHES

* SD-WM-WP-116 ENGINEERING WORK PLAN FOR FERR
OCYANIDE TANK TEMPERATURE MONI
TORYING PHASE 2 AND PHASE 3

* SD-WM-ATR-020 CONTINUOUS TEMPERATURE MONITOR
ING PHASE 1 ACCEPTANCE TEST RE
PORT

* SD-WM-WP-130 WASTE TANK CORE DRILL TEMPERAT
URE ALARM

* SD-WM-TP-122 SURVEILLANCE ANALYSIS COMPUTER
SYSTEM (SACS) TEMPERATURE DAT
ABASE TEST PLAN

* SD-WM-CSWD-031 SURVEILLANCE ANALYSIS COMPUTER
SYSTEM (SACS) TEMPERATURE DAT
A SOFTWARE REQUIREMENTS SPECIF
ICATION (SRS)

* SD-WM-RPT-038 ROTARY MODE CORE SAMPLING TEMP
ERATURE MONITORING

* SD-WM-SDP-003 SURVEILLANCE ANALYSIS COMPUTER
SYSTEM SACS TEMPERATURE DATAB
ASE SOFTWARE PROJECT MANAGEMEN
T PLAN SPMP

* SD-WM-ER-156 SURFACE TEMPERATURE DATA RECOR
DS AND INTERPRETATION OF INFRA
-RED SCANNING OF TANK S-110

* SD-WM-ATR-023 TANK MONITOR AND CONTROL SYSTE
M TEMPERATURE ACCEPTANCE TEST
REPORT

* SD-WM-TRP-084 SURVEILLANCE ANALYSIS COMPUTER
SYSTEM SACS TEST CASE TC018 M
AXIMUM TEMPERATURE REPORT REQU
EST FORM AND OUTPUT

* SD-WM-TRP-085 SURVEILLANCE ANALYSIS COMPUTER
SYSTEM SACS TEST CASE TC019 T

- * SD-WM-TRP-082 TEMPERATURE PROFILE GRAPH SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST CASE TC015 SINGLE SHELL TANK MAXIMUM TEMPERATURE GRAPH
- * SD-WM-DP-022 101-SY MIXING PUMP TEMPERATURE AND PRESSURE LOOP CALIBRATION
- * SD-WM-OTP-133 VELOCITY DENSITY TEMPERATURE TREE -VDTT- OPERATIONAL TEST PROCEDURE
- * SD-WM-SDD-005 VELOCITY DENSITY TEMPERATURE TREE VDTT SYSTEM DESIGN DESCRIPTION
- * SD-WM-OTR-133 VELOCITY DENSITY TEMPERATURE TREE VDTT OPERATIONAL TEST REPORT
- * SD-WM-DA-113 STRUCTURAL ANALYSIS OF TANK 241-SY-101 VELOCITY-DENSITY-TEMPERATURE TREE
- * SD-WM-TRP-087 SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST CASE TC021 TEMPERATURE PROFILE REPORT REQUEST FORM AND OUTPUT
- * SD-WM-TI-534 VELOCITY DENSITY TEMPERATURE TREE VDTT INSTRUMENT TECHNICAL INFORMATION
- * SD-WM-TRP-104 SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST CASE TC036 ZOOM FORMS FOR THE BASE TEMPERATURE SYSTEM
- * SD-WM-TRP-088 SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST CASE TC022 FORM TEMPERATURE DATA INPUT FORM
- * SD-WM-WP-201 WORK PLAN TO VACUUM DRY AND CALIBRATE SY-101 VELOCITY DENSITY TEMPERATURE TREES VDTTS
- * SD-WM-TRP-116 SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST CASE TC039, TMACS TEMPERATURE DATA INTERFACE
- * SD-WM-CSUD-005 SACS TEMPERATURE USER MANUAL
- * SD-WM-TI-557 PRELIMINARY FLOWSHEET FOR LOW TEMPERATURE HYDROTHERMAL DESTRUCTION OF ORGANICS IN HANFORD TANK WASTES
- * SD-WM-WP-220 WORK PLAN FOR TEMPORARY INSTALLATION OF TEMPERATURE DATA ACQUISITION SYSTEM FOR USE DURING TANK 241-AZ-101
- * SD-NR-EII-006 KE BASIN TEMPERATURE MONITOR EQUIPMENT INSTALLATION INSTRUCT

* SD-NR-EII-007	ION KW BASIN TEMPERATURE MONITOR E QUIPMENT INSTALLATION INSTRUCT ION
* SD-ER3641-OTP-001	OPERABILITY TEST PROCEDURE FOR 244U DCRT GENERAL EQUIPMENT L EAK DETECTOR, HEAT TRACE, TEMP ERATURE, BFP
* SD-ER3641-OTP-004	OPERABILITY TEST PROCEDURE FOR 244U DCRT GENERAL EQUIPMENT, LEAK DETECTOR, HEAT TRACE, TEM PERATURE, BFP
* SD-WM-TC-051	SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST REPORT TC053 , PC-SACS TEMPERATURE DATA ENTR RY
* SD-WM-TRP-187	SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST REPORT TC053 PC-SACS TEMPERATURE DATA ENTR Y FORM

Keyword: SHEAR

* ES-BP-0008	DESING AND MANUFACTURE OF A BU NDIE SHEAR SYSTEM
* SD-CP-ES-017	A SHEAR/LEACH FACILITY FOR N-F UEL'S AT PUREX
* SD-CP-ES-019	SHEAR/LEACH PROCESSING OF N-RE ACTOR FUELS, CLADDING HULL WAS TE MANAGEMENT
* SD-CP-ES-020	ECONOMIC EVALUATION OF A SHEAR /LEACH HEADEND FOR PROCESSING ZIRCALOY CLAD NPP FUEL
* SD-CP-ES-027	SHEAR/LEACH PROCESS FOR N-REAC TOR FUELS PROCESSING AT THE PU REX PLANT
* SD-RE-DTP-009	FFTF FUEL BUNDLE SHEAR TEST PL AN
* SD-WM TP-040	SHEAR VANE TEST PLAN USING SIM ULATED WASTE
* SD-WM-PTD-031	PROTOTYPE PLANNING DOCUMENT DO UBLE-SHELL TANK CHARACTERIZATI ON SYSTEM (SHEAR VANE)
* SD-WM-TP-040	SHEAR VANE TEST PLAN USING SIM ULATED WASTE
* SD-WM-TC-004	SHEAR VANE COLD TEST PROCEDURE
* SD-CP-DA-011	DESIGN ANALYSIS FOR SHEAR PIN ON ENGAGEMENT ARM OF PUREX CAS K CAR PULLER
* SD-WM-TRP-032	SHEAR VANE "COLD" TEST REPORT
* SD-CP-TP-064	SHEAR-LEACH SHEAR DEVELOPMENT TEST PLAN

- * SD-CP-DA-073 DESIGN ANALYSIS FOR SHEAR LEACH DEVELOPMENT TESTING
- * SD-EN-TP-039 INTEGRATED TEST PLAN FOR CROSS WELL COMPRESSIONAL AND SHEAR WAVE SEISMIC TOMOGRAPHY FOR SITE CHARACTERIZATION AT THE VOC ARID SITE

Keyword: PHYSICAL PROPERTY

- * SD-WM-TI-513 101-SY WINDOW C CORE SAMPLES EVALUATION OF THE CHEMICAL AND PHYSICAL PROPERTIES
- * SD-WM-SD-017 WHC & PNL ANALYTICAL LABORATORY PROCEDURES TO CHARACTERIZE PHYSICAL PROPERTIES OF WASTE

Keyword: pH

- * SD-CP-LB-025 DETERMINATION OF PH VALUES
- * SD-CP-PPT-007 DEMONSTRATION OF AMMONIA FEED PH CONTROL ON A LARGER SCALE
- * SD-CP-TEEM-018 PFP LEEDS AND NORTHRUP LIQUID EFFLUENT PH METER
- * SD-NR-EII-003 EQUIPMENT INSTALLATION INSTRUCTION FOR PH UPGRADE AT 105KE
- * SD-NR-EII-004 EQUIPMENT INSTALLATION INSTRUCTION FOR PH MONITORING SYSTEM

APPENDIX L.
SEARCH RESULTS FROM WHC TANK FARM INFO DATABASE (TFI)
FOR TANK WASTE CHARACTERIZATION

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WTS #	Document Number	Author Name	Addressee Name	Doc Date	Rev	Document Title
	D193013234 9204755			070192		RETURN WITHOUT APPROVAL OF CHANGE REQUESTS TWR-N-0 31-92 OPERATING AND MAINTENANCE TWR-N-032-92 WASTE TANK SAFETY TWR-N-033-92 TANK FARM UPGRADES AND T
	D193013255 9205490B			081292		STRATEGIC PLAN FOR THE CHARACTERIZATION OF THE CONTENTS OF HANFORD'S HIGH-LEVEL WASTE HLW TANKS
	D193013349 28100-92-020			032591		NUMBER OF SAMPLES NEEDED TO CHARACTERIZE THE CONTENTS OF TANK 241-SY-101
	D193014729 65124-80-077	MITCHELL	FLESHER	020180		PHYSICAL/CHEMICAL CHARACTERISTICS OF TY105, TY103 AND TY102
	D193015012 DS1-121589	GIBBY	WOODRICH	102689		WHAT WE KNOW ABOUT CONTENT OF SST'S BASED ON CHARACTERIZATION DATA
	D193015677 9055146	LEGGETT	GERTON	071890		COMPARISON OF WASTE CHARACTERIZATION PLAN
R-01184	LET-020676	SCHUELEIN	MCRAE ET AL	19760206		A QUALITY ASSURANCE PROGRAM FOR SALT CAKE CHARACTERIZATION
R-01373	WHC-EP-0210 DRFT	WINTERS ET AL		19890120		WASTE CHARACTERIZATION PLAN (WASTE ANALYSIS PLAN) FOR HANFORD SITE SINGLE SHELL TANKS
R-01417	65452-86-061	SUBRAHMANYAM	FUKUMOTO ET AL	19860505		CHARACTERIZATION OF GAMMA EMITTERS
R-01944	SD-WM-TPP-033	SASAKI ET AL	DIST.	09/25/87		TANK FARM WASTE CHARACTERIZATION TECHNOLOGY PROGRAM PLAN
R-02970	DSI-011090	CAROTHERS	DUNFORD	19900110		TANK 103-C CHARACTERIZATION SCHEDULE STATUS
R-03318294	13331-89-491	LARRICK	FLYCKT ET AL	19891218		WASTE STREAM CHARACTERIZATION FOR 242-A EVAPORATOR
R-05758	DOE/S-0048	DOE		05/01/86		RECOMMENDATION BY THE SECRETARY OF ENERGY OF CANDIDATE SITES FOR SITE CHARACTERIZATION FOR THE FIRST RADIOACTIVE-WASTE REPOSITORY
R-07541	654-53-85-041	BRATZEL	APPEL	02/28/85		CHARACTERIZATION OF COMPLEXANT CONCENTRATE SUPERNATANT
R-08409	DOC-090190	CAREY		09/01/90		TANK CHARACTERIZATION DATABASE CONCEPT

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WTS #	Document Number	Author Name	Addressee Name	Rev Doc Date No	Document Title
R-08434	DOE/RW-0184-R1 VOLUM	DOE	OAK RIDGE	07/01/92	CHARACTERISTICS OF POTENTIAL REPOSITORY WASTES
R-08435	DOE/RW-0184-R1 VOLUM	DOE	OAK RIDGE LABOR	07/01/92	CHARACTERISTICS OF POTENTIAL REPOSITORY WASTES
R-08436	DOE/RW-0184-R1 VOLUM	DOE	OAK RIDGE LABOR	07/01/92	CHARACTERISTICS OF POTENTIAL REPOSITORY WASTES
R-08437	DOE/RW-0184-R1 VOLUM	DOE	OAK RIDGE LABOR	07/01/92	CHARACTERISTICS OF POTENTIAL REPOSITORY WASTES
R-08617	TWR-M-075-92	HARMON	PUTHOFF	09/14/92	CHANGE REQUEST TWR-M-75-92, "INTEGRATION OF DOUBLE SHELL TANK, SINGLE SHELL TANK CHARACTERIZATION PLANS"
R-08663	PNL-7758	PETERSON		09/01/89	CHARACTERIZATION OF THE FIRST CORE SAMPLE OF NEUTRALIZED CURRENT ACID WASTE FROM DOUBLE SHELL TANK 101-AZ
R-08839	HW-39432			12/01/55	OPERATIONAL CHARACTERISTICS OF SUBMERGED GAS-LIFT CIRCULATORS
R-09385	DRAFT-090186	FOW		09/01/86	CHARACTERIZATION OF WASTE FROM DOUBLE-SHELL TANK SY-103
R-09640	SD-WM-TPP-033	SASAKI ET AL		04/05/88 02	TANK FARM CHARACTERIZATION TECHNOLOGY PROGRAM PLAN
R-09772	PLAN-072689		CARNAHAN	07/26/89	PROPOSED CHARACTERIZATION/ASSESSMENT RESEARCH FIVE YEAR RESEARCH, DEVELOPMENT, DEMONSTRATION TESTING AND EVALUATION PROGRAM
R-10212	PRE-041188	JENSEN		04/11/88	HWVP/B PLANT CRITICAL INTERFACES-PART 11 (WASTE CHARACTERIZATION)
R-10292	DS-XXXXXX				200 AREA TREATED EFFLUENT SYSTEM--LIQUID EFFLUENT CHARACTERIZATION DATA
R-10327	LET-040577	HORTON	CHRISTENSEN	04/05/77	CHARACTERIZATION AND ANALYSIS OF TANK 105-U SLUDGE
R-10328	LET-031777	HORTON	CHRISTENSEN	03/17/77	CHARACTERIZATION OF TANK 104-SX SALTS
R-10330	LET-032977	HORTON	CHRISTENSEN	03/27/99	CHARACTERIZATION AND ANALYSIS OF TANK 105-SX SALTS
R-10341	LET-040177	HORTON	CHRISTENSEN	04/01/77	CHARACTERIZATION OF TANK 105-C SLUDGE
R-10343	LET-040177	HORTON	CHRISTENSEN	04/01/77	CHARACTERIZATION OF TANK 105-C SLUDGE
R-10344	LET-100474	HORTON	CHRISTENSEN	10/04/74	CHARACTERIZATION OF SX105 SLUDGE SAMPLE
R-10345	LET-040177	HORTON	CHRISTENSEN	04/01/77	CHARACTERIZATION OF TANK 105-C SLUDGE
R-10346	LET-072277	HORTON	CHRISTENSEN	07/22/77	CHARACTERIZATION AND ANALYSIS OF TANK 106-C

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R-10347	DRAFT-031188	HENRY		03/11/88	KEYWORD TANK CHARACTERIZATION
R-10348	SD-WM-TP-130	HENDRICKSON		04/17/92	TANK 241-AP-105 SAMPLING AND CHARACTERIZATION PLAN
R-10381	9001268	SONNICHSEN	SHADE	03/22/90	LABORATORY ANALYSIS PLAN FOR T-106 SOIL SAMPLE CHARACTERIZATION
R-10556	23853	DETAMORE		02/28/84	REVIEW OF REMOTE-HANDED SPECIAL CASE TRU WASTE CHARACTERIZATION SUMMARY
R-10558	LET-010675	HORTON	RASMUSSEN	01/06/75	ANALYSIS AND CHARACTERIZATION OF SLUDGE SAMPLE FROM TANK 106-C
R-10559	65453-85-041	BRATZEL	APPEL	02/28/85	CHARACTERIZATION OF COMPLEXANT CONCENTRATE SUPERNATANT
R-10572	12362-90-LHR-072	BARRINGTON	ROGERS, DIST	06/29/90	WASTE CHARACTERIZATION OF PLUTONIUM FINISHING PLAN T WASTE TO 2421-Z
R-10574	SD-DD-TI-058 REV 0	CARVER		01/13/92	TANK-CX-71 WASTE CHARACTERIZATION
R-10593	9055130	DILIBERTO	MCGRAIL	07/25/90	TECHNICAL PROGRAM PLAN FOR CHARACTERIZATION OF TANK 102-SY SAMPLE #2
R-10594	WHC-S-038, REV 0-D	FUNNELL		08/09/90	TANK WASTE CHARACTERIZATION / NCAW SAMPLING TRANSFER CASK
S-00099	CALC-012682			19820126	SDS LINER CHARACTERISTICS
S-00303	CALC-010184			19840101	CHARACTERISTICS OF ATM APPROVED TESTING MATERIAL FUEL
S-00400	SAND85-1476	UARRANT		19851001	CHARACTERIZATION STUDY OF RH-TRU WASTES EXISTING IN STORAGE AND EXPECTED TO BE GENERATED
S-00583	ARH-0629	KNIGHTS	DIST.	19680628	HYDROGEN CONTROL & CONTAINERS - PLUTONIUM NITRATE SHIPPING CONTAINERS SUMMARY REPORT ON RADIOLYSIS AND POLYETHYLENE CHARACTERIZATION TESTS
SST-0165		SKOLRUD JO, OBE		70/10/15	CHARACTERIZATION OF ITS FEED AND BOTTOMS TANK MATERIAL
SST-0701	RHO-CD-3				CHARACTERIZATION/ SD PROGRAM - FILE FOLDER - JULY 1977 - SEPT 1977
SST-0738	ARH-CD-501	ARHCO		75/11/14	HAZARDS REVIEW - SALT CAKE CHARACTERIZATION

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SST-1077	RHO-CD-1019	RHO		80/09/00	HANFORD HIGH - LEVEL DEFENSE WASTE CHARACTERIZATION - A STATUS REPORT
SST-1461	ARH-3059	ARHCO		74/04/12	SALT CAKE WASTE CHARACTERIZATION PROGRAM
SST-1473	ARH-CD-222	ARHCO		74/12/04	CHARACTERIZATION OF THE EFFECTS OF DIATOMACEOUS EARTH ADDITIONS TO HANFORD WASTES
SST-1518	ARH-CD-501	ARHCO		75/11/14	HAZARDS REVIEW - SALT CAKE CHARACTERIZATION
SST-1561	RHO-CD-962	RHO		80/04/00	LABORATORY PHYSICAL AND CHEMICAL CHARACTERIZATION OF HANFORD WASTES - KEY DOCUMENT
SST-1563	RHO-CD-1019	RHO		80/07/00	HANFORD HIGH LEVEL DEFENSE WASTE CHARACTERIZATION - A STATUS REPORT
SST-1564	RHO-CD-1019	RHO		80/09/00	HANFORD HIGH LEVEL DEFENSE WASTE CHARACTERIZATION - A STATUS REPORT
SST-1674		ARHCO		75/09/30	SLUDGE AND SALT CAKE CHARACTERIZATION PROCESS TEST
SST-1683		DOE			DATA BASE FOR WASTE CHARACTERIZATION
SST-1876	65463-80-047	RHO		80-08-05	241 - TANK FARM CHARACTERIZATION
SST-1901	RHO-HS-ST-1	RHO		82/02/26	SITE CHARACTERIZATION AND INVENTORY OF HANFORD DEFENSE WASTE
SST-5159		RHO			ANALYSIS AND CHARACTERIZATION OF B361 TANK SLUDGE
SST-5212	QCRN/29639	RHO			C291 STACK CHARACTERIZATION
SST-5219	QCRN/29675	RHO			C291 STACK CHARACTERIZATION
T-00297	DSI-121589	GIBBY	WODRICH	19891215	WHAT WE KNOW ABOUT CONTENT OF SST BASED ON CHARACTERIZATION
T-00428	DSI-053190	BRATZEL	SLOUGHTER	19900531	SY101 CORE CHARACTERIZATION QA LEVEL
T-00460	HU-27492	UAGNER		19530317	INVESTIGATION OF EXPLOSIVE CHARACTERISTICS OF PUREX SOLVENT DECOMPOSITION PRODUCTS (RED-OIL)
T-00484	REP-052290	NONE	NONE	19900522	2.0 CHEMISTRY AND TANK CHARACTERIZATION
T-00567	SD-UM-TP-089 REV 0	EDRINGTON		19900815 00	SY101 TANK CHARACTERIZATION TEST PLAN
T-00675	UHC-EP-0075	MORGAN		19880701	SUMMARY OF SST WASTE CHARACTERIZATION 1985 TO 1987

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WTS #	Document Number	Author Name	Address	Doc Date	Rev No	Document Title
T-00685	LET-101590	MORGAN	DEICHMAN	19901015		SUBTASK 4.2 MATERIAL CHARACTERIZATION MONITORING/INTERIM REPORT - SUBTASK 4.5 IN-SITU METHODS FOR PASSIVE ACOUSTIC
T-00743	LET-031676	HORTON	CHRISTENSEN	19760316		CHARACTERIZATION AND ANALYSIS OF BY104 TANK SLUDGE
T-00803	REP-111490	KELLER		19901114		CONCEPTUAL DESIGN FOR THE APPLICATION OF SEAMIST SYSTEM TO CHARACTERIZATION OF HAZARDOUS WASTE STORAGE TANKS
T-01018	16200-91-003	JONSEN ET AL	BABAO ET AL	19910114		HOW MANY DIFFERENT LOCATIONS IN TANK SY101 NEED TO BE SAMPLED TO CHARACTERIZE THE CRUST MATERIAL IN THE TANK?
T-01094	28110-PCL91-018	BECHTOLD	HILL	19910220		PARTICLE SIZE ANALYSIS DATA FOR U101 SLUDGE CHARACTERIZATION
T-01115	9100283	NEELY	FECHT	19910214		RCRA GROUND WATER MONITORING AND CHARACTERIZATION
T-01133	LET-022791	MELLINGER	JOHNSON	19910227		SOW FOR ANALYTICAL CHEMISTRY SUPPORT SR101 CHARACTERIZATION
T-01193	72100-91-014	FOULER	MCDANIEL	19910312		PROJECT U-030 ORGANIC AIRSTREAM CHARACTERIZATION
T-01226	28100-91-020	JENSEN ET AL	BABAD	19910325		NUMBER OF SAMPLES NEEDED TO CHARACTERIZE CONTENTS OF SY101 ACTIVITIES MONTHLY REPORT JANUARY 1991
T-01239	LET-112888	BUTLER	WALKER	19881128		PETROCHEMICALS-SRL-CHARACTERIZATION OF SMOKE FROM KTPB FIRE
T-01270	LET-100990	MCGRAIL	KIRCH ET AL	19901009		CHARACTERIZATION OF SECOND CORE SAMPLE OF NEUTRALIZED CURRENT ACID WASTE FROM DOUBLE SHELL TANK AZ101
T-01285	SD-WM-EV-065 REV 0	EACKER		19910404 0		A242 EVAPORATOR RESTART FEED CHARACTERIZATION PLAN
T-01360	SD-WM-TP-089 REV 1	EDRINGTON		19910419 1		SY101 TANK WASTE CHARACTERIZATION TEST PLAN
T-01384	DOE/EA-0511			19910401		CHARACTERIZATION OF SY101 ENVIRONMENTAL ASSESSMENT
T-01532	LET-051491	NEELY	FECHT	19910514		RECA GROUND WATER MONITORING AND CHARACTERIZATION ACTIVITIES MONTHLY REPORT
T-01542	LET-120688	JONES	KERR	19881206		FUTURE USE OF SY241 AND PREDICTED VAPOR CHARACTERISTICS
T-01584	SD-WM-TP-089 R2	EDRINGTON		19910521		SY101 TANK WASTE CHARACTERIZATION TEST PLAN
T-01870	SD-WM-TP-089 REV 3	CRAWFORD		09/05/91		SY101 TANK WASTE CHARACTERIZATION TEST PLAN

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T-01926	SD-WM-TP-114 REV. 1	BECHTOLD		12/20/91	WASTE CHARACTERIZATION PLAN FOR SAMPLING AND ANALYSIS OF AUGURED SURFACE SAMPLES FROM TANKS CONTAINING FERROCYANIDE WASTE
T-02063	9201812B R1	BELL	GERTON	03/11/92	BASIS FOR DELAYS ASSOCIATED WITH ISSUANCE OF WINDOW "C" WASTE CHARACTERIZATION REPORTS AND INITIATIVES TO PREVENT RECURRENT
T-02380	9105964B	GERTON	PRES., WHC	12/05/91	DRAFT LABORATORY CHARACTERIZATION OF SAMPLES TAKEN IN MAY 1991 FROM HANFORD WASTE TANK 241-SY-101
T-02427	WHC-SD-WM-TP-089	CRAWFORD	DIST	10/21/91 03	101-SY TANK WASTE CHARACTERIZATION TEST PLAN
T-02455	LET-081192	KREITER	JOHNSON	08/11/92	HYDROGEN SAFETY PROJECT (HSP) 101-SY WINDOW E CHEMICAL CHARACTERIZATION RESULTS MILESTONE 0302E PARTIAL FULFILLMENT
T-02460	WHC-SD-WM-TP-120	JEWETT	DIST	08/17/92 01	ANALYTICAL PLAN AND TEST PLAN FOR CHEMICAL ANALYSIS AND CHARACTERIZATION OF THE WINDOW "E" CORE OF TANK 241-SY-101
T-02466	WHC-SD-WM-DTR-026	HERTING	DIST	08/18/92	LABORATORY CHARACTERIZATION OF SAMPLES TAKEN IN DECEMBER 1991 (WINDOW E) FROM HANFORD WASTE TANK 241-SY-101
T-02520	SD-WM-TP-120	ANDRINGA		12/13/91	ANALYTICAL PLAN AND TEST PLAN FOR CHEMICAL ANALYSIS AND CHARACTERIZATION OF THE WINDOW "E" CORE OF TANK 241-SY-101, (WHC-SD-WM-TP-120 REV.0)
T-02535	SD-WM-DTR-024	HERTING		02/10/92	LABORATORY CHARACTERIZATION OF SAMPLES TAKEN IN MAY 1991 FROM HANFORD WASTE TANK 241-SY-101
T-02536	LET-071675	HORTON	CHRISTENSEN	07/16/75	ANALYSIS AND CHARACTERIZATION OF SLUDGE FROM TANK 101-S
Y-08644	SD-TD-AP-001	MARTIN		07/15/92	ACTIVITY PLAN FOR THE INTEGRATED INSTRUMENT PLATFORM FOR IN SITU CHARACTERIZATION OF TANK WASTES
0020-C	65453-84-339	BRATZEL		19841101	WASTE TANK CHARACTERIZATION ANALYSES
0021-C	65453-84-344	BOWTON		19841108	TEST TO DETERMINE CORE DRILLING PRECISION AND PRESERVATION OF SEGMENT INTEGRITY TO SUPPORT THE WASTE TANK CHARACTERIZATION PROGRAM
0023-C	65453-84-354	BUCKINGHAM		19841119	WASTE TANK CHARACTERIZATION ARCHIVED SAMPLES
0026-C	65630-MRA-012	ADAMS		19841213	ALTERNATE APPROACHES TO SINGLE-SHELL TANK CHARACTERIZATION AND THE VALIDATION OF THE TRAC MODEL: PRELIMINARY LOGIC AND CRITERIA

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0029-C	65453-85-023	BOWRON		19850201		EVALUATION OF CHLOROFLUOROCARBON 113 WASTE TANK CHARACTERIZATION
0031-C	65453-85-066	BOWTON ET AL		19850402		ESTIMATED LABORATORY COSTS FOR ANALYSIS OF WASTE TANK CHARACTERIZATION SAMPLES
0049-C	65000-WWS-87-021	SCHULZ		19870324		KEYWORDS AND SUBKEYWORDS FOR SINGLE-SHELL TANK CHARACTERIZATION RECORDS
0052-C	SD-WM-LB-005	BOWTON ET AL		19850509	A0	WASTE TANK CHARACTERIZATION LABORATORY QUALITY ASSURANCE PLAN
0054-C	RHO-CD-573	GRIMES		19781201	R0	HANFORD DEFENSE HIGH-LEVEL WASTE SAMPLING AND CHARACTERIZATION PLAN: KEY DOCUMENT
0056-C	RHO-CD-962	MITCHELL		19800401		LABORATORY PHYSICAL AND CHEMICAL CHARACTERIZATION OF HANFORD WASTES: KEY DOCUMENT
0066-C	RHO-CD-137	GRIMES		19771001		HANFORD LONG-TERM DEFENSE HIGH-LEVEL WASTE MANAGEMENT PROGRAM WASTE SAMPLING AND CHARACTERIZATION PLAN
0067-C	ARH-CD-571			19760301		SALT CAKE CHARACTERIZATION LABORATORY STATUS REPORT
0069-C	RHO-CD-1019	JUNGFLEISCH		19800901		HANFORD HIGH LEVEL DEFENSE WASTE CHARACTERIZATION A STATUS REPORT
0077-C	12510-85-155	SVANCARA		19850611		222-S ANALYTICAL LABORATORY ABILITY TO SUPPORT WASTE TANK CHARACTERIZATION PROGRAM (WTCP)
0082-C	65453-80-265	BRATZEL		19800918		EVALUATION OF WASTE STORAGE TANK PHYSICAL AND CHEMICAL CHARACTERIZATION DATA
0085-C	65453-83-289	BRATZEL		19831111		IDENTIFICATION OF CHEMICAL AND PHYSICAL ANALYSES IN SUPPORT OF WASTE TANK CHARACTERIZATION
0087-C	65453-85-123	BOWTON		19850619		POTENTIAL TOTAL ORGANIC CARBON ANALYSIS CORRUPTION IN WASTE TANK CHARACTERIZATION SAMPLES
0089-C	ARH-CD-682			19760601	A0	SALT CAKE AND SLUDGE CHARACTERIZATION ANALYTICAL NEEDS
0091-C	SD-WM-QA-001	IBSEN		19840621	A0	ANALYTICAL LABORATORIES MEASUREMENT CONTROL PLAN FOR WASTE TANK CHARACTERIZATION
0105-C		BOWTON		19840827		MEETING MINUTES: WASTE TANK CHARACTERIZATION
0116-C		IBSEN		19840403		MEETING MINUTES: WASTE TANK CHARACTERIZATION PROGRAM (WTCP)

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0117-C		IBSEN		19840326	MEETING MINUTES: WASTE TANK CHARACTERIZATION PROGRAM (WTCP)
0137-C	SD-WM-LB-004	BOWTON ET AL		19841004 A0	WASTE TANK CHARACTERIZATION PROGRAM SAMPLE HANDLING AND ANALYSIS PLAN (LABORATORY CUSTOMER COMMUNICATIONS SYSTEM)
0139-C		ANDERSON		19851111	SINGLE-SHELL TANK CHARACTERIZATION TEAM FY 1986 MEETING 1
0140-C		SCHULZ		19851101	CHARACTERIZATION OF SINGLE-SHELL TANK (SST) WASTES: PHILOSOPHY AND PRINCIPLES
0141-C	SD-UM-PD-024	JUNGFLEISCH		A0	SINGLE-SHELL TANK (SST) WASTE CHARACTERIZATION COST STUDY: COMMENT COPY
0143-C	65453-85-228	WEISS		19851126	ARCHIVE STORAGE OF WASTE TANK CHARACTERIZATION SAMPLES
0149-C		WEISS		19860321	TY TANK FARM WASTE CHARACTERIZATION DATA REPORT: PRELIMINARY EVALUATION TO SUPPORT TESTING DOME-FILLING TECHNOLOGY
0152-C				19851016	SST CHARACTERIZATION TEAM AGENDA: MEETING NUMBER 1
0155-C				19860328	SINGLE-SHELL TANK WASTE CHARACTERIZATION TEAM: QUARTERLY MEETING
0157-C		SCHULZ		19860301	CHARACTERIZATION OF SINGLE-SHELL TANK WASTES: STATUS AND PLANS
0160-C				19860401	LETTER REPORT: PRELIMINARY ANALYSIS OF RADIONUCLIDE INVENTORY REQUIREMENTS FOR CHARACTERIZATION OF HANFORD SINGLE-SHELL TANK WASTES
0162-C	SD-WM-TI-233	SCHULZ		19860508 A0	STRATEGY FOR CHARACTERIZATION OF SINGLE-SHELL TANKS: FY 1985 SUMMARY REPORT
0165-C	65451-86-061	JENSEN		19860415	PRELIMINARY LISTS OF SSTS FOR WASTE CHARACTERIZATION
0166-C	65451-86-096	JENSEN		19860529	RANDOMLY SELECTED SSTS FOR WASTE CHARACTERIZATION
0173-C		SCHULZ		19861028	CHARACTERIZATION OF WASTES IN SINGLE-SHELL TANKS: STATUS AND PROGRESS REPORT
0174-C		SCHULZ		19861001	SINGLE-SHELL TANK WASTE CHARACTERIZATION TEAM AGENDA: OCTOBER 1986
0175-C		ROGERS		19860611	PRELIMINARY ANALYSIS OF RADIONUCLIDE INVENTORY REQUIREMENTS FOR CHARACTERIZATION OF HANFORD SINGLE-

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						SHELL TANK WASTE
0185-C	SD-WM-TI-286	MCBEATH		19870112	A0	COST BENEFIT ANALYSIS: COMPOSITE CORE SAMPLING FOR HANFORD WASTE TANK CHARACTERIZATION
0188-C	RHO-WM-TI-LP	WEISS		19860301		TY TANK FARM WASTE CHARACTERIZATION DATA
0202-C	SD-RE-TI-184	WEISS ET AL		19870630	A0	DATA TRANSMITTAL PACKAGE FOR 241-TY-103 WASTE TANK CHARACTERIZATION
0203-C	RHO-RE-PL-41P	ENVIRONMENTAL T		19870301		SINGLE-SHELL TANK WASTE CHARACTERIZATION PLAN
0206-C	WHC-EP-0075/RD-1	MORGAN ET AL		19870901		STRATEGY FOR CHARACTERIZATION OF SINGLE-SHELL TANK WASTE: SUMMARY REPORT
0207-C		WOOD		19871029		WASTE MANAGEMENT CONSULTANTS PANEL COMMENTS ON SST CHARACTERIZATION
0208-C		SCHULZ		19871019		SINGLE-SHELL TANK WASTE CHARACTERIZATION TEAM MEETING #1
0209-C		SCHULZ		19871103		SINGLE-SHELL TANK CHARACTERIZATION TEAM MEETING #2
0210-C		SASAKI		19871123		SINGLE-SHELL TANK CHARACTERIZATION TECHNICAL ISSUES
0211-C	SD-WM-TPP-033	SASAKI ET AL		198710925	R0	TANK FARM WASTE CHARACTERIZATION TECHNOLOGY PROGRAM PLAN
0212-C		SCHULZ		19871201		SINGLE-SHELL TANK CHARACTERIZATION TEAM MEETING #3
0233-C	SD-RE-TI-185	WEISS ET AL		19870708	A0	DATA TRANSMITTAL PACKAGE FOR 241-BY-101, WASTE TANK CHARACTERIZATION
0234-C	SD-RE-TI-182	WEISS ET AL		19870630	A0	DATA TRANSMITTAL PACKAGE FOR 241-TY-104 WASTE TANK CHARACTERIZATION
0235-C	SD-RE-TI-181	WEISS ET AL		19870708	A0	DATA TRANSMITTAL PACKAGE FOR 241-TY-106, WASTE TANK CHARACTERIZATION
0236-C	SD-RE-TI-183	WEISS ET AL		19870630	A0	DATA TRANSMITTAL PACKAGE FOR 241-TY-102, WASTE TANK CHARACTERIZATION
0237-C	SD-RE-TI-202	WEISS ET AL		19880121	A0	DATA TRANSMITTAL PACKAGE FOR 241-BX-105, WASTE TANK CHARACTERIZATION
0238-C	SD-RE-TI-206	WEISS ET AL		19880121	A0	DATA TRANSMITTAL PACKAGE FOR 241-BX-104, WASTE TANK CHARACTERIZATION
0239-C	SD-RE-TI-199	WEISS ET AL		19880121	A0	DATA TRANSMITTAL PACKAGE FOR 241-C-104, WASTE TANK CHARACTERIZATION

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0240-C	SD-RE-TI-209	WEISS ET AL		19880121 A0	DATA TRANSMITTAL PACKAGE FOR 241-C-102, WASTE TANK CHARACTERIZATION
0241-C	SD-RE-TI-204	WEISS ET AL		19880108 A0	DATA TRANSMITTAL PACKAGE FOR 241-C-105, WASTE TANK CHARACTERIZATION
0242-C	SD-RE-TI-203	WEISS ET AL		19880108 A0	DATA TRANSMITTAL PACKAGE FOR 241-C-103, WASTE TANK CHARACTERIZATION
0243-C	SD-RE-TI-205	WEISS ET AL		19880108 A0	DATA TRANSMITTAL PACKAGE FOR 241-C-106, WASTE TANK CHARACTERIZATION
0244-C	SD-RE-TI-201	WEISS ET AL		19880121 A0	DATA TRANSMITTAL PACKAGE FOR 241-A-102, WASTE TANK CHARACTERIZATION
0245-C	SD-RE-TI-200	WEISS ET AL		19880121 A0	DATA TRANSMITTAL PACKAGE FOR 241-A-106, WASTE TANK CHARACTERIZATION
0246-C	SD-RE-TI-207	WEISS ET AL		19880121 A0	DATA TRANSMITTAL PACKAGE FOR 241-A-104, WASTE TANK CHARACTERIZATION
0247-C	SD-RE-TI-198	WEISS ET AL		19880108 A0	DATA TRANSMITTAL PACKAGE FOR 241-A-103, WASTE TANK CHARACTERIZATION
0248-C	SD-RE-TI-210	WEISS ET AL		19880121 A0	DATA TRANSMITTAL PACKAGE FOR 241-SX-109, WASTE TANK CHARACTERIZATION
0249-C	SD-RE-TI-186	WEISS ET AL		19880708 A0	DATA TRANSMITTAL PACKAGE FOR 241-TY-105, WASTE TANK CHARACTERIZATION
0250-C		SCHULZ		19871217	SINGLE-SHELL TANK CHARACTERIZATION TEAM MEETING #4
0251-C	12221-PLC88-174	WINTERS		19870627	SINGLE-SHELL TANK CHARACTERIZATION TEAM MEETING #5
0253-C	12221-88-056	JENSEN		19880322	STATISTICAL TECHNIQUES FOR CHARACTERIZING SINGLE-SHELL TANK WASTE
292-000017 BNWL-CC-0701		RAYMOND		06/13/66	CHARACTERIZATION SUBSURFACE CONTAMINATION IN SX241 TANK FARM
292-000229 LET-082881		DEFIGH-PRICE	ABRAMS	08/28/81	SOIL CHARACTERISTICS AT HANFORD
292-000582 RHO-CD-137		GRIMES	ELGERT	10/01/77	HANFORD LONG-TERM DEFENSE HIGH-LEVEL WASTE MANAGEMENT PROGRAM WASTE SAMPLING AND CHARACTERIZATION PLAN
292-000638 LET-101979		ROAL	MURTHY	10/19/79	CHARACTERIZATION FUTURE WASTE TO BE STORED AW241/AN241
292-000941 LET-121575		VAN DER COOK	ROAL ET AL	12/15/75	RESPONSE TO HAZARDS REVIEW - SALT CAKE WASTE CHARACTERIZATION

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292-000942	LET-010576	ALLEN	DIST.	01/05/76		SALT CAKE AND SLUDGE CHARACTERIZATION PROGRAM PLAN
292-000943	LET-011376	BABAD	ALLEN ET AL	01/13/76		SALT CAKE AND SLUDGE CHARACTERIZATION PROGRAM PLAN
292-000944	LET-011576	MCRAE	ALLEN ET AL	01/15/76		COMMENTS ON SALT CAKE AND SLUDGE CHARACTERIZING PROGRAM PLAN
292-000945	LET-021676	MCRAE	SCHUELEIN ET AL	02/16/76		A QUALITY ASSURANCE PROGRAM FOR SALT CAKE CHARACTERIZATION
292-000983	LET-120779	ROAL	MURTHY	12/07/97		CHARACTERIZATION OF FUTURE WASTE TO BE STORED AW241/AN241
292-001018	PNL-7258	HARA ET AL		04/30/90		SST SAMPLE CHARACTERIZATION ANALYSIS OF ARCHIVE SAMPLES C102, C105 AND C106
292-001069	SD-RE-TI-202	UEISS ET AL	DIST.	01/21/88	D	DTP FOR BX105 WASTE TANK CHARACTERIZATION
292-001070	SD-RE-TI-206	WEISS ET AL	DIST.	01/21/80		DTP FOR BX104 WASTE TANK CHARACTERIZATION
292-001071	SD-RE-TI-209	WEISS ET AL	DIST.	01/21/88		DTP FOR C102 WASTE TANK CHARACTERIZATION
292-001196	13331-88-018			01/20/88		TANK 103-C CHARACTERIZATION INTERIM STATUS
292-001207	WHC-EP-0210 DRAFT			01/20/89		WASTE CHARACTERIZATION PLAN (WASTE ANALYSIS PLAN) FOR THE HANFORD SITE SINGLE-SHELL TANKS
292-001208	WHC-EP-0210 VOL 1 & WINTERS ET AL			08/01/90		WASTE CHARACTERIZATION PLAN FOR HANFORD SITE SINGLE SHELL TANKS
292-001209	WHC-EP-0210			12/31/92	2	WASTE CHARACTERIZATION PLAN FOR HANFORD SITE SINGLE SHELL TANKS
292-001210	WHC-EP-D210 REV 2			12/31/90		WASTE CHARACTERIZATION PLAN FOR HANFORD SITE SINGLE SHELL TANKS
292-001224	WHC-EP-0210, REV 1			12/00/90	1	WASTE CHARACTERIZATION PLAN FOR HANFORD SITE SINGLE SHELL TANKS
292-001238	DRAFT-012076	TANAKAHAM	ALBAUGH	01/20/76		WASTE CHARACTERISTICS FOR DOUBLE-SHELL TANK PUMPS
292-001359	DSI-D81588	WOOD	SOWA	08/15/88		REVIEW OF SINGLE SHELL TANK CHARACTERIZATION BASED ON TRAC COMPUTER MODEL"
292-001363	PRE-050187	SCHULZ		05/01/87		SINGLE SHELL TANK WASTE CHARACTERIZATION UTILIZATION OF TRAC MODEL
292-001365	PRE-050187	WEISS		05/01/87		222-S LAB SINGLE SHELL TANK WASTE CHARACTERIZATION

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292-001603 RHO-ST-039	VAN LUIK ET AL		19820301	216-S-1/S-2 MIXED FISSION PRODUCT CRIB CHARACTERIZATION
292-001620 RHO-HS-ST-1		DOE	02/26/82	SITE CHARACTERIZATION & INVENTORY OF HANFORD DEFENCE WASTE
292-001635 SD-RE-TI-182	WEISS	OPER DISTRIBUTI	06/30/87	DATA TRANSMITTAL PACKAGE FOR 241-TY-104 WASTE TANK CHARACTERIZATION
292-001636 SD-RE-TI-183	WEISS	DISTRIBUTION	06/30/87	DATA TRANSMITTAL PACKAGE FOR 241-TY-102 WASTE TANK CHARACTERIZATION
292-001637 SD-RE-TI-184	WEISS	DISTRIBUTION	19870630	DTP FOR TY103 WASTE TANK CHARACTERIZATION
292-001638 SD-RE-TI-185	WEISS	DISTRIBUTION	07/08/87	DATA TRANSMITTAL PACKAGE FOR 241-TY-101 WASTE TANK CHARACTERIZATION
292-001639 SD-RE-TI-186	WEISS	DISTRIBUTION	19870705	DTP FOR TY105 WASTE TANK CHARACTERIZATION
292-001640 SD-RE-TI-199	WEISS	DISTRIBUTION	01/21/88 0	DATA TRANSMITTAL PACKAGE FOR 241-C-104 WASTE TANK CHARACTERIZATION
292-001641 SD-RE-TI-203	WEISS	DISTRIBUTION	01/08/88 0	DATA TRANSMITTAL PACKAGE FOR 241-C-103 WASTE TANK CHARACTERIZATION
292-001642 SD-RE-TI-204	WEISS	DISTRIBUTION	01/08/88 0	DATA TRANSMITTAL PACKAGE FOR 241-C-105 WASTE TANK CHARACTERIZATION
292-001811 RHO-RE-PL-41 P	ANDERSON ET AL	DOE	03/01/87	SINGLE SHELL TANK WASTE CHARACTERIZATION PLAN
292-001848 RFP-3357	JENSEN ET AL	DOE	05/01/83	CHARACTERISTICS OF TRANSURANIC WASTE AT DOE SITES
292-002382 RHO-HS-ST-0001 DRAFT RHO		DOE	02/26/82	SITE CHARACTERIZATION AND INVENTORY OF HANFORD DEFENSE WASTE
292-002383 RHO-WM-TI-1P	WEISS		03/01/86	TY TANK FARM WASTE CHARACTERIZATION DATA
292-002427 ARH-CD-645 REV	ALLEN	DIST.	02/01/77	SALT CAKE AND SLUDGE CHARACTERIZATION PROGRAM PLAN
292-002428 RHO-CD-3	ALLEN	DIST.	07/01/77	SALT CAKE AND SLUDGE CHARACTERIZATION PROGRAM TX11 6 HOT TEST AND SUBSEQUENT COLD TEST RESULTS
292-002514 SD-CP-TP-065	WELSH		03/08/91	AN106 CHARACTERIZATION RESULTS GROUT
292-002515 SD-CP-TP-065	WELSH		03/08/91	TANK 241-AN-106 CHARACTERIZATION RESULTS
292-002535 SD-WM-TI-198	WEISS ET AL		01/08/08	A103 WASTE TANK CHARACTERIZATION
292-002632 RHO-WM-TI-LP	WEISS		03/01/86	TY TANK FARM WASTE CHARACTERIZATION STUDY

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292-002863	65453-85-023	BOWTON	GEIER ET AL	02/01/85		EVALUATION OF CHLOROFLUOROCARBON 113 FOR WASTE TANK CHARACTERIZATION
292-002935	DSI-110690	HICKEY	DISTRIBUTION	11/06/90		VAPOR SPACE CHARACTERIZATION PLAN MEETING REVIEW
292-002947	9000845	PETERSON	DILIBERTO	02/16/90		PRELIMINARY RESULTS - PHYSICAL AND RHEOLOGICAL CHARACTERIZATION OF THE AS-RECEIVED WASTE FROM DST 101-AZ CORE #2
292-002951	9000855	PETERSON	DILIBERTO	02/12/90		REVISED REPORT ON THE RESULTS OF 102-AY CHARACTERIZATION
292-003000	89-246-SIA	ANDERSON	SCHADE	08/22/89		SITE CHARACTERIZATION REQUIREMENTS FOR SY102 WASTE SOLUTION PRIOR TO CROSS SITE TRANSFER TO AY101
292-003309	13230-89-TDB-0088	BLANKENSHIP	DUNFORD	03/21/89		RADIONUCLIDE CHARACTERIZATION QUESTIONNAIRE ACTION ITEM NO 596
292-003310	13800-88-GTD-0041	DUKELOW	DIST	12/16/88		RADIONUCLIDE CHARACTERIZATION QUESTIONNAIRE
292-00940	DRAFT-091575	VAN DER COOK	SCHUELEIN ET AL	09/15/75		PROPOSED ANALYTICAL STANDARDS AND REQUIREMENTS FOR WASTE CHARACTERIZATION
29201196	13331-88-018	CAROTHERS	DIST.	01/20/88		TANK C103 CHARACTERIZATION INTERIM STATUS
293-000048	DSI-060889	CAROTHERS	HARLOW ET AL	06/08/89		LOGICAL STOPPING POINT FOR THE TANK C103 CHARACTERIZATION PROJECT
293-000051	13331-89-020	CAROTHERS	WASHENFELDER ET	01/18/89		TANK C103 CHARACTERIZATION FISCAL YEAR 1989 WORK SCOPE
293-000055	PRE-XXXXXX					TANK C103 CHARACTERIZATION
293-000057	13331-88-034	CAROTHERS	FOREHAND ET AL	01/21/88		TANK C103 CHARACTERIZATION FISCAL YEAR 1988 WORK SCOPE
293-000059	PAPER-XXXXXX					TANK C103 CHARACTERIZATION PROJECT COST BREAKDOWN
293-000060	REP-011388			01/13/88		TANK C103 CHARACTERIZATION STATUS
293-000063	MM-101287	CAROTHERS	DIST	10/12/87		TANK C103 CHARACTERIZATION TASK FORCE
293-000064	MM-082787	CAROTHERS	DIST	08/27/87		TANK C103 CHARACTERIZATION TASK FORCE
293-000065	PRE-XXXXXX					TANK C103 CHARACTERIZATION
293-000066	MM-092287	CAROTHERS	DIST	09/22/87		TANK C103 CHARACTERIZATION TASK FORCE
293-000067	MM-091487	CAROTHERS	DIST	09/14/87		TANK C103 CHARACTERIZATION TASK FORCE

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293-000068 MM-100187	CAROTHERS	DIST	10/01/87	TANK C103 CHARACTERIZATION TASK FORCE
293-000069 MM-091087	CAROTHERS	DIST	09/10/87	TANK C103 CHARACTERIZATION TASK FORCE
293-000070 PRE-090987			09/09/87	TANK C103 CHARACTERIZATION
293-000071 MM-082687	CAROTHERS	DIST	08/26/87	TANK C103 CHARACTERIZATION TASK FORCE
293-000072 DS1-090487	CAROTHERS	DIST	09/04/87	TANK C103 CHARACTERIZATION ACTION PLAN
293-000073 DS1-090887	CAROTHERS	DIST	09/08/87	AGENDA FOR NEXT TANK C103 CHARACTERIZATION TASK FORCE MEETING
293-000323 13331-89-491	LARRICK	FLYCKT ET AL	12/18/89	WASTE STREAM CHARACTERIZATION FOR 242-A EVAPORATOR
293-002046 MM-113088	CAROTHERS	DIST	11/30/88	TANK C103 CHARACTERIZATION TASK FORCE
293-002189 28200-91-044	KEELE	JEPPSON	06/17/91	STATUS OF THE RADIOLOGICAL CHARACTERIZATION OF 241-BY-104
293-002525 FAX-120387	PETERSON	DILIBERTO	12/03/87	WASTE CHARACTERIZATION OF DST'S AZ101 AND AZ102
293-002976 SD-DD-TI-040	CUMMINGS		07/09/79	TANK 241-CX-72 PRELIMINARY WASTE CHARACTERIZATION
293-002996 ARHC-111676	HORTON	CHRISTENSEN	11/16/76	ANALYSIS AND CHARACTERIZATION OF 361-B TANK SLUDGE
293-003058 65120-79-113 J	HORTON	MIRABELLA	07/23/79	CHARACTERIZATION OF TANK 361-B
293-003105 ARHC-053174	PEABODY	HARLOW	05/31/74	CHARACTERIZATION OF 316-Z-8 TANK AND 361-Z SETTLING TANK
293-003156 65120-79-113 J	HORTON	MIRABELLA	07/23/79	CHARACTERIZATION OF TANK 361-B
293-003175 DOE/RW-0006		DISTRIBUTION	10/01/90 6	INTEGRATED DATA BASE FOR 1990: U.S. SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 1 OF 3
293-003186 DOE/RW-0006		DISTRIBUTION	10/01/90 6	INTEGRATED DATA BASE FOR 1990: U.S. SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 2 OF 3
293-003187 DOE/RW-0006		DISTRIBUTION	10/01/90 6	INTEGRATED DATA BASE FOR 1990: U.S. SPENT FUEL RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 3 OF 3
293-003205 SD-WM-TPP-033	SASAKI	ADAMS	09/25/87	TANK FARM WASTE CHARACTERIZATION TECHNOLOGY PROGRAM PLAN SECTION 1 OF 2
293-003206 SD-WM-TPP-033	SASAKI		09/25/87	TANK FARM WASTE CHARACTERIZATION TECHNOLOGY PROGRAM PLAN SECTION 2 OF 2

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293-003280	WHC-EP-0210	HILL		09/01/91 3	WASTE CHARACTERIZATION PLAN FOR THE HANFORD SITE SINGLE-SHELL TANKS APPENDIX I - TEST PLAN FOR SAMPLING AND ANALYSIS OF TEN SINGLE-SHELL TANKS
293-003334	PB85-168771 VOL 2	FORD		12/01/84	CHARACTERIZATION OF HAZARDOUS WASTE SITES- A METHODS MANUAL- VOLUME 11, AVAILABLE SAMPLING METHODS, SECOND EDITION SECTION 2 OF 3
293-003426	PB85-168771 VOL 2	FORD		12/01/84	CHARACTERIZATION OF HAZARDOUS WASTE SITES A METHOD MANUAL--VOLUME 11, AVAILABLE SAMPLING METHODS, SECOND EDITION
293-003428	PB85-168771 VOL 2	FORD		12/01/84	CHARACTERIZATION OF HAZARDOUS WASTE SITES A METHOD MANUAL-- VOLUME 11, AVAILABLE SAMPLING METHODS, SECOND EDITION SECTION 3 OF 3
293-003456	REP-060189	SCHEELE		06/01/89	RESULTS OF THE CHARACTERIZATION OF SAMPLES OF WASTE FROM DOUBLE-SHELL TANK 102-SY
293-003457	8902770	PETERSON	DILIBERTO	06/30/89	LETTER REPORT - RESULTS OF THE CHARACTERIZATION OF SAMPLES OF WASTE FROM DOUBLE-SHELL TANK 102-SY
293-003480	DOE/RW-0006			12/01/85 01	SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 1 OF 3
293-003481	DOE/RW-0006			12/01/85 1	SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 2 OF 3
293-003485	DOE/RW-0006			12/01/85 1	SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 3 OF 3
293-003486	DOE/NE-0017-1	COFFMAN		10/01/82	SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS
293-003487	DOE/RW-0017-1			10/01/82	SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 2 OF 4
293-003489	DOE/RW-0017-1			10/01/82	SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 3 OF 4
293-003490	DOE/RW-0017-1			10/01/82	SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 4 OF 4
293-003509	DOE/NE-0017/2			09/01/83	SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 2 OF 3
293-003511	DOE/RW-0006	THEREAULT		09/01/84	SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS

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293-003513	DOE/RW-0006			09/01/84		SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 2 OF 3
293-003515	DOE/NE-0017/2	THEREAULT		09/01/83		SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS; SECTION 3 OF 3
293-003554	ECN-163837	HENDERSON		03/06/92		TANK AP106 SAMPLING AND CHARACTERIZATION PLAN - ENGINEERING CHANGE NOTICE
293-003651	DOE/NE-0017/2			09/01/83		SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 1 OF 3
293-003664	WHC-EP-0133	BAKER		06/01/88		U1/U2 URANIUM PLUME CHARACTERIZATION, REMEDIAL ACTION REVIEW AND RECOMMENDATION FOR FUTURE ACTION
293-003966	LETTER-042792	GASPER	NOONAN	04/27/92		WASTE TANK SAFETY PROGRAMS TANK CHARACTERIZATION REQUIREMENTS
293-004056	DOE/RW-0006			09/30/88	4	SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS
293-004099	DOE/RW-0006			09/01/88	4	INTEGRATED DATA BASE FOR 1988: SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES PROJECTIONS, AND CHARACTERISTICS
293-004102	DOE/RW-0006			11/01/89	5	INTEGRATED DATA BASE FOR 1989: SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS
293-004147	DOE/RW-0006			09/01/84		SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 3 OF 3
293-004155	DSI-111987	SCOTT	WOLFE	11/19/87		CHARACTERIZATION OF HANFORD WASTE VITRIFICATION PLANT WASTE FEED
293-004465	DOE/RW-0006			11/30/89	5	INTEGRATED DATA BASE FOR 1989: SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS AND CHARACTERISTICS
293-004515	DOE/RW-0006			09/01/86	2	INTEGRATED DATA BASE FOR 1986: SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS
293-004518	DOE/RW-0006			09/01/87	3	INTEGRATED DATA BASE FOR 1987: SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS
293-004612	12500-92-052	EMERY	DODD	04/07/92		STATEMENT OF WORK FOR GROUT TREATMENT FACILITY CHARACTERIZATION PROJECT FOR FISCAL YEAR 1992

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293-004717	SD-M-LB-004	BOWTON		07/24/85	0	WASTE TANK CHARACTERIZATION PROGRAM SAMPLE HANDLING AND ANALYSIS PLAN
293-004736	PNL-013174	COLEMAN	POSAKONR	01/31/74		ACOUSTICAL HOLOGRAPHY FOR THE CHARACTERIZATION OF THE CONTENTS OF NUCLEAR WASTE TANKS
293-004756	93353176	PROSPON	GERTON	04/19/93		DELIVERY OF TWO SINGLE-SHELL TANK CHARACTERIZATION REPORTS
293-004873	MM-112989	G.L. DUNFORD	HARLOW ET	11/29/89		ENGINEERING HELP ON STREAM CHARACTERIZATION REPORT
293-004896	65413-79-161	GOLD	GROTH	10/08/79		DOUBLE SHELL SLURRY CHARACTERISTICS OF PUREX CAMPAIGN MATERIAL
293-004898	65413-79-193	GOLD	GROTH	11/27/79		DOUBLE SHELL SLURRY CHARACTERISTICS OF PUREX CAMPAIGN MATERIALS
293-005002	65611-84-167	SASAKI	RODGERS	10/01/84		SLURRY GROWTH MONITORING AND CHARACTERIZATION OF DOUBLE SHELL SLURRY FROM THE UPCOMING DOUBLE SHELL SLURRY RUN
293-005017	PAPER-XXXXXX	JANSKR				SLURRY GROWTH: THE CHARACTERIZATION OF A UNIQUE PHENOMENON AT THE HANFORD SITE
293-005050	DOE/RW-0074	DOE		05/01/86		A MULTIATTRIBUTE UTILITY ANALYSIS OF SITES NOMINATED FOR CHARACTERIZATION FOR THE FIRST RADIOACTIVE-WASTE REPOSITORY--A DECISION-AIDING METHODOLOGY
293-005051	DOE/RW-0074			05/01/86		A MULTIATTRIBUTE UTILITY ANALYSIS OF SITES NOMINATED FOR CHARACTERIZATION FOR THE FIRST RADIOACTIVE-WASTE REPOSITORY - A DECISION-AIDING METHODOLOGY
293-005089	DOE/RW-0074			05/01/86		A MULTIATTRIBUTE UTILITY ANALYSIS OF SITES NOMINATED FOR CHARACTERIZATION FOR THE FIRST RADIOACTIVE-WASTE REPOSITORY - A DECISION-AIDING METHODOLOGY
293-005090	DOE/RW-0074			05/01/86		A MULTIATTRIBUTE UTILITY ANALYSIS OF SITES NOMINATED FOR CHARACTERIZATION FOR THE FIRST RADIOACTIVE-WASTE REPOSITORY - A DECISION AIDING METHODOLOGY
293-005206	80322-89-160	CARPENTER	BAUMHARDT	08/25/89		ENVIRONMENTAL ASSURANCE ASSESSMENT: WASTE CHARACTERIZATION FOR CROSS-SITE TRANSFER
293-005207	13230-89-TDB-226	BLANKENSHIP	CARPENTER	08/28/89		WASTE CHARACTERIZATION FOR CROSS-SITE TRANSFER
293-005348	REP-XXXXXX					SOLIDIFICATION PROCESSES PHOSPHATE VS CLAY -- PRODUCT CHARACTERISTICS RELATIVE TO SALT CAKE
293-005360	DSI-121589	GIBBY	WODRICH	12/15/89		WHAT WE KNOW ABOUT CONTENT OF SINGLE SHELL TANKS BASED ON CHARACTERIZATION DATA

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293-005470	PNL-8560	QUADREL		04/01/93	AN UNDERGROUND STORAGE TANK INTEGRATED DEMONSTRATION REPORT VOLUME 1: WASTE CHARACTERIZATION DATA AND TECHNOLOGY DEVELOPMENT NEEDS ASSESSMENT SEC 10F2
293-005471	PNL-8560	QUADREL		04/01/93	AN UNDERGROUND STORAGE TANK INTEGRATED DEMONSTRATION REPORT VOLUME 1: WASTE CHARACTERIZATION DATA AND TECHNOLOGY DEVELOPMENT NEEDS ASSESSMENT SEC 20F2
293-005513	ECN-163837	HENDRICKSON		03/09/92	ECN-163837 TO TANK 241-AP-106 SAMPLING AND CHARACTERIZATION PLAN
293-005771	SD-WM-TP-117	HENDRICKSON		01/01/92 0	TANK AP106 SAMPLING AND CHARACTERIZATION PLAN
293-005833	SD-WM-TI-213	STEINER	DILIBERTO	12/05/85	EVALUATION OF THE SYNTHETIC PLUTONIUM FINISHING PLANT WASTE CHARACTERIZATION
293-005945	ECN-163834		DISTRIBUTION	02/11/92	TANK 241-AP-106 SAMPLING AND CHARACTERIZATION PLAN - ENGINEERING CHANGE NOTICE
293-005973	MM-061185	HANSON	DILIBERTO	06/11/85	CHARACTERIZATION OF AGING WASTE
293-006008	9354378 DRAFT	MOBLEY ET AL		05/27/93	TANK WASTE CHARACTERIZATION PROGRAM PLAN - DRAFT SECTION 2 OF 2
293-006018	WHC-WP-0643	BROWN ET AL		04/01/93	TANK CHARACTERIZATION FOR SINGLE-SHELL TANK 241-U-110 SECTION 2 OF 2
293-006028	9354378 DRAFT	MOBLEY ET AL		05/27/93	TANK WASTE CHARACTERIZATION PROGRAM PLAN - DRAFT SECTION 1 OF 2
293-006255	WHC-SD-DD-TI-040 REV CUMMINGS			06/30/89 0	TANK 241-CX-72 PRELIMINARY WASTE CHARACTERIZATION
293-006429	LET-022476	HORTON	CHRISTENSEN	02/24/76	CHARACTERIZATION AND ANALYSIS OF TANK S104 SLUDGE
293-006444	LET-111676	HORTON	CHRISTENSEN	11/16/76	ANALYSIS AND CHARACTERIZATION OF B361 TANK SLUDGE
293-006452	LET-031676	HORTON	CHRISTENSEN	03/16/76	CHARACTERIZATION AND ANALYSIS OF BY104 TANK SLUDGE
293-006465	LET-010876	BRUNS	JENSEN	01/08/76	T101 CHARACTERIZATION
293-006477	13841-89-003	STROPE	BARRINGTON	01/12/89	CHARACTERIZATION OF PLUTONIUM FINISHING PLANT WASTE STREAMS
293-006540	0105	ALLEN	MCKENZIE	09/09/77	ISOLATION AND STABILIZATION PROGRAM NEEDS FROM THE WASTE CHARACTERIZATION PROGRAM
293-006565	9354296	WELLS	RUTHERFORD	05/28/93	CHANGE REQUEST TWR-N93-032 "COMPREHENSIVE CHANGES TO CHARACTERIZATION MILESTONES"

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293-006598	65453-85-205	BRATZEL	ANDERSON		10/28/85		WASTE TANK CHARACTERIZATION SAMPLE BREAKDOWN RATES
293-006771	SD-WM-TI-215	KIMURA			12/12/85	0	CHARACTERIZATION OF SELECTED DOUBLE-SHELL TANK VAPOR SPACE RADIONUCLIDES
293-006801	UHC-WP-0643	BROW ET AL			04/01/93		TANK CHARACTERIZATION FOR SINGLE-SHELL TANK 241-U-110 SECTION 1 OF 2
293-006823	9354442	WELLS	RUTHERFORD		06/03/93		CHANGE REQUEST TWR-N93-035 CHANGE CHARACTERIZATION MILESTONE 4310 AND DELETE MILESTONE 4304
293-006910	WHC-EP-0640	SIMPSON ET AL			04/01/93		TANK CHARACTERIZATION REPORT: TANK 241-C-112 SECTION 1 OF 2
293-006968	9354389	MCKILEY	SASAKI		06/14/93		PNL PROCEDURES FOR CHARACTERIZATION IN SUPPORT OF TWRS TWCP
293-006971	9355035	MOBLEY	VICKERY		06/22/93		ESTIMATES FOR SUPPORT OF TANK WASTE CHARACTERIZATION
293-006973	WHC-EP-0640	SIMPSON ET AL			04/01/93		TANK CHARACTERIZATION REPORT: TANK 241-C-112 SECTION 2 OF 2
293-007057	SD-UM-TI-213				12/05/85	0	EVALUATION OF THE SYNTHETIC PLUTONIUM FINISHING PLANT WASTE CHARACTERIZATION DATE
293-007078	9157948	EAKEF:	ARTHUR		10/21/91		LETTER OF INSTRUCTION FOR RADILOGICAL ASSAY SERVICES AND CHARACTERIZATION STUDIES PER WORK ORDER E02152
293-007112	9352130	RICHRDSON	GERTON		03/16/93		ENVIRONMENTAL ASSESSMENT - TANK 241-C-103 VAPOR PHASE CHARACTERIZATION
293-007175	60440-79-104	KASER	GUSTAVSON		02/21/79		NUCLEAR FUELS SERVICES, INC. WASTE AND TANK CHARACTERIZATION PLANNING TEAM
293-007176	RHO-122178	COCKE-RAM	ELGERT		12/21/78		PROPOSAL TO NUCLEAR REGULATORY COMMISSIONER FOR CHARACTERIZATION OF NUCLEAR FUEL SERVICE NFS WASTE TANKS, CONTRACT EY-77-C-06-1030
293-007186	14120	HAUGHNEY	WODRICH		12/12/79		CHARACTERIZATION OF NUCLEAR FUEL SERVICES, INC. NFS TANKS, WASTE, AND SOIL, OCTOBER 1979 MONTHLY REP
293-007188	13557	HARRIS			09/07/79		PHYSICAL CHARACTERISTICS OF WASTE TANK AND CONTENTS AT WEST VALLEY
293-007189	12545-R6	WODRICH	HAUGHNEY		08/08/79		CHARACTERIZATION OF NUCLEAR FUEL SERVICES, INC. TANKS, WASTE, AND SOIL
293-007190	LET-080779	PITT	SUTEY		08/07/79		SCHEDULE 169 FOR PHYSICAL CHARACTERISTICS OF WASTE TANKS AND CONTENTS-WEST VALLEY, NEW YORK CONTRACT EY-77-C-06-1030

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293-007191 13327	HAUGHNEY	WODRICH	07/26/79		CHARACTERIZATION OF NUCLEAR FUEL SERVICES, INC NFS TANKS, WASTE AND SOIL
293-007192 13332	HAUGHNEY	WODRICH	07/27/79		CHARACTERIZATION OF NUCLEAR FUEL SERVICES, INC NFS TANKS, WASTE AND SOIL
293-007194 13097	HAUGHNEY	WODRICH	06/12/79		CHARACTERIZATION OF NUCLEAR FUEL SERVICES, INC. NFS TANKS, WASTE, AND SOIL, APRIL 1979 MONTHLY REPORT
293-007195 REP-112778			11/27/78		STATEMENT OF WORK FOR PHYSICAL CHARACTERISTICS OF WASTE TANK AND CONTENTS AT WEST VALLEY
293-007197 LET-051179	WODRICH	HAUGHNEY	05/11/79		CHARACTERIZATION OF NUCLEAR FUEL SERVICES, INC. TANKS, WASTE, AND SOIL
293-007199 12927	HAUGHNEY	WODRICH	05/07/79		CHARACTERIZATION OF NUCLEAR FUEL SERVICES, INC. NFS TANKS, WASTE, AND SOIL, MARCH 1979 MONTHLY REPORT
293-007200 12854	HARRIS		04/27/79		PHYSICAL CHARACTERISTICS OF WASTE TANK AND CONTENTS AT WEST VALLEY
293-007202 LET-033079	WODRICH	HAUGHNEY	03/30/79		CHARACTERIZATION OF NUCLEAR FUEL SERVICES, INC. TANKS, WASTE, AND SOIL
293-007203 R79-0748	WODRICH	HAUGHNEY	03/25/79		INSPECTION OF TANKS AND CHARACTERIZATION OF SOIL AND RADIOACTIVE WASTES AT WEST VALLEY, NEW YORK
293-007204 12169-R1	HARRIS		02/21/79		PHYSICAL CHARACTERISTICS OF WASTE TANK AND CONTENTS AT WEST VALLEY
293-007205 60440-79-109	KASER	GUSTAVSON	02/27/79		NUCLEAR FUELS SERVICES, INC. WASTE AND TANK CHARACTERIZATION PLANNING TEAM
293-007225 60400-79-012	KOSIANCIC	DISTRIBUTION	03/02/79		TEAM FOR PLANNING PHASE OF NUCLEAR FUELS SERVICES, INC. WASTE AND TANK CHARACTERIZATION WORK
293-007226 60440-79-130	KASER	BROWN	03/15/79		MEETINGS ON PROPOSAL TO NUCLEAR REGULATORY COMMISSIONER TO CHARACTERIZE HIGH-LEVEL WASTE AND TANKS AT WEST VALLEY, NEW YORK
293-007227 RHO-030979	REEP	WODRICH	03/09/79		MEETINGS ON PROPOSAL FOR INSPECTION OF TANKS AND CHARACTERIZATION OF SOIL AND WASTE AT WEST VALLEY NEW YORK
293-007232 9205490B R8	RICHARDSON	CHRISTENSEN	03/05/93	8	TANK WASTE CHARACTERIZATION STRATEGIC PLAN
293-007234 9302231B	WAGONER	ANDERSON	03/02/93		AUTHORIZATION FOR CHARACTERIZATION OF RISER 12A IN TANK 241-SY-101
293-007279 65453-84-374	BRATZEL	TULBERG	12/31/84		CHARACTERIZATION OF TK 102-SY SUPERNATANT, R-3326

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293-007296	RHO-RE-SA-216 P	KIMURA		06/01/87	CHARACTERIZATION OF AIRBORNE RADIONUCLIDE PARTICULATES IN VENTILATED LIQUID WASTE TANKS
293-007362	9305207	MCKINLEY	SASAKI	06/14/93	CHARACTERIZATION ACTIVITY PROCEDURES
293-007378	9354378.1	PROSPON	GERTON	06/24/93	TANK WASTE CHARACTERIZATION PROGRAM PLAN
293-007385	9352130.1	FULTON	GERTON	06/23/93	ENVIRONMENTAL ASSESSMENT: TANK 241-C-103 ORGANIC VAPOR AND LIQUID CHARACTERIZATION AND SUPPORTING ACTIVITIES, HANFORD SITE, RICHLAND, WASHINGTON
293-007588	DOE/RW-0006 REV. 0	OAK RIDGE NATIO		11/01/89	INTEGRATED DATA BASE FOR 1989: SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 1 OF 4
293-007753	DOE/RW-0006 REV. 0	OAK RIDGE NATIO		11/01/89	INTEGRATED DATA BASE FOR 1989: SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 2 OF 4
293-007865	DOE/RW-0006 REV. 0	OAK RIDGE NATIO		11/01/89	INTEGRATED DATA BASE FOR 1989: SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 3 OF 4
293-007902	9353716	PROSPON	GERTON	04/30/93	COMPLETION OF MILESTONE #4356--COMPENDIUM OF HISTORICAL CHARACTERIZATION DATA
293-007903	9353658	PROSPON	GERTON	04/30/93	COMPLETION OF MILESTONE #4355 - DELIVERY OF TWO SINGLE-SHELL TANK CHARACTERIZATION REPORTS
293-007975	DOE/RW-0006 REV. 0	OAK RIDGE NATIO		11/01/89	INTEGRATED DATA BASE FOR 1989: SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 4 OF 4
293-008859	ECN-185863	DUCHSHERER		05/10/93	TECHNICAL PROJECT PLAN FOR THE 222-S LABORATORY IN SUPPORT OF THE GROUT TREATMENT FACILITY SAMPLING AND CHARACTERIZATION PLANS FOR TANKS 105-AP, 106-AP
293-009503	9205490B R3	RICHARDSON	GERTON	10/29/92	WASTE TANK CHARACTERIZATION STRATEGIC PLAN
293-010848	DOE/RW-0006 REV 7	OAK RIDGE NATIO DISTRIBUTION		10/01/91 7	INTEGRATED DATA BASE FOR 1991: U.S. SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 1 OF 4
293-010849	DOE/RW-0006 REV 7	OAK RIDGE NATIO DISTRIBUTION		10/01/91 7	INTEGRATED DATA BASE FOR 1991: U.S. SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 2 OF 4
293-010850	DOE/RW-0006 REV 7	OAK RIDGE NATIO DISTRIBUTION		10/01/91 7	INTEGRATED DATA BASE FOR 1991: U.S. SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 3 OF 4

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293-010851	DOE/RW-0006	REV 7	OAK RIDGE NATIO DISTRIBUTION	10/01/91	7	INTEGRATED DATA BASE FOR 1991: U.S. SPENT FUEL AND RADIOACTIVE WASTE INVENTORIES, PROJECTIONS, AND CHARACTERISTICS SECTION 4 OF 4
293-011473	65455-85-069	BULLOUGH	STEINER	061185		ESTIMATE FOR EVALUATING MIXER CHARACTERISTICS OF JET AGITATOR BRSTEM IN DCRT

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