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7. Abstract

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.

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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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Richland, Washington 99352

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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*).

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. 49-64 (*The Pressuremeter in Geotechnical Investigations*).

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. 65-86 (Walker, B. F., *Vane Shear Strength Testing*).

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

Heath, W.O., 1987, *Development of an In Situ Method to Define the Rheological Properties of Slurries and Sludges Stored in Underground Tanks*, PNL-6083/UC-70, Pacific Northwest Laboratory, Richland.

Javandel, I., 1989, *On the Field Determination of Effective Porosity*, LBL--27525, Earth Sciences Division, Lawrence Berkeley Laboratory, Berkeley, California.

Kreider, K.G., Tarlov, M.J., Huang, P.H., 1991, *Assessment of Uncertainties in Measurement of pH in Hostile Environments Characteristic of Nuclear Repositories*, NUREG/CR-5711, National Institute of Standards and Technology, U.S. Department of Commerce.

Nguyen, Q. H., 1994, *Tank Waste Physical Properties Prioritization Procedures 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 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 use 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.

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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 areas 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.

Search No 1 strategy:

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
s6 : rd

English only
Remove Duplication

Total 1011 Unique records

Search No 2 strategy:

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)

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 ²³⁹Pu in wastes by application of γ -ray measurement
- 64 | Magnetic susceptibility of sodium disilicate glasses containing PuO_2 TI <Augmentation> 4 to 300 O/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 $\text{SrSiO}_3(\text{g})$ and SrBo 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
- 108 | Research and engineering applications in rock masses. Volume 1
- 109 | Method for field determinations of the chemical and physical characteristics of radionuclides after release into the river water
- 110 | Radiation - risk - protection. Vol. 2
- 111 | Rock properties input to the site screening process
- 112 | Chemical aspects governing the choice of backfill materials for nuclear waste repositories
- 113 | Interpretation of hydraulic testing in the sediments of the Riniken borehole
- 114 | Interpretation of hydraulic testing in crystalline rock at the Leuggern borehole
- 115 | The effects of petroleum coke properties on carbon anode quality
- 116 | 242-A Evaporator/Crystallizer flowsheet
- 117 | Recommendations to the NRC for soil cover systems over uranium mill tailings and low-level radioactive wastes
- 118 | Hanford site Grout Treatment Facility.
- 119 | Tabulation and evaluation of ion exchange data on smectites, certain zeolites and basalt
- 120 | Thermal analysis of the WIPP in situ Room A1 DHLW package experiments
- 121 | Numerical thermal modeling of the WIPP in situ room A1 simulated DHLW experiments
- 122 | Waste management '87: Waste isolation in the US, technical programs, and public education TI <Series/Collective> Volume 2 - High-level waste
- 123 | A thermodynamic description of the evolution of pore water chemistry and uranium speciation during the degradation of cement
- 124 | Impacts to nuclear utilities of 10CFR61
- 125 | Waste isolation in the U.S., technical programs and public education. Vol. 2
- 126 | Effects of alpha, gamma, and alpha-recoil radiation on borosilicate glass containing Savannah River Plant defense high-level nuclear waste
- 127 | TI <Augmentation> Lead ions-250 keV^ xenon ions-160 keV
- 128 | Control of high-level radioactive waste-glass melters
- 129 | Control of high-level radioactive waste-glass melters. Part 4, Preliminary analysis of DWPF process laboratory capabilities
- 130 | The role of colloids in the transport of radionuclides in geological formations
- 131 | Critical parameters for a high-level waste repository: Volume 2, Tuff
- 132 | Critical parameters for a high-level waste repository: Volume 3, Salt
- 133 | Critical parameters for a high-level waste repository. Volume 1. Basalt
- 134 | Trials and control of placing and sealing materials for deposits in scale models
- 135 | Sealing of Radioactive Waste Repositories
- 136 | Effects of long-term exposure of tuffs to high-level nuclear waste-repository conditions. Preliminary report
- 137 | Inservice inspection of double-shell storage tanks at the Hanford Site
- 138 | Results of a multiple borehole pumping test in low permeability granite
- 139 | 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 Ci 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 reivew
- 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>
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- 874 | Physical, chemical and dewatering characteristics of Ba/RaSO₄/sub 4/ sludges from uranium milling
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- 17 | Report of liquid permeability measurements on rock core samples from
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- 18 | Geochemistry and petrology of surface samples, six boreholes and
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- 35 | Measurement of Low Permeabilities and of Pinpoint Hydraulic Load
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- 36 | Heat Transfer Investigations within Dry Spent Fuel Casks. Final Report
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- 38 | <English> STFLO; a finite-element code for steady-state flow in porous
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- 40 | STAFAN: a two-dimensional code for fluid flow and the interaction of
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- 41 | Review of Existing Instrumentation and Evaluation of Possibilities for
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- 42 | <English> MATLOC; a two-dimensional and axisymmetric nonlinear
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- 52 | <English> Statistical analysis of granite pore size distribution data,
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- 61 | Method of and apparatus for the treatment of radioactive waste water from nuclear power plants
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- 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
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- 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
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- 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)
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- 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
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- 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
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- 95 | Interpretation of the WIPP-13 multipad pumping test of the Culebra Dolomite at the Waste Isolation Pilot Plant (WIPP) site
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- 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 National soils conference: abstracts
- 104 | Scoping experimental analysis of factors affecting cask contamination weeping. Extended abstract
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- 108 | Fire protection measures in a repository for radioactive wastes
- 109 | <English> Radiation dose deposition and colloid formation in a rock salt waste repository
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- 113 | Test methods for selection of materials of construction for high-level radioactive waste vitrification. Revision
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- 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 (^{222}Rn) 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> Diagraphies gravimétriques, instruments actuels, possibilités 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 hydrogéologie en zone non saturée hétérogène

- 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 Epoxide 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'experiences in situ en laboratoires souterrains pour l'evacuation des dechets 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 traveltime 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 Traveltime 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 Ensaygues 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 intercalary 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. 2 Fluid flow in crystalline crust; detecting
fractures by temperature logs TI <French Translation> Volume 2 de
l'IUGG. L'ecoulement des fluides dans la croûte 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 underground rock laboratory TI <French Translation> Etude de l'endommagement de la roche du 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-H/sub 2/O 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 theorique 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 ThO 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-1 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 th 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
respository 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'experiences in situ en laboratoires souterrains pour l'evacuation
des dechets 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, waehrend 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 Salzlaugen. 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 déchets 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 Durchlaufsaulen-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 Verformungszustände
für Hohlräume 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 methods 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 stability 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 hôte 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 barrieres 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_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-O and Tc-O 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 II 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-O: 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/sub 0.67/Y/sub 0.25/Kr/sub 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[sub 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 TiO[sub 2] 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/m sup 2 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 on 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 UO/sub 2/ 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
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- 658 | Coupled fluid flow and creep analysis for room saturation of a salt
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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

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Final report (5. report))
- 685 | Geotechnisches Verhalten verschiedener Salzgesteine. Teilprojekt 3.
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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
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- 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,
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- 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
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- 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
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- 700 | Method for immobilizing radioactive noble gases in zeolites
- 701 | Thermal Response Studies. 1984 Subseabed Disposal Project annual
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- 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 modelisation 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
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- 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
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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
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- 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
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- 760 | Possible relation between sonic velocity measured at the edge of a
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- 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 preliminaire de
l'alteration dans un tuf soude par tomographie geophysique
- 764 | Electromagnetic experiment to map in situ water in heated welded tuff:
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- 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
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- 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
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- 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
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- 780 | Theoretical derivation of limiting solubilities of long-lived
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- 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:
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- 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
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- 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
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disposal. Proceedings TI La conception et l'instrumentation
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- 789 | Measured release kinetics of iodine and cesium from UO 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 det Thermisch Induzierten Wasserfreisetzung aus
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Temperaturversuch 5 im Salzbergwerk Asse (Investigation of the
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- 794 | HAW-Simulationsversuch mit Kobalt-60-Quellen im Salzbergwerk Asse.
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- 795 | HAW Simulation Experiments with Cobalt-60 Radiation Sources in the
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- 796 | Nuclear Waste Repository Simulation Experiments. Asse Salt Mine TI
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- 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)
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(Plutonium - 50 years) (held at Bombay during February 4-7, 1991):
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- 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 soutènement 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
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- 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 k₀ 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
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- 842 | Pilot research projects for underground disposal of radioactive waste
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- 843 | HIP devoluming 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
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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
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- 849 | Investigations of radionuclide migration through intact rock cores
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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
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- 894 | Release of Fission Products from WWER-440 Reactors under DBA
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- 895 | A method of determining weight percent solids in SRAT/SME slurries as
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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 Temperaturfernmessung 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, Zeek 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 /sup 204/Tl 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 /sup 238/Pu-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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Tue Nov 02 07:03:52 1993

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*****
*****                                VENDOR RESULTS LIST REPORT                                *****
*****                                -----                                *****
*****  Based on the following search criteria:                                *****
*****  Product Terms: abrasive                                              *****
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*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
*AMPCO-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
*CENRO-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
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- *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
- *RUEMLIN 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/DELAVAL 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

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*****          VENDOR RESULTS LIST REPORT          *****
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***** Based on the following search criteria:          *****
***** Product Terms: moisture          *****
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*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
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- *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
- *SYMPLASTICS 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

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*****          VENDOR RESULTS LIST REPORT          *****
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***** Based on the following search criteria:          *****
***** Product Terms: rheology          *****
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*BRABENDER (C W) INSTRUMENTS INC
*METTLER-TOLEDO INC
*MORTON INTERNATIONAL INC/SPECIALTY CHEMICALS GROUP
*RHEOMETRICS INC

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*****          VENDOR RESULTS LIST REPORT          *****
*****          -----          *****
***** Based on the following search criteria:          *****
***** Product Terms: shear rate          *****
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*ALLIEDSIGNAL INC/ALLIEDSIGNAL AEROSPACE CO/GUIDANCE SYSTEMS DIV/BENDIX
CHESHIRE OPNS

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*****          VENDOR RESULTS LIST REPORT          *****
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***** Based on the following search criteria:          *****
***** Product Terms: shear strength          *****
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*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV

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*****          VENDOR RESULTS LIST REPORT          *****
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***** Based on the following search criteria:          *****
***** Product Terms: shear wave          *****
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*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

- *PUBLICER 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
- *ECOTROL 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
- *KOBEL 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
*ARCO 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

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*****          VENDOR RESULTS LIST REPORT          *****
*****          -----          *****
***** Based on the following search criteria:          *****
***** Product Terms: viscoelastic          *****
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*NAMETRE CO

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*****
*****          VENDOR RESULTS LIST REPORT          *****
*****          -----          *****
***** Based on the following search criteria:          *****
***** Product Terms: viscosity          *****
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*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
- *NAME TRE 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 Master Directory. Mar-Apr 1994 Issue.
Tue Nov 02 07:03:52 1993

***** 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/DELANE 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
*MOFT 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

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*****
*****      .  VENDOR RESULTS LIST REPORT      *****
*****      -----      *****
***** Based on the following search criteria: *****
***** Product Terms: shear wave *****
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*BISON INSTRUMENTS INC

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*****
*****      VENDOR RESULTS LIST REPORT      *****
*****      -----      *****
***** Based on the following search criteria: *****
***** Product Terms: stress *****
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*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

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*****
*****      VENDOR RESULTS LIST REPORT      *****
*****      -----      *****
***** Based on the following search criteria: *****
***** Product Terms: strength *****
*****
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*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

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*****
*****      VENDOR RESULTS LIST REPORT      *****
*****      -----      *****
***** Based on the following search criteria: *****
***** Product Terms: viscoelastic *****
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*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

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*****
*****      VENDOR RESULTS LIST REPORT      *****
*****      -----      *****
***** Based on the following search criteria: *****
***** Product Terms: cement drill *****
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*E L E INTERNATIONAL INC/SOILTEST PRODUCTS DIV
*HILTI INC
*HUMBOLDT MANUFACTURING CO

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*****
*****      VENDOR RESULTS LIST REPORT      *****
*****      -----      *****
***** Based on the following search criteria: *****
***** Product Terms: concrete drill *****
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*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/BERYLLIUM/MINING 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
*HARNISCHFEGGER INDUSTRIES INC/HARNISCHFEGGER 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 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/TEXTOL 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)/TEXTTOOL 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-OJ, 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, QA 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.

Techonology 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-VISCO
 TY & FLOWRATE VERSUS PRESSURE
 DROP CALCULATIONS
- * SD-WM-TI-222 VISCOSITY STUDY - PREDICTION O
 F ELECTROLYTIC SOLUTIONS & SLU
 RRIES
- * SD-WM-TI-247 VALIDATION OF VISCOSITY CORREL
 ATION FOR SLURRIES
- * SD-WM-WP-242 TANK SY-101 IN SITU VISCOMETER
 INSTRUMENT ENGINEERING WORK P
 LAN
- * SD-WM-CSRS-017 SOFTWARE REQUIREMENTS SPECIFIC
 ATION FOR TANK 101-SY VISCOMET
 ER
- * SD-WM-ATP-079 SOFTWARE ACCEPTANCE TEST PROCE
 DURE FOR TANK 101-SY VISCOMETE
 R
- * SD-WM-DA-151 VISCOMETER ELECTRICAL CODES AN
 D COMPLIANCE

Keyword: CORROSION

- * HWS-10249 PROC SPEC FOR ULTRASONIC CORRO
 SION INSPCTN SYSTM
- * HWS-05643 SPEC FOR VERTICAL TURBINE PUMP
 S FOR NON-CORROSIVE SVC
- * HWS-08846 SPEC FOR SUBMERSIBLE TYPE PUMP
 S FOR NON-CORROSIVE SERVICE
- * HS-BP-0046 SUBMERSIBLE VERTICAL TURBINE P
 UMP FOR NON-CORROSIVE SERVICE
- * SD-CP-ES-058 TECHNOLOGY SURVEY OF SMALL COR
 ROSION RESISTANT PUMPS FOR IN-
 HOOD SERVICE
- * SD-CP-TC-008 PFP CORROSION EVALUATION PLAN
- * SD-WM-PAP-025 HANFORD WASTE TANK CORROSION S
 TUDY 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 SPEC
 IFICATIONS
- * SD-WM-TI-166 HIGH TEMPERATURE CORROSION TES
 TS ON DOUBLE-SHELL SLURRY & FU
 TURE PUREX MIXTURES-TWELVE MON
 TH EVALUATION

WHC-SD-TD-RPT-011
Revision 0

* 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 SHIELDING CALCULATIONS AT THE HANFORD WASTE VITRIFICATION PLANT
- * 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-TI-534 VELOCITY DENSITY TEMPERATURE TREE 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 RELATIONS HIP 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 CALCIUM 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
* SD-WM-OCD-002	BASES FOR WESF STRONTIUM FURNACE FIRING TEMPERATURE
* SD-WM-OTP-018	OPERABILITY TEST PROCEDURE FOR TEMPERATURE SCANNING EQUIPMENT FOR 241-AY & 241-AZ TANK FARMS
* SD-WM-OTR-018	OPERABILITY TEST REPORT FOR TEMPERATURE SCANNING EQUIPMENT IN 241-AY & 241-AZ TANK FARM
* SD-WM-TI-055	TEMPERATURE INCREASE CAUSED BY SOLIDS SETTLING INTO CORNERS OF BOILING WASTE TANKS
* SD-WM-TI-166	HIGH TEMPERATURE CORROSION TESTS ON DOUBLE-SHELL SLURRY & FUTURE PUREX MIXTURES-TWELVE MONTH EVALUATION
* SD-WM-DA-024	MAXIMUM TEMPERATURE OF CESIUM CANISTER SIPPING SYSTEM AT IRRADIATION FACILITY
* SD-WM-DR-003	PROCESS WASTE TRANSFER LINES FROM TANK 241-AZ-101 TO 244-AR VAULT TEMPERATURE ANALYSIS
* SD-714-TI-002	SCOPING ANALYSIS FOR REDUCING GROUT DISPOSAL SYSTEM TEMPERATURES
* SD-CP-ATP-007	MT 5 TEMPERATURE CONTROL SYSTEM PHASE I
* SD-CP-ATR-006	MT-5 TEMPERATURE CONTROL SYSTEM - PHASE I TEST REPORT
* SD-WM-TA-019	SLUDGE IN AGING WASTE TANK AND MAXIMUM OBSERVED TEMPERATURE
* SD-WM-TA-022	DOUBLE SHELL TANK OPERATING TEMPERATURE
* SD-CP-ATP-027	HC-60, TEMPERATURE CONTROL SYSTEM
* SD-WM-TI-459	EVALUATION OF AMBIENT TEMPERATURE EFFECTS ON TANK 101-SY GAS MIXING -TASK RECORD-
* SD-WM-TC-016	TEST PROCEDURE FOR DOCUMENTING HIGHEST TEMPERATURE PRODUCED BY 101-SY DRILLING & CUTTING OPERATIONS
* SD-WM-ER-104	101-SY DRILLING AND CUTTING OPERATION TEMPERATURES
* SD-WM-WP-102	WORKPLAN, TEMPORARY GAS MONITORING SYSTEM, TEMPERATURE AND RELATIVE HUMIDITY INSTRUMENTATION, TANK SY-101
* SD-WM-RD-013	FUNCTIONAL REQUIREMENTS FOR FERROCYNIDE TANK TEMPERATURE MONITORING

* SD-WM-WP-075	NITORING ENGINEERING WORK PLAN FOR FERR OCYANIDE TANK TEMPERATURE MONI TORING
* 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 TORING 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	EMPERATURE PROFILE GRAPH SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST CASE TC015 S INGLE SHELL TANK MAXIMUM TEMPE RATURE GRAPH
* SD-WM-DP-022	101-SY MIXING PUMP TEMPERATURE AND PRESSURE LOOP CALIBRATION
* SD-WM-OTP-133	VELOCITY DENSITY TEMPERATURE T REE -VDTT- OPERATIONAL TEST PR OCEDURE
* SD-WM-SDD-005	VELOCITY DENSITY TEMPERATURE T REE VDTT SYSTEM DESIGN DESCRIP TION
* SD-WM-OTR-133	VELOCITY DENSITY TEMPERATURE T REE VDTT OPERATIONAL TEST REPO RT
* SD-WM-DA-113	STRUCTURAL ANALYSIS OF TANK 24 1-SY-101 VELOCITY-DENSITY-TEMP ERATURE TREE
* SD-WM-TRP-087	SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST CASE TC021 T EMPERATURE PROFILE REPORT REQU EST FORM AND OUTPUT
* SD-WM-TI-534	VELOCITY DENSITY TEMPERATURE T REE VDTT INSTRUMENT TECHNICAL INFORMATION
* SD-WM-TRP-104	SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST CASE TC036 Z OOM FORMS FOR THE BASE TEMPERA TURE SYSTEM
* SD-WM-TRP-088	SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST CASE TC022 F ARM TEMPERATURE DATA INPUT FOR M
* SD-WM-WP-201	WORK PLAN TO VACUUM DRY AND CA LIBRATE SY-101 VELOCITY DENSIT Y TEMPERATURE TREES VDTTS
* SD-WM-TRP-116	SURVEILLANCE ANALYSIS COMPUTER SYSTEM SACS TEST CASE TC039, TMACS TEMPERATURE DATE INTERFA CE
* SD-WM-CSUD-005	SACS TEMPERATURE USER MANUAL
* SD-WM-TI-557	PRELIMINARY FLOWSHEET FOR LOW TEMPERATURE HYDROTHERMAL DESTR UCTION OF ORGANICS IN HANFORD TANK WASTES
* SD-WM-WP-220	WORK PLAN FOR TEMPORARY INSTAL LATION OF TEMPERATURE DATA ACQ UISITION SYSTEM FOR USE DURING TANK 241-AZ-101
* SD-NR-EII-006	KE BASIN TEMPERATURE MONITOR E QUIPMENT 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 ENT
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
UELS 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 NPR 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

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- * 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 No	Document Title
	D193013234 9204755			070192		RETURN WITHOUT APPROVAL OF CHANGE REQUESTS TWR-N-031-92 OPERATING AND MAINTENANCE TWR-N-032-92 WASTE TANK SAFETY TWR-N-033-92 TANK FARM UPGRADES AND T
	D193013255 92054908			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 DSI-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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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-HANDLED 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 O	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 O-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 GENERATION
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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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 RECURRENCE
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		BOWTION		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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WTS #	Document Number	Author Name	Addressee Name	Doc Date	Rev No	Document Title
						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 #
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

Appendix L-10

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WTS # Document Number	Author Name	Addressee Name	Doc Date	Rev No	Document Title
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
292001637 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	UEISS	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 TX1,1 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	CATOTHERS	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 DSI-090487	CAROTHERS	DIST	09/04/87		TANK C103 CHARACTERIZATION ACTION PLAN
293-000073 DSI-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	PROPSON	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-T1-215	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-T1-213			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 RADIOLOGICAL 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	SUTLEY	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	PROPSON	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	PROPSON	GERTON	04/30/93		COMPLETION OF MILESTONE #4356--COMPENDIUM OF HISTORICAL CHARACTERIZATION DATA
293-007903 9353658	PROPSON	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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