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Abstracts Directly Searchable on EDB

On April 5, 1982, a most welcome enhancement was announced via an online message: EDB abstract words are now searchable, using the prefix AB=. Formerly, abstracts were only searchable indirectly through the LOOK command. LOOK can still be used to find phrases in abstracts or titles, once the presence of the desired words has been ascertained, as follows:

```
S AB=LOW;S AB=HEAD
S TL=LOW;S TL=HEAD
C 1 AND 2 OR 3 AND 4
LOOK 5/A,T/' LOW HEAD '+' LOW-HEAD '
```

Truncation may be used on abstract words, using $ after the stem desired, e.g. S AB=EUPHORB$. As always, searchers should be careful not to truncate short stems so as to avoid false drops.

DOE/RECON users will find the AB= index a most useful feature for searches requiring very specific words or new jargon not covered by index terms. Of course, the indexing vocabulary remains the single most important means of subject access.

— Jo Robinson, LBL

CONTENTS

SYSTEM CHANGES

LOOK Command Changes

A temporary restriction in use of the stacked YES commands has been removed. Users can now stack responses to the LOOK command just as with any other command. The LOOK command has also been changed to ignore the following seven punctuation marks: . , ; : ( ) ?.

Stack Command Restrictions Lifted

RECON has also removed the limit on the number of stacked commands that can be entered. While an input line cannot exceed *60* characters, it can include as many stacked commands as the user can fit into that line. However, stacking of commands must not exceed the maximum time limit allowed between input command lines. When a user is in the <PROCESSING> state longer than *22 minutes,* he is automatically disconnected (except during an EXEC command where the limit is *one hour*). If a user is not in the <PROCESSING> state he is only allowed *11 minutes* between commands before being disconnected. A restart is possible after this type of disconnection. After the disconnection, any further input will result in being logged off RECON. A restart is necessary to continue.

Stacking of long commands such as the LOOK command must be done with care so as not to exceed this limit. As a rule of thumb, each LOOK of 200 citations takes approximately one minute.

— Barbara Corey,
DOE/RECON Staff, ORNL

NSC File Changes Scope

Entries and abstracts for the NSC file on DOE/RECON are created by the Nuclear Safety Information Center (NSIC). Before this fiscal year (FY 1982), NSIC was funded by the Office of Nuclear Regulatory Research (RES) of the Nuclear Regulatory Commission (NRC). Under RES, the NSIC provided broad coverage (in terms of indexing and abstracting) of information on nuclear power plant safety, including operating experience and performance and ongoing research and development programs on safety and operations. This breadth was reflected in the 23 different subject categories NSIC used for indexing.

At the beginning of FY 1982, the NRC Office for Analysis and Evaluation of Operational Data (AEOD) took over funding of the program. The main responsibility of this office is to provide independent analysis of plant operating experience to NRC units handling licensing, standards, and inspections; in doing so, it oversees the collection and handling of operations data. This emphasis on operations is now being reflected at NSIC in the types of information being added to the NSC file. NSIC is now primarily reviewing and abstracting documents that contain: (1) operating experience information (event-specific and safety-related), (2) generic information on operational safety, and (3) analytical or research-oriented information on operational safety.

The primary source of such information is "docket" material (the correspondence between utilities and the NRC). Licensee event reports (LERs) represent a significant fraction of the docket documents containing operating experience information that are added to the NSC file.

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To obtain copies or for address changes or deletions, contact the editor.

Recently (as of December 31, 1981), AEOD consolidated its data collection activities by discontinuing maintenance of the NRC licensee event reports file on the computer at the National Institutes of Health in Bethesda, Maryland. The NSC file is now the only active file containing LERs that is being supported by NRC.

NSIC's Category 17, "Operational Safety and Experience," now becomes the primary category of the 23 NSIC categories. NSIC is actively reviewing and abstracting information relative to operating experience in this and several other categories, as follows:

17. Operational Safety and Experience
Covers operating experience at all types of nuclear facilities. Reportable incidents during facility operation are found in Category 17. Includes the following: Personnel exposures, periodic operating reports, reportable events, routine and abnormal releases from a facility, design modifications, backfit items, licensing correspondence for a facility with an operating license, fuel handling and storage in a reactor facility, inservice inspection.

1. General Safety Considerations
Covers the safety aspects of radiation policy, codes and standards, economics and cost studies, socio/philosophical considerations, forecasts, public policy, public attitudes, radiation in perspective, safety principles and philosophy, insurance and liability, legalistics, benefit versus risk, probability of accidents, plant availability, concepts of reliability, nuclear emergencies, concepts of quality assurance, etc.

5. Heat Transfer and Thermal Hydraulics
Deals with all aspects of heat transfer and fluid flow with emphasis on postulated reactor accidents, including: Burnout and critical heat flux, fission product decay heat, blowdown, hydrodynamic effects, thermal-mechanical effects, flow blockage, thermal-hydraulic modeling, two-phase flow, thermophysical properties of fuels and coolants, etc. Also includes equipment involved in these processes.

6. Reactor Transients, Kinetics, and Stability
Includes studies (analytical and experimental) in which the transient behavior of reactors and criticality accidents are examined. Deals, for example, with reactivity effects due to voids, temperature, Doppler coefficient, etc; calculational methods, mathematical models, computer codes, and physical data that may have a direct bearing on reactor dynamic behavior; and design studies concerned with nuclear stability and the understanding of potential kinetics safety problems.

9. Nuclear Instrumentation, Controls, and Safety Systems
Includes the design, fabrication, and application of components, modules, equipment, and all portions of monitoring, control, and safety systems for nuclear processes. Encompasses all devices and techniques used for surveillance and to measure, monitor, indicate, record, alarm, control, and regulate physical variables. Also covers the performance requirements for I&C hardware and systems; the related standards, specifications, codes, and guides; and the concepts of reliability, availability, maintenance, and testing in relation to I&C systems and components.

10. Electrical Power Systems
Covers all aspects of the generation, distribution, and transmission of electrical power associated with a nuclear facility. Deals with routine and emergency means of supplying electrical power

(Continued on page 7)

NEW DATA BASE

FRP Data Base Becomes No. 43

Federal Research in Progress (FRP) has been installed as DOE/RECON's 43rd data base. It contains information on federally-sponsored energy research projects other than those sponsored by the Department of Energy. The file was compiled by the Smithsonian Scientific Information Exchange (SSIE), and it will not be updated.

FRP catalogues research performed around the world, including projects in Soviet-bloc countries. The citations detail research in fiscal years 1979-1981. The starting dates range from 1937 to 1983. Completion years are slated for as late as 1999, although most projects list 1979-1982 as completion years.

There were 8,742 citations in the initial loading of this data base. The first 1,411 citations pertain specifically to coal research projects, and the remainder are classified generically as energy projects.

The accompanying table lists FRP data elements and their print/display formats.

For further information on the FRP data base, contact Dora Moneyhun, Technical Information Center, Oak Ridge, Tennessee, (615) 576-1303 or FTS 626-1303.

— Ross J. Toedte,
DOE/RECON Staff, ORNL

Table 1. Federal Research in Progress (FRP) Unit Record

Data Element	Search-able Field	Printable Fields in Formats 0	2	3	4	5	6	7	Search by	Example
Contract Number	X	X	X			X		X	CN	CN=DAOA787
Starting Date	X	X	X			X		X	DA	DA=77
Fiscal Year	X	X	X			X		X	FY	FY=80
Completion Date	X	X	X			X		X	CD	CD=81
Performing Organization	X	X	X	X		X		X	PO	PO=GEOLOGICAL
PO Address		X	X	X		X		X		
PO Location	X	X	X	X		X		X	PL	PL=ANCHORAGE
PO State	X	X	X	X		X		X	PS	PS=ALASKA
PO Zip	X	X	X	X		X		X	PZ	PZ=99501
PO Country	X	X	X	X		X		X	PC	PC=UNITED STATES OF AMERICA
Principle Investigator	X	X	X	X		X	X	X	PI	PI=SCULLY, D.R.
PI Title		X	X	X		X	X	X		
PI Address		X	X	X		X	X	X		
Associated Investigator	X	X	X	X		X	X	X	AI	AI=SMITH, J.R.
Project Monitor	X	X	X	X		X			PM	PM=JONES, J.L.
Supporting Organization	X	X	X	X		X		X	SO	SO=INTERIOR
SO Address		X	X	X		X		X		
SO Location	X	X	X	X		X		X	SL	SL=ANCHORAGE
SO State	X	X	X	X		X		X	SS	SS=ALASKA
SO Zip	X	X	X	X		X		X	SZ	SZ=99501
SO Country	X	X	X	X		X		X	SC	SC=UNITED STATES OF AMERICA
Descriptors	X	X	X			X			IT	IT=HYDRAULICS
Title	X	X	X	X	X	X	X	X	TI	TI=HYDROLOGIC
Summary	X	X			X	X		X	LOOK	LOOK1/A/'MAMMAL'
Progress	X	X			X	X		X	LOOK	LOOK1/A/'MUTAGEN'
Bibliography		X								
Funds	X	X	X			X		X	FU	FU=00014030

How to Use the EDB Permutated Thesaurus

The new *Energy Data Base: Subject Thesaurus Permutated Listing,* DOE/TIC-7000-R5 (APP.), October 1981, was published this February as an aid in searching EDB.

The permutated thesaurus is constructed alphabetically by significant word in single and multiword entries. To find the term you are looking for, e.g., "INDOOR AIR POLLUTION," look under any word in the phrase (INDOOR, AIR, or POLLUTION). In the POLLUTION section of the thesaurus, words to the right of the word POLLUTION are alphabetized first and words to the left are alphabetized next. The following example illustrates the way this kind of alphabetizing works:

Air	Pollution
Indoor Air	Pollution
Land	Pollution
Noise	Pollution
	Pollution
Thermal	Pollution
Transfrontier	Pollution
Water	Pollution
Air	Pollution Abatement
Land	Pollution Abatement
Noise	Pollution Abatement
	Pollution Abatement
Water	Pollution Abatement
Oil	Pollution Containment
Air	Pollution Control
Land	Pollution Control
Noise	Pollution Control
	Pollution Control
Water	Pollution Control
	Pollution Control Agencies
	Pollution Control Equipment
	Pollution Law
	Pollution Laws
Air	Pollution Monitors
Water	Pollution Monitors
	Pollution Regulations
	Pollution Sources

Descriptors with the same word or phrase are alphabetized by their first word. For example, the descriptor POLLUTION is sorted after NOISE POLLUTION and before THERMAL POLLUTION. Likewise, the descriptor POLLUTION CONTROL is sorted after NOISE POLLUTION CONTROL and before WATER POLLUTION CONTROL. Alphabetizing is done around the significant word or phrase.

Unhyphenated terms precede hyphenated terms having the same first word. Example:

Fuel Wires
Fuel-Air Ratio
Fuel-Cladding Interactions

Terms containing Arabic numerals are sorted before the same term containing other words. Example:

Zinc
. . . . . .
Zinc 64
Zinc 64 Target
Zinc 65
. . . . . .
Zinc Additions

Note that ZINC 64 TARGET is sorted immediately after ZINC 64 and before ZINC ADDITIONS.

The main thesaurus, *EDB Subject Thesaurus* (DOE/TIC-7000-R5), sorts entries containing numerals in a slightly different way:

Zinc
. . . . . .
Zinc 64
Zinc 65
. . . . . .
Zinc Additions
. . . . . .
Zinc 64 Target
. . . . . .
Zinc Tellurides

Here, although all ZINC isotopes are sorted after the element ZINC, ZINC 64 TARGET is sorted as if the numerals did not exist, i.e., after ZINC ADDITIONS and before ZINC TELLURIDES.

Abbreviations and acronyms are sorted letter by letter, upper case before lower case. For example:

McGill Synchrocyclotron
Brookhaven 200- MeV Linac
. . . . . .
Mean Free Path

Another example:

CWIP
Cabibbo Angle

All terms in lower case and terms containing lower-case articles, conjunctions, prepositions, etc., have been filed at the end of the entire alphabetical listing.

By first checking your term in the new permutated thesaurus you can determine the correct entry in the *EDB Subject Thesaurus, Revision 5.* It is advisable, after that, to look up the descriptor in the main thesaurus because it will give you the broader, narrower, and related terms, as well as the entry date, definition, and "see" references when available. In consulting the main thesaurus, remember that the descriptors are listed alphabetically on a "word by word" basis. The term you found in the permutated thesaurus may be in a slightly different place in the main thesaurus.

— Rita LaBrie, LBL

DOE/RECON User Group Reviewed

The DOE/RECON User Group, whose members represent various categories of RECON users, provides feedback to the DOE/RECON administration and staff about priorities for change as perceived by users. Since its inception in 1978, the User Group has made numerous recommendations to improve the system and its data bases. A tally of the 77 original recommendations made by the User Group reveals that no less than 30 have been implemented, 5 are in progress, and 10 or more have been obviated by changing circumstances and have been dropped. At least 15 recommendations made since then have been implemented, while another 10 are in process.

At its meetings, the User Group discusses specifics about the system and its progress and directions, and validates, adds, or deletes recommendations, according to the Group's priority ratings. Management and budget considerations, of course, dictate that user priorities cannot always be followed. Nevertheless, the existence of a mechanism for providing feedback ensures that the RECON management (TIC) — search system (ORNL-RECON) — user loop is marked by good communication.

Each member of the User Group represents a segment of the user community. The roster of the User Group is as follows:

DOE:

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The most recent meeting of the User Group was on March 25-26 at Allentown, Pennsylvania, hosted by member Valerie Tucci of Air Products & Chemicals Inc. A report on this meeting will appear in a forthcoming issue of *Energinfo.*

At the upcoming User Meeting on May 24-26 at Oak Ridge, Tennessee, there will be a report/feedback session of the User Group. DOE/RECON users are invited to call or write any User Group member with suggestions or questions about DOE/RECON matters for discussion at this meeting. They can also come to the meeting to bring their suggestions and feedback.

TIC Issues Bibliographies On Energy

As program needs and focuses dictate, the Technical Information Center compiles and publishes bibliographies of all EDB entries on a particular topic. All bibliographies are published in response to requests from program offices, and some are updated regularly, e.g., *Liquid Metal Fast Breeder Reactors, Radioactive Waste Processing and Disposal, Nuclear Medicine,* and *Oil Shales.* The bibliographies contain personal author, corporate author, subject, contract number, and report number indexes. Those currently available from the National Technical Information Service are listed below. Price codes are explained on page 7.

Appropriate Technology: A Bibliography. March 1981. 191 refs. DOE/TIC-3385. Price Code A04.

Carbon Dioxide and Climate: A Bibliography. Sept. 1981. 667 refs. covering July 1, 1976 through June 15, 1981. DOE/TIC-3382-R1. Price Code A08.

Coal Processing: Gasification, Liquefaction, Desulfurization. A Bibliography. 1930-1974. Oct. 1974. 7441 refs. TID-3349. Price Code A99.

Coal Processing, Production, and Properties: A Bibliography. Sept. 1976. 6757 refs. TID-3349-S1P1, Citations and bibliographic citations with author, title, and source. Price Code A21. TID-3349-S1P2, Indexes. Price Code A24.

Coal Production Expansion: A Selected Bibliography. July 1980. 138 refs. DOE/TIC-3381. Price Code A04.

Computer Codes: A Bibliography. May 1981. 3916 refs. DOE/TIC-3386. Price Code A99.

Controlled Fusion and Plasma Research. A Literature Search. June 1977. 4723 refs. covering July 1976 through June 1977. TID-3557-S12. Price Code A99.

Cooling Towers: A Bibliography. Feb. 1980. 426 refs. covering Jan 1979 through Dec. 1979. DOE/TIC-3360(Suppl. 4). Price Code A06.

Cooling Towers: A Bibliography. Feb. 1981. 300 refs. DOE/TIC-3360(Suppl. 5). Price Code A05.

Electric Batteries: A Bibliography. April 1978. 5422 refs. TID-3361. Price Code A99.

Energy Accounting and Management: A Bibliography. January 1979. TID-3375. 536 refs. Price Code A06.

Energy: Social and Economic Aspects. A Bibliography. July 1980. 3832 refs. DOE/TIC-3383. Price Code A99.

Environmental Studies at the Savannah River Plant and Immediate Environs: A Bibliography. July 1975. 702 refs. TID-3353. Price Code A05.

Federal Energy-Related Environment and Safety Research for FY 1979. Dec. 1980. DOE/EV-0057/2. Vol 1. Executive Summary. Price Code A04. Vol. 2. Project Listings and Indexes. 3506 citations. Price Code A99.

Fuel Cells: A Bibliography. June 1977. 3273 refs. covering mid-1960s through 1976. TID-3359. Price Code A18.

Fuel Cells: A Bibliography. July 1980. 1067 refs. covering 1977 through June 1980. DOE/TIC-3359(Suppl. 1). Price Code A11.

Gas Cooled Reactor Technology: A Bibliography. May 1978. 1768 refs. covering July 1976 through Dec. 1977. TID-3339-S2. Price Code A17.

Geothermal Resources: Exploration and Exploitation. July 1976. 5476 refs. TID-3354-R1. Price Code A99.

Hydrogen Fuels: A Bibliography. Feb. 1976. 4544 refs. covering 1930 through Jan. 1976. TID-3358. Price Code A21.

Hydrogen Fuels: A Bibliography. Feb. 1981. 3298 refs. DOE/TIC-3358(Suppl. 1). Price Code A99.

Liquid Metal Fast Breeder Reactors. May 1978. 2334 refs. covering Jan 1977 through Dec. 1977. TID-3333-S5. Price Code A22.

Liquid Metal Fast Breeder Reactors: A Bibliography. Nov 1980. 5465 refs. covering Jan. 1978 through Aug. 1980. DOE/TIC-3333(suppl. 6) Vols. 1 and 2. Price Code A99.

Low-Level Radiation: Biological Interactions, Risks, and Benefits. A Bibliography. Sept. 1978. 3294 refs. covering July 1976 through Sept. 1978. TID-3373. Price Code A99.

Low-Level Radioactive Waste: A Bibliography. Dec. 1981. 215 refs. DOE/TIC-3387. Price Code A04.

Magnetohydrodynamics: Power Generation and Theory. A Bibliography. Nov. 1975. 8539 refs. covering 1957 through Oct. 1975. TID-3356. Price Code A99.

Nuclear Medicine, Bibliography on. Dec. 1976. 4362 refs. covering Jan. 1975 through June 1976. TID-3319-S7. Price Code A22.

Nuclear Medicine: A Bibliography. September 1978. TID-3319-S8-P1. 4421 refs. Price Code A99. TID-3319-S8-P2. 1787 refs. plus indexes. Price Code A99.

Nuclear Quality Assurance: A Bibliography. Sept. 1978. 375 refs. covering Jan. 1976 through June 1978. TID-3374. Price Code A06.

Nuclear Raw Materials: A Selected Bibliography. Jan. 1976. 273 refs. TID-3357. Price Code A03.

Occupational Health Aspects of Uranium: A Selected Bibliography. 1977. 716 refs. covering 1948 through 1976. TID-3352. Price Code A07.

Oil Shales: Selected Bibliography of DOE Sponsored Research. Jan. 1980. 436 refs. DOE/TIC-3378. Price Code A07.

Oil Shales and Tar Sands: A Bibliography. Dec. 1977. 5049 refs. TID-3367. Price Code A99.

Oil Shales and Tar Sands: A Bibliography. April 1981. 5142 refs. DOE/TIC-3367(Suppl. 1). Price Code A99.

Radioactive Waste Processing and Disposal. Jan. 1980. 4144 refs. covering June 1976 through Aug. 1978. NUREG-0643 (TID-3311-S8). Price Code A99.

Radioactive Waste Processing and Disposal. Jan. 1980. 3598 refs. covering Sept. 1978 through Nov. 1979. NUREG-0644 (TID-3311-S-9). Price Code A99.

Radioactive Waste Processing and Disposal. April 1981. 3700 refs. covering Nov. 1979 through Dec. 1980. NUREG-0645 (TID-3311-S10). Price Code A99.

Reactor Safety: A Bibliography. Nov. 1980. 3082 refs. covering June 1977 through June 1980. DOE/TIC-3525(Rev. 5)(Suppl. 12). Price Code A99.

Sodium Technology. August 1977. 1129 refs. covering Jan. 1975 through June 1976. TID-3334-S3. Price Code A10.

Solar Energy: A Bibliography. Mar. 1976. 9732 refs. TID-3351-R1P1, Citations. Price Code A25. TID-3351-R1P2. Indexes, Price Code A17.

Transplutonium Elements: A Bibliography. Jan. 1977. 727 refs. covering Nov. 1975 through June 1976. TID-3317-S7. Price Code A07.

Wood and Energy: A Bibliography. 1980. 941 citations. DOE/TIC-3380. Price Code A10.

NTIS Price Codes Explained

New prices for publications ordered from the National Technical Information Service (NTIS) became effective January 1. Most publications available from NTIS no longer have a dollar price printed on the document, but rather carry a price code (e.g., A07). These codes are listed on the accompanying chart.

Code	Price	Page Range
A01	$ 4.00	Microfiche
A02	6.00	001-025
A03	7.50	026-050
A04	9.00	051-075
A05	10.50	076-100
A06	12.00	101-125
A07	13.50	126-150
A08	15.00	151-175
A09	16.50	176-200
A10	18.00	201-225
A11	19.50	226-250
A12	21.00	251-275
A13	22.50	276-300
A14	24.00	301-325
A15	25.50	326-350
A16	27.00	351-375
A17	28.50	376-400
A18	30.00	401-425
A19	31.50	426-450
A20	33.00	451-475
A21	34.50	476-500
A22	36.00	501-525
A23	37.50	526-550
A24	39.00	551-575
A25	40.50	576-600
A99	Contact NTIS for a price quote.	

For documents over 600 pages, add $1.50 for each additional 25-page increment.

When ordering, be sure to double-check prices to ensure prompt delivery. A price printed on the publication may be out of date, and, if you send that amount, your order will be delayed while NTIS contacts you about the new price.

TIC Publications Win STC Awards

Six publications of the Technical Information Center won awards in the 1982 publications competition of the East Tennessee chapter of the Society for Technical Communications (STC).

In the Journals Category, the Technical Progress Review *Nuclear Safety* won an award of excellence. Three books won awards: *The Canine as a Biomedical Research Model* (DOE/TIC-10191), award of excellence; *Fluid Film Lubrication,* published in cooperation with John Wiley & Sons, Inc., award of merit; and *Pulmonary Toxicology of Respirable Particles* (CONF-791002), award of merit. In the Bulletins and Brochures category, *Energy-Efficient Regeneration of Granular Activated Carbon* (DOE/TIC-11124) won an award of excellence, and *How to Obtain Research and Development Reports* (DOE/TIC-4601) won an award of merit.

First- and second-place winners at the local level are sent to the international competition, which this year will be held in Boston in May.

The competition is open to medical, engineering and technically oriented publications. Publications are judged on overall merit — writing, editing, graphics, design, layout, and production quality.

(NSC FILE, continued from page 2)

to and within nuclear facilities of all kinds. Considers the reliability, availability, economics, and stability of the electrical power system and the related effects on the safety and operation of the nuclear facility.

23. Risk, Reliability, and Probabilistics
Covers documents that may be useful in performing reliability, cost-benefit, probabilistic and/or risk analysis on all or portions of the nuclear fuel cycle. In addition, includes selected information on the comparisons between nuclear and other energy technologies.

Other NSIC categories are added to documents as necessary, but NSIC is no longer actively searching the literature for documents in these other subject areas to abstract and add to the file.

In summary, the new emphasis is on all aspects of operational experience as it relates to the safe operation of nuclear power plants. The net result will not be fewer documents added to the NSC file; rather, the change in scope will be reflected only in the new material selected for the file. For further information, please contact:

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or
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Calendar of Events

1982

May 24-26	DOE/RECON User Meeting Technical Information Center, Oak Ridge, TN	July 13-14	Basic DOE/RECON Training (for newer users). Los Alamos National Laboratory, Los Alamos, NM
July 12	Basic DOE/RECON Training: Introductory Module on Using Terminals (optional afternoon session for novice users) Los Alamos National Laboratory, Los Alamos, NM	July 15-16	System-Independent EDB and Advanced DOE/RECON Training (for experienced DOE/RECON searchers). Los Alamos National Laboratory, Los Alamos, NM (July 15, System-Independent EDB, is also open to experienced searchers on commercial systems).

Please send training reservations to DOE/RECON Training Coordinator, Lawrence Berkeley Laboratory, Bldg. 50, Room 130, Berkeley, CA 94720, telephone: (415) 486-6307 or FTS 451-6307.

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FIRST CLASS