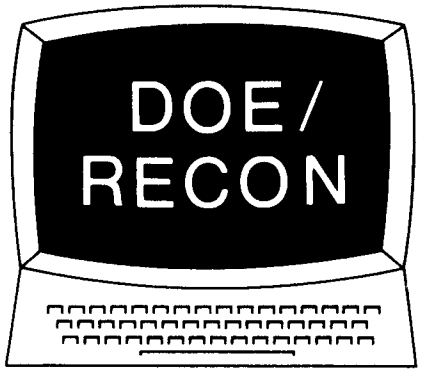


RECON TRAINING MATERIALS

INFORMATION RESEARCH GROUP, LIBRARY DEPT.
LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA, BERKELEY, CA 94720
for
DOE/TECHNICAL INFORMATION CENTER

This report was done with support from the Department of Energy. Any conclusions or opinions expressed in this report represent solely those of the author(s) and not necessarily those of The Regents of the University of California, the Lawrence Berkeley Laboratory or the Department of Energy.

Reference to a company or product name does not imply approval or recommendation of the product by the University of California or the U.S. Department of Energy to the exclusion of others that may be suitable.

PUB-231 Rev 7 3/82-99

TABLE OF CONTENTS

This work was supported by the U.S. Department of Energy under Contract No. DE-AC03-76SF00098.

```
Enter ?+ for next page.          * ?+
ENTER:?+
>PROCESSING<
   Full list of available files PAGE 2
```

DISCLAIMER

TERMINAL COMMANDS

COMMANDS SUMMARY

RECON commands are used within the RECON system to locate, process, and/or output data. These commands are common to all data bases on the system.

RECON commands are English words or symbols. Historically, the symbols appeared on the shift keys of the numerals in sequential order. Owing to variations in keyboards on different terminals, the command keys may no longer be in sequence.

The English commands which act on text (SELECT, EXPAND, HELP) must be followed by a space:

ENTER: E SOLAR CELLS

However, the Symbol commands must not be followed by a space:

ENTER: #SOLAR CELLS

Since the English commands are much simpler to use, examples will feature them.

The alphabetical text of commands may be entered in upper case, lower case, or both; RECON translates letters to upper case for search purposes.

The following is a brief description of the RECON commands:

COMMAND	FUNCTION	EXAMPLE(S)
BEGIN B !	BEGINs search process. Initiates identification page or puts user directly into file requested.	BEGIN B 1
EXPAND E "	Shows a portion of the index the user requested in alphabetical order. To directly display thesaurus related terms enter "(term) or E (term). For more information, use ?EXP.	EXPAND ALLOYS E THERMAL EXPANSION E AU=SMITH, K. E (THERMAL EXPANSION)
SELECT S #	SELECTs terms directly or indirectly by using reference numbers. For more information, use ?SEL.	SELECT ALLOYS S WATER QUALITY S E6;S R2
COMBINE C $	COMBINEs sets in Boolean logic by using the operators + (OR), *(AND), and -(NOT). The sequence of operations in a COMBINE expression is: / () - * +, and then left to right. For more information, use ?COM.	COMBINE 1AND2 C1-4/OR C 1 AND 2

DISPLAY D %	DISPLAYs search results online. For DISPLAYing citations in a set, use Dset number/format. For single items, use %volume.accession number. For more information, use ?DIS; use ?FOR for discussion of formats. Once DISPLAY of a set has begun, use % to advance, %- to back up.	DISPLAY 8 D80.1242 D 5/2
PAGE P MORE M 0 (zero)	Turns page. 0- backs page up (except when DISPLAYing on-line)	PAGE P M
LIMIT LM L)	LIMITs a set to citations of specified volume range, document type, and/or citation number range. For more information, use ?LIM	LIMIT 5/78-80 L 2/ALL/J L 4//R,X,U
LOOK LK LO	Searches within an established set for words or phrases occurring in title and/or abstract. For more information, use ?LOO	LOOK4/A,T/'BROWN' LK5/A/'BROWN HAIR' +'BLUE EYES'
KEEP K (	Transfers items to set 99 for later use. For more information, use ?KEE	KEEP5/3-6 K8/10 K78.2345
HISTORY SET DS @	Displays list of sets that have been created within the present session. On Telenet enter @b (b=blank)	SET DS
PRINT PR &	Causes search results to be PRINTed offline and mailed to user. Same formats as DISPLAY	PRINT 7/0/1-203 PR12/2
DELETE/ DE/ DL/	DELETEs a request for print(s) requested earlier in the search session.	DELETE/6 DE/6
END EN =	ENDs a search session and erases all sets. User is still connected to RECON.	END EN =
=STOP	ENDs search session and erases all sets. User is disconnected from RECON but must hang up phone to disconnect from ORNL computer	=STOP
HELP H ?	Initiates online help package. For more information on HELP commands, use ?. For more information on a specific command, use ? with the name of the command.	HELP H COM ?COMBINE

Only the first characters of the English language commands need to be keyed in, but the full command or portions of it are also acceptable; e.g., B, BE, BEG, BEGI, BEGIN will all initiate the BEGIN command.

In the cases where several commands begin with the same letter, the first entry in the above list will be the one executed by the single letter command. To execute the other commands, a string large enough to uniquely identify the desired command must be specified; such commands have been listed above with a two letter code. For example, both EXPAND and END start with the letter "E." If the user inputs only "E," EXPAND will be the command executed. To have the END command executed, the user must input at least "EN."

Terminal Commands

HELP
H
?

- USEFUL EXPLANATIONS
- NO "TALKING DOWN"
- TUTORIAL STARTS WITH HELP OR ?, CONTINUES

HELP FIL	HELP FILES	SHOWS FILES AVAILABLE TO YOU
?COV	?COVERAGE	SHOWS PRESENT UPDATED COVERAGE OF ALL FILES
H FED	H FILENAME	DESCRIBES FILE CONTENTS (SAME AS PROVIDED BY BEGIN COMMAND)
?WHI	?WHICH	SHOWS WHICH FILE YOU ARE IN

BEGIN
B
!

- BEGINS NEW SESSION
- CLEARS SET HISTORY
- STARTS SET NUMBERING AT SET 1
- PROMPTS FOR PRINTOUT ADDRESS
- GIVES MENU OF FILE NUMBERS

PRINTOUT ADDRESS IS FOR INDENTIFICATION ONLY

PRINTOUT WILL BE SENT TO PASSWORD ADDRESS

DIAL-UP USERS:

. SEND ONE LINE AT A TIME

. PRESS RETURN KEY TO SEND

. AFTER LAST LINE, TYPE ONE BLANK
AT BEGINNING OF LINE

. PRESS RETURN KEY TO SEND

AFTER FILE NUMBERS HAVE BEEN SHOWN, CHOOSE FILE

ENTER : 1

TO CHOOSE ENERGY DATA BASE

PRINTOUT ADDRESS LABEL FROM RECON

```
TERMINAL LBL
  SESSION 0027,  FILE EDB            12-15-80
**************************************************
*                                                *
*                                                *
*   JO ROBINSON FOR TRAINING                     *
*   EFFECTS OF THERMAL POLLUTION ON FISH         *
*   EDB THRU 8022                                *
*   DEC 16 1980                                  *
*                                                *
*                                                *
*                                                *
*                                                *
*                                                *
*                                                *
*                                                *
**************************************************
```

```
BEGIN1          (SHORT FORM)
B1
!1
```

- BEGINS NEW SESSION
- SKIPS ADDRESS PAGE
  (PRINTOUT WILL BE UNLABELED)
- PUTS YOU DIRECTLY INTO FILE 1 (EDB)
- SHOWS FILE VERIFICATION PAGE

FILE VERIFICATION PAGE GIVES:

- TIME SPAN OF FILE (VOLUME & ISSUE)
- SIZE OF FILE
- SOURCE OF FILE
- SEARCHABLE FIELDS

DIAL-UP USERS:

- PRESS BREAK KEY TO STOP OUTPUT ON TERMINAL
- PRESS BREAK KEY NEAR TOP OF DISPLAY

EXAMPLE OF FILE VERIFICATION PAGE: FEDEX FILE

```
ENTER:begin 7
>PROCESSING<
BEGIN SESSION 0025--FILE 07 WAS SELECTED
?FED  FEDEX (FEDERAL ENERGY DATA INDEX)
   (2,930 RELOADED 10/27/80)
THIS INFORMATION WAS SUPPLIED BY DOE/EIA
 TEXT SEARCH ON TITLE AND ABSTRACT

INDEXES INCLUDE:
 TL= TITLE WORDS
 NC= SUBJ. CATEGORIES
 DA= DATA AGGREGATE
 SD= MANUALLY ASSIGNED DESCRIPTORS
 IT= ALL DESCRIPTORS
 MD= DESCRIPTOR PAIRS
 DS= DATA SOURCE
 RN= REPORT NUMBER
 DD= DATA DATE
 PD= PARENT DOCUMENT
 LI= INFORMATION LEVEL
INFORMATION LEVEL CODES:
LI=D (DOCUMENT)   LI=G (GRAPH)
LI=T (TABLE)      LI=B (TABLE AND GRAPH)
```

ERROR CORRECTION

CONTROL H

- USE TO CORRECT INDIVIDUAL CHARACTER ERRORS
- HOLD DOWN CONTROL KEY,
  PRESS H FOR EACH CHARACTER TO BE DELETED
- OR USE BACKSPACE KEY AVAILABLE ON SOME TERMINALS
- OR MOVE CURSOR, IF ON A CRT

CONTROL X

- USE TO DELETE AN INCORRECT STRING OF CHARACTERS BEFORE THEY ARE SENT
- HOLD DOWN CONTROL KEY,
  PRESS X
  - ALL CHARACTERS ON THAT LINE ARE DELETED
  - CORRECT STRING MAY THEN BE ENTERED AND SENT

USING THE RECON COMMANDS TO BUILD A SEARCH

TOPIC: EFFECTS OF THERMAL EFFLUENTS ON

FISHES AND OTHER SEAFOOD

EXPAND
E
"

```
ENTER:e thermal effluents
>PROCESSING<
  EXPAND  IT=THERMAL EFFLUENTS
   REF  DESCRIPTOR                CIT   RT
   E01  IT=THERMAL
         DEGRADATION_____         526    2
   E02  IT=THERMAL
         DIFFUSION_____           454    5
   E03  IT=THERMAL
         DIFFUSIVITY_____         339    4
   E04  IT=THERMAL EFFECTS_               1
   E05  IT=THERMAL
         EFFICIENCY_____         2222    2
  -E06  IT=THERMAL
         EFFLUENTS_____          1651    8
   E07  IT=THERMAL ENERGY
         STORAGE EQUIPMENT_      1983   12
   E08  IT=THERMAL ENVELOPE
         HOUSES_____                    1
   E09  IT=THERMAL
         EQUILIBRIUM_____         302    2
   E10  IT=THERMAL
         EXPANSION_____          1492   10
   E11  IT=THERMAL FATIGUE_       190    1
                                  -MORE-
```

SHOWS A PORTION OF THE INDEX, USUALLY 5 ENTRIES

BEFORE YOUR TERM AND SEVERAL AFTER IT

SELECT
S
#

INDIRECT SELECT

USES TWO COMMANDS

FIRST EXPAND,

THEN SELECT BY NUMBER

(GOOD FOR NON-TYPISTS)

```
ENTER:s e6
>PROCESSING<
   1    1651 IT=THERMAL EFFLUENTS
```

EXPAND
E
"

EXPANDING AN E-NUMBER THAT SHOWS RELATED

TERMS PRODUCES A DISPLAY OF THESAURUS

RELATED TERMS

```
ENTER:e e6
>PROCESSING<
REL. KEYS E6    IT=THERMAL EFFLUENTS
T R.NO. DESCRIPTOR                CIT   RT
  R0000 IT=THERMAL
        EFFLUENTS_________       1651    8
3 R0001 IT=COLD EFFLUENTS__        10    1
3 R0002 IT=HEAT SINKS_____        224    6
3 R0003 IT=TEMPERATURE
        EFFECTS___________       4042   10
3 R0004 IT=THERMAL
        POLLUTION_________       1488    7
3 R0005 IT=WASTE HEAT_____       2653    9
6 R0006 IT=EFFLUENTS
        (THERMAL)_________              1
6 R0007 IT=HEATED EFFLUENTS             1
7 R0008 IT=HEAT DISSIPATION             4
```

SELECT
S
#

INDIRECT SELECT (2 STEPS)

```
ENTER:s r3:r4
>PROCESSING<
   2   4042 IT=TEMPERATURE EFFECTS
   3   1488 IT=THERMAL POLLUTION
```

SELECTING R3:R4 PROVIDES INDIVIDUAL SETS, WHEREAS

S R3-R4 WOULD PROVIDE ONE SET WITH AN IMPLIED 'OR'

EXPAND (term)
e (term)
" (term)

DIRECT EXPAND (1 STEP)

YOU CAN GO DIRECTLY TO THE THESAURUS RELATED

TERMS BY ENCLOSING YOUR TERM IN PARENTHESES

```
ENTER:e (fishes)
>PROCESSING<
REL. KEYS IT=FISHES
T R.NO. DESCRIPTOR                CIT   RT
  R0000 IT=FISHES_____________    3103   19
1 R0001 IT=AQUATIC
          ORGANISMS_____________  6189   17
1 R0002 IT=VERTEBRATES_____     27676    7
2 R0003 IT=CODFISH_____________   21     1
2 R0004 IT=EEL_________________   31     1
2 R0005 IT=GOLDFISH____________   30     2
2 R0006 IT=PLAICE______________   12     3
2 R0007 IT=SALMON______________  126     1
2 R0008 IT=STRIPED BASS____       33     1
2 R0009 IT=TROUT_______________  273     2
2 R0010 IT=TUNA________________   21     1
3 R0011 IT=AQUACULTURE_____      381     6
3 R0012 IT=FISH PASSAGE
          FACILITIES____________   9     8
3 R0013 IT=FISH PRODUCTS___      230     3
3 R0014 IT=FISH SCALES_____        4     1
3 R0015 IT=FOOD________________ 5280    43
3 R0016 IT=GILLS_______________   98     2
3 R0017 IT=ICHTHYOPLANKTON_       27     4
                                  -MORE-
```

PAGE
P
MORE
M
0 (ZERO)

PAGE 0

· SHOWS NEXT PAGE OF A DISPLAY THAT INDICATES

-MORE- IN LOWER RIGHT CONER

PAGE- 0-

· SHOWS PREVIOUS PAGE (WITHIN AN EXPAND DISPLAY

```
ENTER:page
>PROCESSING<
REL. KEYS IT=FISHES
T R.NO. DESCRIPTOR                CIT   RT
3 R0018 IT=SEAFOOD_____           199   10
6 R0019 IT=MISGURNUS_____                1
```

SELECT
S
#

TO SELECT SEVERAL NONCONSECUTIVE

R-NUMBERS INTO ONE SET, USE COMMA

```
ENTER:s r0,r18
>PROCESSING<
   4    3211 R0,R18
```

NOTE: SET IS NOT LABELED TO SPECIFY

WHICH TERMS WERE SELECTED

TERMS MAY ALSO BE SELECTED DIRECTLY

```
ENTER:s lobsters;s oysters;s shrimp
>PROCESSING<
   5      37 IT=LOBSTERS
   6     129 IT=OYSTERS
   7     151 IT=SHRIMP
```

CAUTION: FOR EACH WORK SESSION

- UP TO 5 COMMANDS MAY BE "STACKED" IN ONE LINE; SEPARATE COMMANDS WITH A "," SEMI-COLON
- UP TO 60 CHARACTERS MAY BE SENT WITH EACH CARRIAGE RETURN (CR)
- UP TO 98 SETS MAY BE CREATED

  AT THE 98th SET RECON WILL RESPOND:

  SET LIMIT 98, REACHED--GIVE PRINT AND END

SELECT WITH TRUNCATION $

S

#

TO SEARCH ON A WORD STEM, APPEND THE DOLLAR SIGN "$" TO THE STEM AND THEN SELECT:

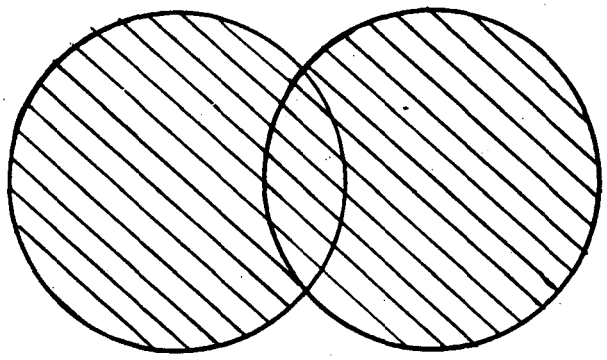
S TL=OYSTER$;S TL=PRAWN$

S TL=FISH;S TL=FISHES

NOTE, HOWEVER, THAT THE WORD FISHES WAS NOT TRUNCATED. IF IT HAD BEEN, FISHING, FISHERY, FISHERIES, ETC. WOULD HAVE BEEN PICKED UP.

CARE MUST BE USED WHEN TRUNCATING SHORT WORDS!

COMBINE
C
$



1 OR 2

COMBINE 1 OR 2

BROADENS CONCEPT

ENTER: C 1 OR 2
$1+2

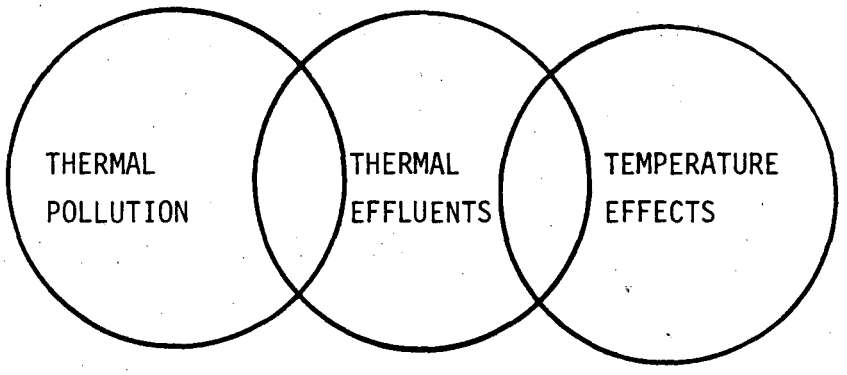
+ means "OR"

COMBINE
C
$

FORMS SET 12 BY ORING SETS 1,2,3

C 1 OR 2 OR 3

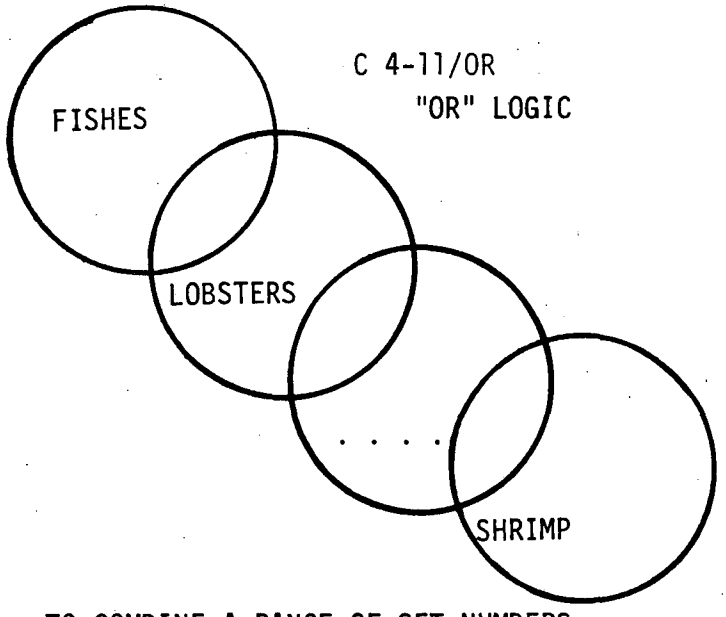
"OR" LOGIC



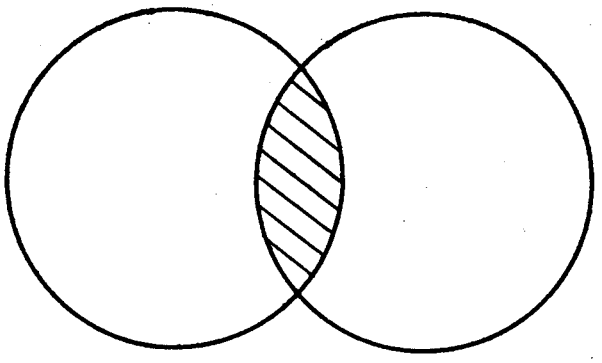
"OR" LOGIC BROADENS
"OR" IS FOR ALTERNATIVES

```
COMBINE
C
$
```

FORMS SET 13 BY ORING SETS 4 THROUGH 11



TO COMBINE A RANGE OF SET NUMBERS
  USE A SLASH WITH THE BOOLEAN OPERATOR:
  COMBINE 4-11/OR
DO NOT FORGET THE SLASH:
  C 4-11 MEANS COMBINE 4 NOT 11



1 AND 2

COMBINE 1 AND 2

NARROWS CONCEPT

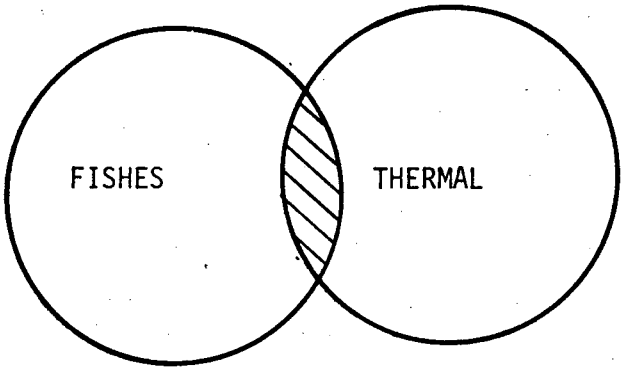
ENTER: C 1 AND 2
$1*2

* means "AND"

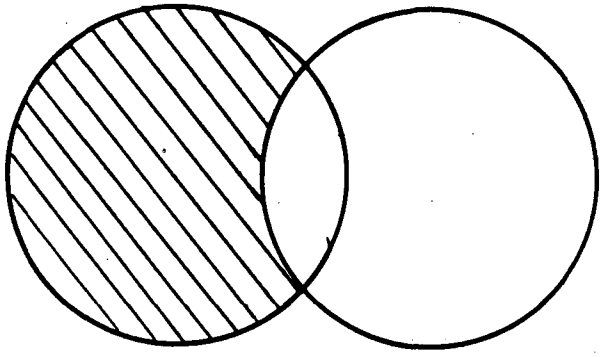
COMBINE
C
$

FORMS SET 14 BY ANDING SETS 12 AND 13

14 C 12 AND 13 "AND" LOGIC



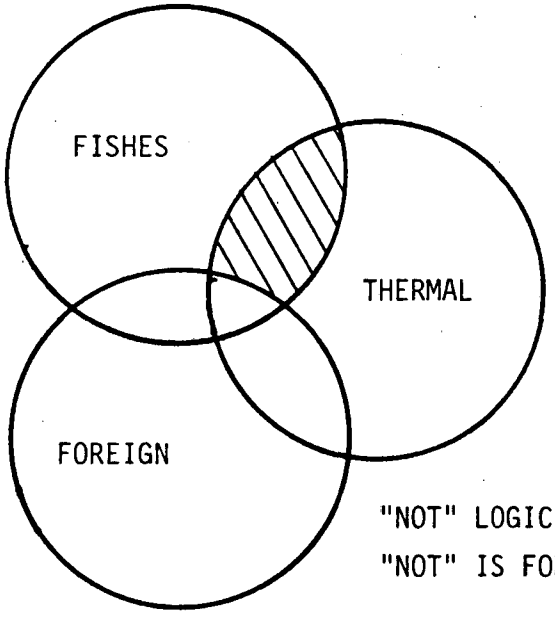
"AND" LOGIC NARROWS
"AND" IS FOR CO-OCCURRANCE



1 NOT 2

COMBINE 1 NOT 2
TAKES AWAY CONCEPT
ENTER: C 1 NOT 2
$1-2
- means "NOT"

```
COMBINE
C
$
   FORMS SET 16 BY  SUBTRACTING SET 15
   15   S LA=FOREIGN
   16   C 14 NOT 15
```



"NOT" LOGIC NARROWS
"NOT" IS FOR EXCLUSION

```
DISPLAY
D
%

D SET NUMBER/FORMAT/RANGE

FORMATS:

    FORMAT  0  FULL RECORD, INCLUDING HOUSEKEEPING INFORMATION
               AND COMPUTER-GENERATED BROADER TERMS
    FORMAT  1  ACCESSION NUMBER ONLY
    FORMAT  2  BIBLIOGRAPHIC CITATION PLUS INDEXING (DEFAULT)
    FORMAT  3  BRIEF BIBLIOGRAPHIC CITATION
    FORMAT  4  ACCESSION NUMBER, TITLE AND ABSTRACT
    FORMAT  5  FULL RECORD (CITATION, ABSTRACT, INDEXING)
    FORMAT  6  ACCESSION NUMBER, TITLE AND REPORT NUMBER
    FORMAT  7  BIBLIOGRAPHIC CITATION AND ABSTRACT
               (END USER'S FORMAT)
```

```
DISPLAY
D
%

  DISPLAY11   DEFAULT FORMAT 2, FIRST CITATION IN SET 11
  %11//1-10   FORMAT 2, CITATIONS 1 THROUGH 10
  D11/6       FORMAT 6(TITLES), ABOUT 5 CITATIONS WILL BE
              SHOWN
  D11/3/1-15  FORMAT 3(SHORT), CITATION 1 THROUGH 15
  %11/5       FORMAT 5(LONG), FIRST CITATION
  D11/5/1-45  FORMAT 5(LONG), CITATIONS 1 THROUGH 20
    0         PAGE TURN, CITATION 21 THROUGH 40 OF SET 11
    0         PAGE TURN, CITATION 41 THROUGH 45 OF SET 11
```

DISPLAY
D
%

SPECIAL USES

D VOLUME DOCUMENT TYPE CITATION NUMBER/FORMAT

D 77.83582/0 DIRECT DISPLAY, TO SHOW FULL CITATION (FOR AN ITEM SEEN IN AN INCOMPLETE FORMAT SUCH AS 3) LEADING ZEROES NOT REQUIRED

D 77J83582/0 DIRECT DISPLAY

DISPLAY
D
%

SPECIAL DISPLAY FUNCTIONS FOR CRT USERS

%-	DISPLAYS PREVIOUS CITATION (NOT POSSIBLE IN FORMATS 3 OR 4)
DISPLAY E	SHOWS LAST EXPAND DISPLAY (A FAST METHOD)
D FA	SHOWS FIRST ABSTRACT IN CURRENT SET
%FP	SHOWS FIRST PAGE OF CURRENT MULTI-PAGE CITATION

```
COMBINE
C
$
        THE SEQUENCE OF OPERATIONS IN A COMBINE
 EXPRESSION IS:

      / ( )  NOT  AND  OR
 AND THEN FROM LEFT TO RIGHT
```

```
SET HISTORY
HISTORY
SET
DS (DISPLAY SETS)
@  (FOR TELENET, USE @b)

   DISPLAYS LIST OF ALL SETS CREATED

      1   IT=THERMAL
           EFFLUENTS_________      1651
      2   IT=TEMPERATURE
           EFFECTS___________      4042
      3   IT=THERMAL
           POLLUTION_________      1488
      4   R0,R18____________      3211
REL.  T   IT=FISHES
      5   IT=LOBSTERS_______        37
      6   IT=OYSTERS________       129
      7   IT=SHRIMP_________       151
      8   TL=OYSTER$________       167
      9   TL=PRAWN$_________        10
     10   TL=FISH___________       706
     11   TL=FISHES_________       131
     12   10R20R3___________      6150
     13   4-11/OR___________      3577
     14   12AND13___________       724
     15   LA=FOREIGN________    175516
     16   14NOT15___________       689
```

LOOK
LK
LO

WHAT THE LOOK COMMAND DOES:

- SEARCHES INSIDE AN EXISTING SET
- SEARCHES UNINDEXED FIELDS, USUALLY TITLE AND ABSTRACT
- PROVIDES FULL BOOLEAN LOGIC (*(AND) +(OR) -(NOT)) -- USE SYMBOLS ONLY --
- ALLOWS SEARCHING BY ORDER
- SEARCHES 200 DOCUMENTS AT A TIME
- CREATES A SET OF THE "HITS"

HOW THE LOOK COMMAND WORKS:

LK 5/A,T/'string1' [+'string2']

- SEARCHES TEXT FOR SPECIFIED STRING(S)
- THE SEARCH IS, IN EFFECT, AN UNLIMITED AND UNQUALIFIED TRUNCATION (LOOKS FOR ANY OCCURRENCE OF THE STRING)

WHEN TO USE THE LOOK COMMAND:

- WHEN THE SEARCH REQUEST IS MORE SPECIFIC THAN THE INDEXING LANGUAGE
- WHEN A TERM HAS RECENTLY BEEN ADDED TO THE THESAURUS AND EARLIER INSTANCES OF THE CONCEPT ARE DESIRED
- WHEN A TITLE PHRASE IS SOUGHT, BUT ANDING TITLE WORDS IS NOT ADEQUATE: ORDER IS IMPORTANT

LOOK
LK
LO

HOW TO USE THE LOOK COMMAND:

- DETERMINE THE CONTEXT:
  - CREATE THE SMALLEST FEASIBLE SET THAT SHOULD CONTAIN YOUR CONCEPT
  - AIM FOR SETS OF A FEW HUNDRED RATHER THAN A FEW THOUSAND
- RETRIEVE WHAT YOU CAN DIRECTLY, E.G.
  - SELECT THE NEW INDEX TERM
- PERFORM THE LOOK COMMAND

LOOK
LK
LO

EXAMPLE OF THE LOOK COMMAND
(SEARCH TOPIC MORE SPECIFIC THAN INDEXING)
PROBLEM: FIND ARTICLES ON USE OF ATRIUMS IN PASSIVE SOLAR HEATING AND COOLING SYSTEMS

CREATE SET ON WHICH LOOK COMMAND WILL OPERATE

SELECT PASSIVE SOLAR HEATING SYSTEMS
SELECT PASSIVE SOLAR COOLING SYSTEMS

1 972 PASSIVE SOLAR HEATING SYSTEMS
2 216 PASSIVE SOLAR COOLING SYSTEMS
3 1000 1 OR 2

LOOK
LK
LO

PERFORM THE LOOK COMMAND

```
ENTER:look 3/a,t/ 'atrium'+'atria'
>PROCESSING<
LOOK:   200 RCDS SRCHD,      2 HITS--CONT?
?LO9    TEXT SEARCH COMMAND INSTRUCTIONS

     YOU MAY EITHER STOP OR CONTINUE THE
LINEAR SEARCH.  IF YOU CONTINUE, 50 MORE
DOCUMENTS WILL BE SEARCHED FOR THE TEXT
YOU HAVE SPECIFIED.  IF YOU STOP, A SET
CONSISTING OF THE DOCUMENTS ALREADY SEL-
ECTED WILL BE CREATED AND ADDED TO YOUR
SET HISTORY.
     YOU MAY ENTER ANY RECON COMMAND AT
THIS POINT, BUT ANYTHING EXCEPT YES WILL
TERMINATE THE TEXT SEARCH.

ENTER: YES    TO CONTINUE THE SEARCH.

ENTER: NO     TO TERMINATE THE SEARCH.



ENTER:yes;yes;yes
>PROCESSING<
LOOK:   400 RCDS SRCHD,      5 HITS--CONT?
LOOK:   600 RCDS SRCHD,      6 HITS--CONT?
LOOK:   800 RCDS SRCHD,      7 HITS--CONT?
ENTER:0 ZEROS ALSO WORK FOR THE LOOK COMMAND
>PROCESSING<
   4      10 3/A,T/'ATRIUM'+'ATRIA'
```

ENTER:d4/5/1

DIS 4/5/000001-000001//1 PAGE 1
<ACCESSION NO.> 80X0100822
<TITLE (MONO)> Solar atrium: a hybrid solar heating and cooling system. Technical progress report No. 10, 19 December 1979-19 March 1980
<EDITOR OR COMP> Ueland, M.
<CORPORATE AUTH> Ueland and Junker, Architects and Planners, Philadelphia, PA (USA)
<PAGE NO> 7
<AVAILABILITY> NTIS, PC A02/MF A01.
<CONTRACT NO> Contract FG02-77CS34135
<DATE> 19 Jun 1980
<CATEGORIES> EDB-140901
<PRIMARY CAT> EDB-140901
<REPORT NO> DOE/EG/34135--10
<ABSTRACT> A program of applied research has been developed for the design, construction and monitoring of an innovative concept of solar heating and cooling called solar atrium. The solar atrium concept is adaptable to residences and smaller commercial and institutional buildings. It is designed to be constructed of

-MORE-

DIS 4/5/000001-000001//1 PAGE 2
materials and equipment that are economical and readily available. Cost-effectiveness of installation and operation is a primary design objective. The solar atrium is a further development of efforts begun in the 1930's and 1940's to design houses that would obtain a major portion of their heating from the sun. The early solar house experiments proved the benefits of large glazed areas for trapping solar energy. However, they were not equipped to collect and store surplus solar energy, nor were they equipped to control heat losses through glass areas at night or during cloudy days. The solar atrium incorporates the large glass areas of the earlier houses and adds facilities for heat storage and control of heat losses through glass. Progress and plans are outlined.
<DESCRIPTORS> BUILDINGS: T1;DIRECT GAIN SYSTEMS; HEAT GAIN;HEAT STORAGE;HYBRID SYSTEMS;PASSIVE SOLAR COOLING SYSTEMS: T3,Q1;PASSIVE SOLAR HEATING SYSTEMS: T2,Q1;RESEARCH PROGRAMS: Q2,Q3

LOOK
LK
LO

EXAMPLE OF THE LOOK COMMAND. (NEW INDEX TERM HAS BEEN ADDED: EARLIER MATERIAL DESIRED. THE PEARL-GROWING TECHNIQUE OF GETTING TERMS FROM CITATIONS RETRIEVED IS USED.)

PROBLEM: FIND ARTICLES ON AWAY FROM REACTOR STORAGE, SOMETIMES CALLED AFR. TERM NOT FOUND IN EDB THESAURUS, TID-7000 REV 3

```
ENTER:s tl=afr                    RETRIEVE WHAT YOU CAN
>PROCESSING<                          DIRECTLY
   1      18 TL=AFR
ENTER:dl
>PROCESSING<
DIS  1/2/000001-000018//1          PAGE  1
<ACCESSION NO.> 80C0109588
<TITLE (MONO)> Licensing of away-from-reactor (AFR)
  installations
<EDITOR OR COMP> Gray, P.L.
<CORPORATE AUTH> Du Pont de Nemours (E.I.) and Co.,
  Aiken, SC (USA). Savannah River Lab.
<SEC REPT NO> CONF-800943--9
<PAGE NO> 18
<AVAILABILITY> NTIS, PC A02/MF A01.
<CONTRACT NO> Contract AC09-76SR00001
<CONF TITLE> National topical meeting of fuel
  cycles for the 80's
<CONF PLACE> Gatlinburg, TN, USA
<CONF DATE > 29 Sep 1980
<DATE> 1980
<CATEGORIES> EDB-050900;052002;055002
<PRIMARY CAT> EDB-050900
<REPORT NO> DP-MS--80-31          DISPLAY RESULTS AND FIND
                                        MORE TERMS
<DESCRIPTORS> AWAY-FROM-REACTOR STORAGE: T1;
  DECOMMISSIONING;ENVIRONMENTAL IMPACTS;LEGAL
  ASPECTS;LICENSING: Q1;SAFEGUARDS;SECURITY;
                                    -MORE-

                                  NEW INDEX TERM FROM DISPLAY
```

```
ENTER:s away-from-reactor storage
>PROCESSING<
   2      56 IT=AWAY-FROM-REACTOR STORAGE
ENTER:c 1 or 2
>PROCESSING<
   3      61 1 OR 2
ENTER:s spent fuel storage                    BEST TERM FOR
>PROCESSING<                                  LOOK COMMAND
   4     915 IT=SPENT FUEL STORAGE
ENTER:look 4/a,t/'afr' +'away:from:reactor'
>PROCESSING<
LOOK:   200 RCDS SRCHD,     17 HITS--CONT?
?LO9    TEXT SEARCH COMMAND INSTRUCTIONS

     YOU MAY EITHER STOP OR CONTINUE THE
LINEAR SEARCH.  IF YOU CONTINUE, 50 MORE
DOCUMENTS WILL BE SEARCHED FOR THE TEXT
YOU HAVE SPECIFIED.  IF YOU STOP, A SET
CONSISTING OF THE DOCUMENTS ALREADY SEL-
ECTED WILL BE CREATED AND ADDED TO YOUR
SET HISTORY.
     YOU MAY ENTER ANY RECON COMMAND AT
THIS POINT, BUT ANYTHING EXCEPT YES WILL
TERMINATE THE TEXT SEARCH.

ENTER: YES    TO CONTINUE THE SEARCH.

ENTER: NO     TO TERMINATE THE SEARCH.
```

```
                                      *     ?-
ENTER:yes;yes;yes;yes
>PROCESSING<
LOOK:   400 RCDS SRCHD,     35 HITS--CONT?
LOOK:   600 RCDS SRCHD,     54 HITS--CONT?
LOOK:   800 RCDS SRCHD,     61 HITS--CONT?
   5      62 4/A,T/'AFR' +'AWAY:FROM:REAC   RESULT
ENTER:c 3 or 5
>PROCESSING<
   6      86 3 OR 5
```

NOTE THAT THE 4TH YES CAUSED CITATIONS 801-1000
TO BE SEARCHED AND CREATED SET 5

SAMPLE CITATION

```
>PROCE$$ING<
DIS  6/5/000010-000020//10          PAGE  1
<ACCESSION NO.> 80C0064890
<TITLE> Spent fuel disposition--the
  situation in the United States
<AUTHORS> Hanson, A.S.
<AUTHOR AFF> Yankee At Electr Co,
  Westboro, Mass
<PUB DESC> Energy Technol. (Wash., D.C.)
  , v. 6, pp. 857-861
<DATE> 1979
<CATEGORIES> EDB-050900
<PRIMARY CAT> EDB-050900
<ABSTRACT> Because neither reprocessing
  nor spent fuel disposal can be
  expected in significant quantities
  during the 1980's, the only
  alternative near-term disposition of
  spent fuel in the US will be interim
  storage. New at-reactor storage
  techniques and away-from-reactor     AWAY FROM REACTOR
  storage facilities will be needed to
  provide the required storage
                                       -MORE-

DIS  6/5/000010-000020//10          PAGE  2
  capacity. In the long term spent fuel
  reprocessing and waste disposal must
  be done if nuclear power is to remain
  an important energy source for the
  US.
<DESCRIPTORS> RADIOACTIVE WASTE
  DISPOSAL;SPENT FUEL STORAGE: T,Q1;
  USA: T1
```

```
SET HISTORY (*=PRINTS, NPT=NO PRINTS)
SET  DESCRIPTOR                CIT
  1  IT=SPENT FUEL
      STORAGE_____________     1159
  2  1/A,T/'AFR'+'AWAY:F
     ROM:REACTOR'________       87
  3  2/A,T/' AFR '+' AWA
     Y:FROM:REACTOR '____       74
  4  2 NOT 3_____________      13
  5  IT=AWAY-FROM-REACTO
     R STORAGE___________      83
  6  2 NOT 5_____________      36
  7  2 OR 5______________     119
```

DIS 4/0/000001-000013//3 PAGE 1
<ACCESSION NO.> 81R0037511
<TITLE (MONO)> Away from reactor (AFR) storage facilities
<EDITOR OR COMP> Feuerwerger, P.
<CORPORATE AUTH> Harvard Univ., Cambridge, MA (USA). Energy and Environmental Policy Center
<PAGE NO> 17
<AVAILABILITY> NTIS, PC A02/MF A01.
<CONTRACT NO> Contract AC01-80PE70278
<DATE> Aug 1980
<CATEGORIES> EDB-050900;055002
<PRIMARY CAT> EDB-050900
<REPORT NO> DOE/PE/70278--T7
<ABSTRACT> The author believes that on-site storage, rather than AFRs, should be supported and encouraged. However, if AFRs are mandated, they should be owned and operated cooperatively among the utilities, if financing and PUC problems can be overcome. If Government ownership and operation is mandated, the AFRs should be run by an independent agency or office with a revolving fund dedicated to specific tasks.
<DESCRIPTORS> AWAY-FROM-REACTOR STORAGE; T1;GOVERNMENT POLICIES; Q1;RADIOACTIVE WASTE FACILITIES;US DOE

DIS 4/0/000001-000013//13 PAGE 1
<ACCESSION NO.> 78R0074694
<TITLE (MONO)> Generic environmental impact statement on handling and storage of spent light water power reactor fuel. Appendices
<CORPORATE AUTH> Nuclear Regulatory Commission, Washington, D.C. (USA). Office of Nuclear Material Safety and Safeguards
<PAGE NO> 253
<AVAILABILITY> Nuclear Regulatory Commission, Washington, DC.
<DATE> Mar 1978
<CATEGORIES> EDB-220500;050900
<PRIMARY CAT> EDB-220500
<REPORT NO> NUREG--0404(Vol.2)(App.)(Draft)
<ABSTRACT> Detailed appendices are included with the following titles: light water reactor fuel cycle, present practice, model 1000MW(e) coal-fired power plant, increasing fuel storage capacity, spent fuel transshipment, spent fuel generation and storage data (1976-2000), characteristics of nuclear fuel, and ''away-from-reactor'' storage concept.
<DESCRIPTORS> BWR TYPE REACTORS; T1;ENVIRONMENTAL EFFECTS; Q3;ENVIRONMENTAL IMPACT STATEMENTS;PLANNING;PWR TYPE REACTORS; T2;REGULATIONS;SPENT FUEL STORAGE; T3,Q1,Q2;STORAGE FACILITIES

```
LBT/493 STARTED AT 19:48:18 ON 09-03-81


BEGIN SESSION 0061--FILE 01 WAS SELECTED
?EDB DOE Energy Database (TIC)
  (738,573 Items, 74:01-81:16)
 VOL
ENTER:s spent fuel storage
>PROCESSING<
   1    1159 IT=SPENT FUEL STORAGE
ENTER:lk 1/a,t/'afr'
>PROCESSING<)i
LOOK:   200 RCDS SRCHD,     14 HITS--CONT?
?LO9    TEXT SEARCH COMMAND INSTRUCTIONS

      You may either stop or continue the


      ....disconnected....redial....


            ENTER ID
            lbt/493
            ENTER PASSWORD
            ********
            LBT/  493 RESTARTED AT 19:51:00
            ENTER:ds
            >PROCESSING<
               2      42 1*600/A,T/'AFR'
               SET HISTORY (*=PRINTS, NPT=NO PRINTS)
               SET  DESCRIPTOR                CIT
                 1  IT=SPENT FUEL
                      STORAGE__________      1159
                 2  1*600/A,T/'AFR'____         42
           ENTER:
                  keep 1/1-600

                        >PROCESSING<
                        99       600 KEEP DATA SET
                        ENTER:c 1 not 99
                        >PROCESSING<
                           3     559 1 NOT 99
                        ENTER:lk 3/a,t/'afr'
                        >PROCESSING<
                        LOOK:   200 RCDS SRCHD,     10 HITS--CONT?
                        ?LO9    TEXT SEARCH COMMAND INSTRUCTIONS

                             You may either stop or continue the
                        linear search. if you continue, 200 more

                           SET HISTORY (*=PRINTS, NPT=NO PRINTS)
                           SET  DESCRIPTOR                CIT
                             1  IT=SPENT FUEL
                                  STORAGE__________      1159
                             2  1*600/A,T/'AFR'____         42
                             3  1 NOT 99__________        559
                             4  3/A,T/'AFR'________         17
                             5  2 OR 4____________         59
                            99  KEEP DATA SET_____        600
```

PRINT
P
&

PR SET NUMBER/FORMAT/RANGE — PRINTS DESIGNATED ITEMS OFFLINE. THEY ARE SENT TO PASSWORD ADDRESS.

PR 2 — PRINTS CITATIONS FROM SET 2 IN DEFAULT FORMAT, DEFAULT QUANTITY 200

PRINT 2/0/1-483 — PRINTS 483 CITATIONS FROM SET 2 IN FULL FORMAT 0. MAXIMUM NUMBER OF CITATIONS PER PRINT COMMAND IS 1000

DELETE/
DE/
DL/

DE/2 — DELETES PRINTS FROM SET 2

```
KEEP
K
(
     KEEP SAVES SPECIFIC CITATIONS THAT YOU CHOOSE
       IN SET 99
     KEEP IS USED FOR SCANNING AND WEEDING, TO
       EDIT A NEAR-PERFECT SET OF CITATIONS

KEEP      KEEP CITATION YOU JUST DISPLAYED (FOR
            ONE-AT-A-TIME FORMATS 0,2,5,7)
(7/1-4    KEEP SET 7, FIRST 4 CITATIONS
K78.8291  KEEP CITATION 8291 FROM VOLUME 78 (FOR
            SEVERAL-AT-A-TIME FORMATS 3,6)



LIMIT
L
)
      LIMIT CAN BE USED TO UPDATE A PREVIOUS SEARCH
      IF THE PREVIOUS SEARCH PRODUCED CITATION #5819
        IN VOLUME 79 AS THE FIRST (LATEST) CITATION,
        REDO THE SEARCH EXACTLY THE SAME
      IF THE RESULT IS SET 10,
      11  L10/79/ALL/5820-999999  (TO GET THE REST OF
                                    VOLUME 79)
      12  L10/80-81               (TO GET VOLUME 80 AND 81)
      13  COMBINE 11 OR 12
```

LIMIT
L
)

LIMIT REDUCES SEARCH SETS BY VARIOUS PARAMETERS
L SET NUMBER[/VOLUME[/DOCUMENT TYPE[/NUMBER RANGE]]]

L2/76-79 LIMITS SET 2 TO VOLUMES 76 THROUGH 79

)2/ALL/R,U,X LIMITS SET 2 TO REPORTS (ALL VOLUMES)
DOCUMENT TYPE U = REPORT ANALYTICS
DOCUMENT TYPE X = PROGRESS REPORTS

LIMIT ALL
L ALL
)ALL

)ALL/77-79 LIMITS ALL SUCCEEDING SETS

L NO CANCELS PREVIOUS LIMIT ALL COMMAND

LIMIT ALL REQUIRES A LOT OF COMPUTER PROCESSING
WE DO NOT RECOMMEND USING LIMIT ALL

=TIME
TIME
T

GIVES ELAPSED TIME IN DECIMAL HOURS
SINCE LAST BEGIN COMMAND.

END
EN
=

EN ENDS YOUR SESSION
=STOP ENDS DIALUP SESSION: LOGS OFF

NOTE: TO SIGNIFY ENDSTOP, THE EQUAL SIGN MUST BE USED

SEARCH SAVE COMMANDS

COMMAND	ABBREVIATION
SAVESRCH	SA
SAVETEMP	SAVET
SAVEMODE ON	SAVEM ON
SAVEMODE OFF	SAVEM OFF
EXEC	EXE
SLIST	SL
SPURGE	SP

SAVED SEARCHES SHOULD BE BUILT OUT OF SELECT COMMANDS. COMBINE COMMANDS CAN BE RETAINED, BUT IF ANY MODIFICATIONS ARE NEEDED, NEW SELECTS AND NEW COMBINES MUST BE ADDED.

```
TO SAVE A SEARCH, PLAN AHEAD.
  DO NOT SELECT FROM EXPAND LISTING.
  USE TRUNCATION JUDICIOUSLY.

ENTER:e(numerical data)
>PROCESSING<
REL. KEYS IT=NUMERICAL DATA
T R.NO. DESCRIPTOR
  R0000 IT=NUMERICAL DATA__
1 R0001 IT=DATA___________
2 R0002 IT=DATA COMPILATION
2 R0003 IT=EVALUATED DATA__
2 R0004 IT=EXPERIMENTAL
          DATA____________
2 R0005 IT=STATISTICAL DATA
2 R0006 IT=THEORETICAL DATA
ENTER:s numerical data;s statistical data
>PROCESSING<
   1  32245 IT=NUMERICAL DATA
   2    222 IT=STATISTICAL DATA

ENTER:savet

SEARCH NUMBER IS 21154

ENTER:exec 21154
>PROCESSING<
   3  32245 IT=NUMERICAL DATA
   4    222 IT=STATISTICAL DATA
```

```
ENTER:e(numerical data)
>PROCESSING<
REL. KEYS IT=NUMERICAL DATA
T R.NO. DESCRIPTOR
  R0000 IT=NUMERICAL DATA__
1 R0001 IT=DATA___________
2 R0002 IT=DATA COMPILATION
2 R0003 IT=EVALUATED DATA__
2 R0004 IT=EXPERIMENTAL
         DATA_____________
2 R0005 IT=STATISTICAL DATA
2 R0006 IT=THEORETICAL DATA
ENTER:s r0,r5
>PROCESSING<
   1   32245 R0,R5
ENTER:savet
>PROCESSING<
SEARCH NUMBER IS 29601


ENTER:exec 29601
>PROCESSING<
   1       0 IT=R0,R5
```

TO SAVE FROM EDB TO NSA, SELECT EACH
RELEVANT NARROWER TERM INDIVIDUALLY.
(NSA DOES NOT HAVE "UPPOSTING" HIERARCHY)

FOR TEMPORARY SAVE, ENTER

SAVET (DOE/RECON GIVES A NUMBER STARTING WITH 2)

FOR A PERMANENT SAVE, ENTER

SAVE or

SA (DOE/RECON GIVES A NUMBER STARTING WITH 1)

```
FOR TEMPORARY SAVE
  ENTER:SAVET
  >PROCESSING<
  SEARCH NUMER IS 27971
```

```
FOR A PERMANET SAVE
  ENTER:SAVE
  >PROCESSING<
  SEARCH NUMBER IS 13887
```

```
TO NAME A SAVED SEARCH
  ENTER:SAVE/GEOTH
  >PROCESSING<
  SEARCH NUMBER IS 13733
  SEARCH NAME IS GEOTH
```

ADDING A NAME TO AN EXISTING SAVE (RIGHT WAY)

```
ENTER:exec 14774
>PROCESSING<
   1       1 MD=COPPER/COST
   2    6899 IT=COPPER
   3    9881 IT=SOLAR COLLECTORS
   4   42351 NC=14
   5   22669 IT=COST
   6    1627 IT=PRICES
   7      25 2 AND (3OR4)AND(5OR6)
ENTER:save 14774/coppr
>PROCESSING<
14774 WAS REPLACED
SEARCH NAME IS COPPR
```

ADDING A NAME TO AN EXISTING SAVE (WRONG WAY)

```
ENTER:exec 13797
>PROCESSING<
   1     " 0 SH=RADIOACTIVE WASTE
   2    9709 IT=WASTE PROCESSING

                ...

  21     716 TL=NEVADA
  22    1652 14-21/OR
  23     154 13 AND 22
ENTER:save/nevad
>PROCESSING<
SEARCH NUMBER IS 12062
SEARCH NAME IS NEVAD
```

NEW SEARCH HAS BEEN NAMED; OLD NOT REPLACED!

TO RENAME A SAVED SEARCH, ENTER NUMBER AND A NEW NAME.

```
ENTER:SAVE 13733/GEO-2
>PROCESSING<
13733 WAS REPLACED
SEARCH NAME IS GEO-2
```

TO SAVE A SEARCH USING TERMS THAT ARE NOT FOUND ON THE PRESENT DATA BASE

```
ENTER:SAVEM ON
>PROCESSING<
SAVE MODE NOW ON
ENTER:S NONEXISTENT
>PROCESSING<
1   0 IT=NONEXISTENT
ENTER:SAVEM OFF
>PROCESSING<
SAVE MODE NOW OFF
```

TO EXECUTE A SAVED SEARCH

```
ENTER:EXEC 12547
>PROCESSING<
1   7773   IT=SOLAR CELLS
2   5381   IT=TECHNOLOGY ASSESSMENT
3    142   1 AND 2
4   1935   IT=COMMERCIALIZATION
5     10   3 AND 4
```

USING 2 SAVED SEARCHES TO DO A SEARCH
EXECUTING ONLY PART OF A PREVIOUS SAVE
(AND RE-SAVING THIS FRAGMENT)

```
ENTER:exec 10563 steps 1-5
>PROCESSING<
    1    1668 IT=ZIRCALOY$
    2     660 TL=ZIRCALOY$
    3     890 SH=ZIRCALOY$
    4     784 MO=ZIRCALOY$
    5    1871 1-4/OR
ENTER:save/zirca
>PROCESSING<
SEARCH NUMBER IS 16748
SEARCH NAME IS ZIRCA
```

EXECUTING ANOTHER SAVE AND COMBINING RESULTS

```
      exec 12866
>PROCESSING<
    6    7979 IT=DETERMINATION
    7    5000 IT=CHEMICAL ANALYSIS
    8    5439 IT=QUANTITATIVE CHEMICAL ANA
    9    2077 IT=QUANTITATIVE ANALYSIS
   10     272 IT=QUALITATIVE CHEMICAL ANAL
   11     225 IT=QUALITATIVE ANALYSIS
   12   18960 6-11/OR
   13   19920 MO=ANALYSIS
   14   11819 MO=DETERMINATION
   15   35694 12-14/OR
ENTER:c 5 and 15
>PROCESSING<
   16     243 5 AND 15
```

TO EXECUTE A SAVED SEARCH FROM SOMEONE ELSE,

- OBTAIN THEIR USER ID AND SEARCH NUMBER
- EXEC UIDnnnnn
- EXEC LBT13723

YOU CANNOT PURGE SOMEONE ELSE'S SAVED SEARCH!

TO LIST ALL SAVED SEARCHES ON YOUR ID, ENTER

SLIST

TO LIST COMMANDS ON A SPECIFIC SEARCH, ENTER

SLIST 13733

TO REMOVE A SAVED SEARCH, ENTER

SPURGE 13733

```
      sl
>PROCESSING<
SEARCHES FOR USER LBT LAST SAVED  LAST EXEC  NAME
 10661                09-01-81    09-01-81   CTLRM
 10974                08-26-81    09-01-81   GAAS
 11103                09-01-81    09-01-81   PRLIF
 11881                09-01-81    09-01-81   FWALL
 12866                09-01-81    09-01-81   ANALY
 13797                09-01-81    09-01-81   NEVAD
 14399                09-01-81               DRILL
 14774                09-01-81    09-01-81   COPPR
 15552                09-02-81               RADEF
 15931                09-01-81    09-01-81   DRIL2
 16615                08-26-81    08-31-81   DAYLT
 16748                09-01-81               ZIRCA
 18711                09-01-81    09-01-81   PRLF2
 18884                09-03-81    09-01-81   CONFS
 19553                08-26-81    08-27-81   LEASE
```

CHECKING, THEN PURGING A SAVED SEARCH

```
ENTER:exec 15294
>PROCESSING<
   1     125 TL=DENVER
   2      17 TL=METRO
   3     170 TL=HOMES
   4       0 1-3/AND
   5       3 1 AND 2
ENTER:

      spurge 15294
>PROCESSING<
SEARCH 15294 PURGED
```

SELECTIVE DISSEMINATION OF INFORMATION

AUTOMATIC SDI ON MOST FILES

PRODUCED WHENEVER THE DATABASE IS UPDATED

COST - $5.00/UPDATE/DATABASE + PRINTING COSTS

TO ESTABLISH AN SDI PROFILE

SET UP SEARCH STRATEGY, KEEPING IN MIND WHICH DATABASES NEED TO BE SEARCHED. USE SAVEMODE ON, IF NECESSARY.

ISSUE A PRINT COMMAND, USING RANGE NUMBERS. IF NO RANGE IS GIVEN, 1-200 WILL BE ASSUMED.

SAVESDI/FUEL/3,5

SAVESDI	saves current search logic since BEGIN as your SDI PROFILE
SAVESDI/FUEL	saves current search logic with name attached
SAVESDI/FUEL/3,5	SDI to be performed on RIP and IPS as well as on current database. Up to 7 other databases can be added.
SAVESDI//5	Double slashes indicate the absence of a name parameter if no name is wanted.
SLIST	produces listing of all your SDI's as well as your saved searches
SPURGE 32345	deletes entire SDI profile
SPURGE 32345/3,4	deletes RIP and GAP from the SDI request.

```
ENTER:savemode on
>PROCESSING<
SAVE MODE NOW ON
ENTER:s salt deposits;s salt caverns
>PROCESSING<
   1    1224  IT=SALT DEPOSITS
   2     126  IT=SALT CAVERNS
ENTER:s radioactive waste disposal
>PROCESSING<
   3    4669  IT=RADIOACTIVE WASTE DISPOSAL
ENTER:s radioactive waste storage
>PROCESSING<
   4    2149  IT=RADIOACTIVE WASTE STORAGE

ENTER:c(1or2)and(3or4)
>PROCESSING<
   5     763  (1OR2)AND(3OR4)
ENTER:print5/5/1-763
PRINT 05/5/000001-000763 ACCEPTED
ENTER:savemode off
>PROCESSING<
SAVE MODE NOW OFF

ENTER:savesdi/waste/3
>PROCESSING<
SEARCH NUMBER IS 38068
SEARCH NAME IS WASTE
ENTER:delete/5  --  ** NECESSARY IF YOU
>PROCESSING<          DO NOT WANT CURRENT
SET 05 DELETED        RESULTS PRINTED

ENTER:slist
>PROCESSING<
SEARCHES FOR USER LBT LAST SAVED LAST E
 18884                 09-01-81   09-03-
 19245                 09-04-81
 19553                 08-26-81   09-21
 38068   SDI           01-08-82
```

SDI CAUTIONS

DO NOT SELECT E OR R NUMBERS FROM AN EXPAND.

BE WARY WHEN USING THE LOOK COMMAND. ONLY 1,000 RECORDS WILL BE SEARCHED WHEN EXECUTED IN THE SDI COMMAND.

DATA BASES THAT ARE NOT UPDATED WILL NOT BE PROCESSED FOR SDI.

WHEN DATA BASES ARE COMPLETELY RELOADED FOR CORRECTION, THE SDI WILL PROCESS ALL RECORDS IN THE DATA BASE. THE RANGE FEATURE IN THE PRINT COMMAND SHOULD ALSO BE USED FOR THIS REASON.

ONLINE ORDERING

ALLOWS ONLINE DOCUMENT ORDERING FROM THE TECHNICAL INFORMATION CENTER CONTRACTOR, ENGINEERED SYSTEMS, INC. OR FROM THE NATIONAL TECHNICAL INFORMATION SERVICE.

REQUESTER MUST HAVE A DEPOSIT ACCOUNT WITH EITHER NTIS OR ENGINEERED SYSTEMS OR ORDER WITH A CREDIT CARD.

WHAT'S AVAILABLE?

NTIS PROVIDES DOCUMENTS THAT HAVE "NTIS" IN THEIR AVAILABILITY FIELD.

TIC PROVIDES DOCUMENTS THAT HAVE IN THEIR AVAILABILITY FIELD "TIC", "EM", "AT", "DTIE" OR "NTIS". (NTIS ONLY IF REPORT IS ONE PROVIDED TO NTIS BY TIC.)

DATA BASES INCLUDED IN ONLINE ORDERING SYSTEM

EDB	WRA
NSA	RSI
GAP	RSC
NSC	NTB

PREPARING AN ORDER

PLACE DOCUMENTS DESIRED IN SET 99. (FOR ORDERING PURPOSES, SET 99 MAY CONTAIN NO MORE THAN 50 DOCUMENTS.)

```
ENTER:keep 25.22152
>PROCESSING<
99          6 KEEP DATA SET

ENTER:(1/1-5
>PROCESSING<
99          6 KEEP DATA SET
```

ORDER COMMAND FORMAT

```
          a    b   c d  e
ORDER TIC 12345 3 FM +
```

a) ACRONYM OF DESIRED SUPPLIER (NTIS OR TIC)

b) DEPOSIT ACCOUNT NUMBER OR "C" FOR CREDIT CARD ORDER

c) NUMBER OF COPIES OF EACH DOCUMENT TO BE ORDERED

d) THE TYPE OF COPY DESIRED

e) EXTRA INSTRUCTIONS TO FOLLOW

```
ENTER:KEEP 25.22152
>PROCESSING<
99        1   KEEP DATA SET

ENTER:ORDER NTIS 123456 2 PC
>PROCESSING<
ORDER NO:   N00015,   1 ITEM(S) IN ORDER
```

```
ENTER:KEEP 1/3-4
>PROCESSING<
99        2   KEEP DATA SET

ENTER:ORDER TIC 123456 FR
>PROCESSING<
*28B0029414 NOT AVAILABLE FROM SUPPLIER*
ORDER NO: T00016,  1 ITEM(S) IN ORDER
```

ONLINE ORDERING

COPY TYPES

MF	MICROFICHE
PC	PAPER COPY
BO	MICROFICHE AND PAPER COPY
MT	MAGNETIC TAPE (NTIS ORDERING ONLY)
FR	SUPPLY ONLY IF FREE (TIC ORDERING ONLY)
FM	SUPPLY IF FREE; OTHERWISE MICROFICHE (TIC)
FP	SUPPLY IF FREE; OTHERWISE PAPER COPY (TIC)

WHEN COPY TYPE IS NOT SPECIFIED, MICROFICHE IS SUPPLIED.

TO ORDER BY CREDIT CARD

```
ENTER:KEEP 2/5-8
>PROCESSING<
99       4 KEEP DATA SET

ENTER:ORDER NTIS C
>PROCESSING<
              CREDIT CARD ORDER
YOU HAVE INDICATED THAT YOU WISH TO USE
AN AMERICAN EXPRESS, VISA OR MASTER
CHARGE CARD FOR THIS ORDER.  THIS AREA
MUST BE USED TO INDICATE CREDIT CARD
NAME, CREDIT CARD CHARGE NUMBER,
EXPIRATION DATE, AND SHIP TO ADDRESS. IT
MAY ALSO BE USED TO CONVEY OTHER SPECIAL
INSTRUCTIONS.

THE MAXIMUM RESTRICTIONS ARE 5 LINES
WITH 80 CHARACTERS PER LINE.  YOU MUST
TYPE THE -RETURN- KEY AFTER EACH LINE.
IF LESS THAN 5 LINES ARE ENTERED, TYPE
ONE BLANK CHARACTER AND THE -RETURN- KEY
AFTER TYPING IN ALL DATA.


ENTER:VISA 123-456-789 04-13-82
ORNL
ATTN: J. JONES
4500 NORTH 125K
OAK RIDGE, TN.  37830  (FTS)111-2222

ORDER NO: N00016,  4 ITEM(S) IN ORDER
```

ONLINE ORDERING

SPECIAL ORDER INSTRUCTIONS

IF YOU HAVE SPECIAL TIME REQUIREMENTS OR WISH TO HAVE DOCUMENT SENT TO OTHER THAN THE DEPOSIT ACCOUNT ADDRESS, ADD A "+" TO THE END OF YOUR ORDER.

```
ENTER:ORDER TIC 12345 3 FM +
>PROCESSING<
    ORDER SPECIAL INSTRUCTIONS
              ***
RECON TRANSMITS WHATEVER YOU TYPE IN THE
5 LINES STARTING WITH THE WORD 'ENTER:'
AS SPECIAL INSTRUCTIONS WITH YOUR ORDER.
THESE INSTRUCTIONS WILL BE DISPLAYED TO
THE SUPPLIER ALONG WITH YOUR ORDER.THE
MAXIMUM RESTRICTIONS ARE 5 LINES WITH 80
CHARACTERS PER LINE.  YOU MUST TYPE THE
-RETURN- KEY AFTER EACH LINE.  IF LESS
THAN 5 LINES ARE ENTERED, TYPE ONE BLANK
CHARACTER AND THE -RETURN- KEY AFTER
TYPING IN ALL THE DATA.


THIS AREA MAY BE USED TO CONVEY TIME
REQUIREMENTS, SHIPPING REQUIREMENTS, ETC.
FOR A 'SHIP TO' ENTRY PLEASE INCLUDE
THE ORGANIZATION, ATTENTION LINE,
COMPLETE MAILING ADDRESS AND PHONE
NUMBER.

ENTER:ORNL
ATTN:J. JONES
4500 NORTH 125K
OAK RIDGE, TN  37830    (FTS)111-2222

ORDER NO:   T00015     4 ITEM(S) IN ORDER
```

TO CANCEL AN ORDER

```
ENTER:ORDER- N00015
>PROCESSING<
ORDER N00015 WAS DELETED
```

AN ORDER CAN BE CANCELED ONLINE ONLY IF IT HAS NOT BEEN RETRIEVED BY THE SUPPLIER.

ONLINE ORDERING

LISTING AN ORDER

```
ENTER:ORLIST
>PROCESSING<
ORDER#    DATE      ORDERED   FILE ITEMS SUPPLIER DATE      PROCESSED
N00001   81-08-11  10:47:38    1    4     NTIS    81-08-11  16:01:17
T00003   81-09-11  09:36:13    1    5     TIC     81-09-11  16:32:04
N00005   81-10-11  11:15:43    2    2     NTIS
```

VARIATIONS OF ORLIST COMMAND

ORLIST NEW	LIST ORDERS NOT YET PROCESSED
ORLIST OLD	LIST ORDERS ALREADY PROCESSED
ORLIST XXXXXX	LIST A PARTICULAR ORDER BY ORDER NUMBER
ORLIST TOTAL	LIST THE TOTAL NUMBER OF ORDERS PROCESSED AND TOTAL NUMBER OF ORDERS NOT YET PROCESSED

REVIEWING AN ORDER

REVIEW	REVIEW ALL ITEMS OF EACH ORDER
REVIEW NEW	REVIEW ALL ITEMS OF ORDERS NOT YET PROCESSED
REVIEW OLD	REVIEW ALL ITEMS OF ORDERS ALREADY PROCESSED
REVIEWXXXXXX	REVIEW ALL ITEMS OF A PARTICULAR ORDER

```
ENTER:REVIEW N00001
>PROCESSING<
ORDER NUMBER:   N00001
09-14-81        13:36:22
ACCOUNT NUMBER  123456          OAK RIDGE, TN 37830
DOCUMENT COPIES  2              DOCUMENT FORM: MF  FILE 1
SHIP TO ORNL
ATTN. J. JONES
4500 SOUTH
OAK RIDGE, TN  37830
PHONE (615)574-5461

DE81 123456              AVAIL: NTIS     DATE: 1981
METHODOLOGY FOR ASSESSING RELIABILITY OF COAL CONV
AAS--75-293
```

LOGGING ON

DIRECT DIAL

AT HIGH PITCHED TONE:

- PLACE RECEVIER IN ACOUSTIC COUPLER
- TYPE ARECON (USE CAPITAL A)
- PRESS THE CARRIAGE RETURN (CR) KEY

RECON WILL ANSWER: ENTER ID

- TYPE YOUR 3-CHARACTER ID CODE
- TYPE "NO" IMMEDIATELY AFTER CODE TO GET SHORTER MESSAGE
- PRESS THE CR KEY

RECON WILL ANSWER: ENTER PASSWORD

- TYPE IN YOUR PASSWORD
- PRESS THE CR KEY

IF YOU HAVE TROUBLE, HUMAN HELP IS AVAILABLE!

BOB ALRED		615/574-5381
AND	ARE AT	AND
RAY PLEMENS		FTS/624-5381

LOGGING ON

DIRECT DIAL

SET SWITCHES:

- EVEN PARITY
- HALF DUPLEX
- 300 BAUD (OR 1200)

DIAL RECON'S NUMBER:

IBM 3705 NUMBER 1

- 300 BAUD

COMMERCIAL	FTS	
615/574-7620	624-7620	(8 LINES)
615/574-7640	624-7640	(8 LINES)
615/576-2300	626-2300	(8 LINES)

- 1200 BAUD

615/576-2121	626-2121	(212A MODEM)

IBM 3705 NUMBER 2

- 300 BAUD

615/574-7630	626-7630	(8 LINES)
615/574-7650	626-7650	(6 LINES)

RECONNECTING AFTER SYSTEM FAILURE

- LOCATE THE 3-DIGIT CODE FOUND IN THE RECON LOGON MESSAGE:

  XXX/366 STARTED AT 15:43:51 ON 12-3-80
- LOGON USING 3-CHARACTER ID CODE FOLLOWED BY /366
- USE SET HISTORY COMMAND TO VERFIY THAT SEARCH SETS ARE STILL AVAILABLE

LOGON INSTRUCTIONS

TELENET LOGON

TELENET MESSAGE	USER ACTION	EXPLANATION
	Set switches: 300 or 1200 baud Full or half duplex	Telenet works in full duplex but may be used in half duplex by entering "half" during logon.
	Dial Telenet: _____ (telephone no.)	Dial nearest Telenet number for modem and speed of terminal being used.*
High-pitched tone	Establish connection	Place receiver in acoustic coupler or press "DATA" button on modem.
No message	(CR) (CR)	Press carriage return (CR) key twice to contact Telenet.
TELENET 202 96R		Telenet responds with port address.
TERMINAL=	(CR) or _____(CR) (terminal code)	Telenet asks for terminal code. Bypass with carriage return or give terminal code from Telenet literature.
@	half	If the terminal is set in half duplex, type "half" (appears as hhaallff). Skip otherwise.
@	c 615 21	Type C 615 21 (Connects to area code 615, ORNL computer)
615 21 CONNECTED	Arecon(CR)	Your DOE/RECON logon begins here. Type capital Arecon(CR).
ENTER ID:	_____ no(CR) (user id)	When DOE/RECON prompts for a user ID, enter your 3-character user ID. To receive a brief welcome message enter "no" after ID.
ENTER PASSWORD:	_____(CR) (recon password)	Enter your DOE/RECON password (Up to 8 alphanumeric characters).
Welcome message		

DOCUMENT DELIVERY BY THE DOE'S TECHNICAL INFORMATION CENTER

The Department of Energy's Technical Information Center (TIC) tries to include sufficient information on document availability with each citation to allow users of the TIC data bases to obtain the complete document. TIC usually cannot provide copies of non-report publications cited in the TIC data bases since, except for reports, TIC has not been responsible for retaining a copy of each document included in the data bases. TIC is also receiving an increasing amount of input from outside sources, and thus does not receive the document itself. If you are unable to locate a copy of a document you want, TIC personnel will be glad to try to help you find one. Please write the Publications Request Section, TIC, or the people mentioned below.

a. Journals - TIC usually retains the Journals received for two years. Julia Daniel, Journal Desk (FTS 626-1280), can tell you whether TIC has the journal issue you need.

b. Conferences - TIC tries to obtain a copy of the proceedings for all conferences cited in the data bases. Doris McGinnis, Publications Acquisitions (FTS 626-1277), can help you with conference questions.
See article in energinfo, vol. 5, no. 11, November 1981.

c. Books and other non-report publications - TIC is presently retaining most of these publications. Mrs. McGinnis can help you determine whether TIC has what you need.

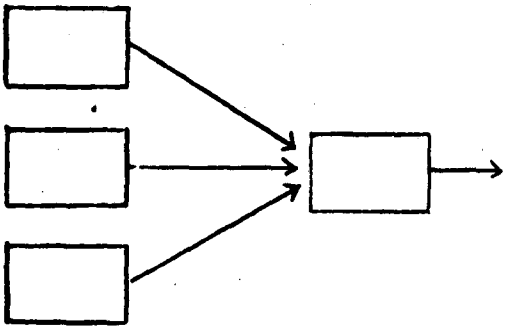
d. Reports - Reports should be requested from TIC on form DOE-540. TIC has limited stock of DOE reports; however, if TIC has a stock of printed copies, a copy can be provided free of charge. Non-DOE reports should be requested from sales agencies. The publication "How to Obtain Research and Development Reports," is available from the Publications Request Section.

SEARCH STRATEGY MODELS

BUILDING BLOCKS SEARCH STRATEGY

CORROSION & BIOFOULING

IN OCEAN THERMAL ENERGY PLANTS

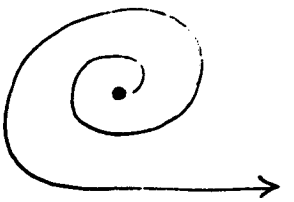


BUILDING BLOCKS SEARCH STRATEGY
CORROSION & BIOFOULING
IN OCEAN THERMAL ENERGY PLANTS

Set			Postings
1	S NC=140800	(*Ocean thermal gradient power plants, under solar energy which is NC=140000*)	1195
2	S OCEAN THERMAL POWER PLANTS		1049
3	C 1 OR 2		1302
4	S CORROSION	(*Sets 4 through 6 are Related Terms to CORROSION*)	6282
5	S CORROSIVE EFFECTS		2246
6	S FOULING	(*includes biological fouling*)	621
7	C 4-6/OR		7345
8	C 3 AND 7		227

SUCCESSIVE FRACTIONS SEARCH STRATEGY
RETROFITTING OF SOLAR HEATING IN THE RESIDENTIAL SECTOR, 1978-1980 ARTICLES

Set			Postings
1	S NC=140900	(*Solar Radiation Utilization; includes solar space and water heating, as well as agricultural process heat*)	11242
2	S HOUSES		4166
3	S RESIDENTIAL BUILDINGS		5049
4	C 1 AND (2 OR 3)	(*The next fraction*)	2474
5	S RETROFITTING		1425
6	C 4 AND 5	(*The next fraction*)	145
	E YR=1978		
	S E6:E8		
7	YR=1978		116535
8	YR=1979		87506
9	YR=1980		23184
10	C 6 AND 7 OR 6 AND 8 OR 6 AND 9	(*The final fraction*)	66

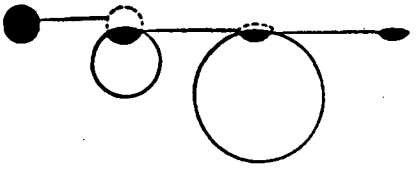


PEARL GROWING STRATEGY
COATINGS FOR SOLAR COLLECTORS, ESPECIALLY SELECTIVE SURFACE COATINGS
THE COUNTRY'S EXPERT IS NASA'S GLENN McDONALD

Set		Postings
1	S AU=MCDONALD, G.E.	13

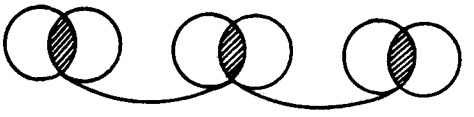
%1 DIS 1/2/000001-000013//1
(ERDA/NASA/1060-77/1) Black chrome on commercially electroplated tin as a solar selective coating
McDonald, G.E.
BLACK COATINGS: T1 CHROMIUM OXIDES:T3 ELECTRODEPOSITED COATINGS/ELECTROPLATING/ EMISSIVITY:Q1,Q2/INFRARED RADIATION/OPTICAL PROPERTIES / OPTIMIZATION / REFLECTIVITY: Q1, Q2, Q3 / SPECTRALLY SELECTIVE SURFACES: T2 / TIN / VISIBLE

Set		Postings
2	S BLACK COATINGS	312
3	S SPECTRALLY SELECTIVE SURFACES	626
4	S SOLAR COLLECTORS	8427
5	C 2-4/AND	89 *
6	S ANTIREFLECTION COATINGS	464
7	S SURFACE COATING	3738
8	C 3 AND 4 AND (2 OR 6 OR 7)	130 *
9	S COATINGS	4656
10	C 3 AND 4 AND 9	201 *



GEM CUTTING SEARCH STRATEGY
STRIP MINING FOR COAL: ENVIRONMENTAL EFFECTS AND RECLAMATION IN THE WEST

Set			Postings
1	S SURFACE MINING		2711
2	S ROCKY MOUNTAIN REGION	(*Hierarchy of states in Region VIII*)	3298
3	C 1 AND 2	(*The first chip is made*)	209
4	S ENVIRONMENTAL EFFECTS		11391
5	S LAND RECLAMATION		1671
6	C 3 AND (4 OR 5)	(*The next chip, from what's left*)	142
7	S NC=010900	(*coal, environmental effects*)	3764
8	S NC=012000	(*coal mining*)	10977
9	S COAL		26413
10	S COAL MINING		6931
11	C 6 AND 7 OR 6 AND 8 OR 6 AND 9 OR 6 AND 10	(*The final chip, the gem is cut*)	132



BEAD STRINGING STRATEGY
DESIGN OF PASSIVE SOLAR SYSTEMS

Set		Postings
1.	S MD=PASSIVE SOLAR HEATING SYSTEMS/DESIGN	149
2.	S MD=PASSIVE SOLAR HEATING SYSTEMS/SPECIFICATIONS	5
3.	S MD=TROMBE WALLS/DESIGN	12
4.	C 1-3/OR	160

MD PAIRS DO NOT CONTAIN HIERARCHY

DOE Technical Information Center Subject Specialists

Section Chief	Subject Responsibility	Subject Category Code
Mary C. Grissom Telephone: FTS 626-1175 Comm. 615/576-1175	COAL AND COAL PRODUCTS	010000
	PETROLEUM	020000
	NATURAL GAS	030000
	OIL SHALES AND TAR SANDS	040000
	FISSION FUELS	050000
	HYDROGEN	080000
	OTHER SYNTHETIC AND NATURAL FUELS	090000
	CHEMISTRY	400000
Lila B. Smith Telephone: FTS 626-1170 Comm. 615/576-1170	FUSION FUELS	060000
	SOLAR ENERGY	140000
	GEOTHERMAL ENERGY	150000
	MHD GENERATORS	300100
	EHD GENERATORS	300200
	FUEL CELLS	300500
	INSTRUMENTATION	440000
	MAGNETIC FUSION ENERGY	700000
Robert C. Kelly Telephone: FTS 626-1163 Comm. 615/576-1163	ISOTOPE AND RADIATION SOURCE TECHNOLOGY	070000
	HYDRO ENERGY	130000
	ELECTRIC POWER ENGINEERING	200000
	ENERGY STORAGE	250000
	ENERGY CONVERSION	300000
	ENERGY CONSERVATION, CONSUMPTION, AND UTILIZATION	320000
	ADVANCED AUTOMOTIVE PROPULSION SYSTEMS	330000
	ENGINEERING	420000
	PARTICLE ACCELERATORS	430000
	EXPLOSIONS AND EXPLOSIVES	450000
Henry D. Raleigh Telephone: FTS 626-1169 Comm. 615/576-1169	TIDAL POWER	160000
	WIND POWER	170000
	NUCLEAR POWER PLANTS	210000
	NUCLEAR REACTOR TECHNOLOGY	220000
Charles E. Stuber Telephone: FTS 626-1178 Comm. 615/576-1178	BATTERIES	250900
	MATERIALS	360000
	PHYSICS RESEARCH	640000
	NUCLEAR PHYSICS	651000
Lee M. Thompson Telephone: FTS 626-1158 Comm. 615/576-1158	ENERGY MANAGEMENT AND POLICY	290000

Section Chief	Subject Responsibility	Subject Category Code
Sidney F. Lanier Telephone: FTS 626-1166 Comm. 615/576-1166	ENVIRONMENTAL SCIENCES, ATMOSPHERIC	500000
	ENVIRONMENTAL SCIENCES, TERRESTRIAL	510000
	ENVIRONMENTAL SCIENCES, AQUATIC	520000
	ENVIRONMENTAL-SOCIAL ASPECTS OF ENERGY TECHNOLOGIES	530000
	BIOMEDICAL SCIENCES, BASIC STUDIES	550000
	BIOMEDICAL SCIENCES, APPLIED STUDIES	560000
	HEALTH AND SAFETY	570000
	GEOSCIENCES	580000

Nancy Hardin - Problem of obtaining books, journals, and conferences

Telephone:
FTS 626-1278
Comm. 615/576-1278

Dora Moneyhun - Problem of obtaining reports

Telephone:
FTS 626-1301
Comm. 615/576-1301

Julia Redford - Problems with data base content

Telephone:
FTS 626-1157
Comm. 615/576-1157

Leon Yount - Problems with hardware

Telephone:
FTS 624-5391
Comm. 615/574-5391

?EDB DOE ENERGY DATABASE (TIC)
(639,207 ITEMS 74:01-80:22)

THIS FILE CONTAINS ALL UNCLASSIFIED ENERGY-RELATED SCIENTIFIC AND TECHNICAL INFORMATION PROCESSED AT THE TECHNICAL INFORMATION CENTER (TIC). IT INCLUDES ALL NUCLEAR INFORMATION PROCESSED SINCE JUNE 1976 WITH THE EXCEPTION OF POWER REACTOR DOCKET INFORMATION. SEE THE PRD FILE FOR THIS INFORMATION.

FOR NUCLEAR INFORMATION PROCESSED PRIOR TO JUNE 1976, PLEASE SEE THE NSA FILE.

FOR FURTHER INFORMATION CONTACT:
DAVE BOST, DOE/TIC, OAK RIDGE, TN
615-576-1155 FTS: 626-1155

INDEXES INCLUDE:

AU= AUTHOR	YR= YEAR OF PUB.
TL= TITLE WORDS	LA= LANGUAGE
RN= REPORT NO.	AJ= ANNOUNCEMENT JO.
RP= REPORT PREFIX	DC= DISTRIBUTION CAT.
CS= CORP. SOURCE	DO= DOCUMENT ORIGIN
IC= CORP. CODE	PC= PRIMARY CAT.
CN= CONTRACT NO.	NC= SUBJECT CAT.
CD= CONTRACT CODE	IT= ALL DESCRIPTORS
CO= COUNTRY OF AFF.	SD= SELECTED DESCR.
CP= COUNTRY OF PUB.	MD= MAJOR DESCR.
PN= PATENT NATION	DT= DATA TAGS
JO= JOURNAL CODEN	

NOTE: CS= INCLUDES CORPORATE AUTHOR, PATENT ASSIGNEE, AND AUTHOR AFFILIATION.

IN USE OF THE LOOK COMMAND:
'T' SEARCHES THE TITLE AND AUGMENTATION
    FIELDS.
'A' SEARCHES THE ABSTRACT.

ENTER ?LOOK FOR INFORMATION ON THE USE
  OF THIS COMMAND.

SINCE MOST OF THE EDB RECORDS CONTAIN
AN ABSTRACT, THE USE OF FORMAT 0 OR 5
IS SUGGESTED FOR PRINT COMMANDS.

YOU MAY USE ?DTY FOR A LIST OF THE
DOCUMENT TYPE CODES AND ?AVA FOR
INFORMATION ON THE AVAILABILITY OF
THE DOCUMENTS THEMSELVES. ?EDU
GIVES THE UPDATE STATUS OF THIS
FILE AND ?ECO GIVES CATEGORY CODES.

ENTER ?ABV FOR ABBREVIATIONS USED IN THE
AVAILABILITY STATEMENTS AND ?PRC FOR THE
NTIS PRICE CODES TABLE. ENTER ?POA
FOR PATENT OFFICE ADDRESSES.

EDB UNIT RECORD AND PRINTS

COMPLETE UNIT RECORD

The names of all searchable and printable data elements in the EDB unit record are listed below. Further details and selected examples are given on the following pages.

Data element	Searchable field	Printable fields in format* 0	2	3	4	5	6	Search by	Examples
Accession Number	X	X	X	X	X	X	X	direct access	Z78j2345
Type of Document	X	X	X	X	X	X	X	limit command	)2/all/j
Report Number	X	X	X	X	X	X	X	RN	RN=ORNLTM2744
Report Prefix	X	X	X	X	X	X	X	RP	RP=ORNL
Personal Authors	X	X	X		X	X	X	AU	AU=Smith, A.J.
Title	X	X	X	X	X	X	X	TL	TL=energy
Corporate Code	X						X	IC	IC=950259
Corporate Source	X	X	X		X	X	X	CS	CS=Livermore
Publication Description		X	X		X	X	X		
Journal Coden	X						X	JO	JO=CMPRB
Availability		X	X			X	X		
Date	X	X	X		X	X	X	YR	YR=1978
Language	X	X	X			X	X	LA	LA=French
Contract Number	X	X	X			X	X	CN	CN=EY-76-S-02-3084
Country of Publication	X						X	CP	CP=US
Country of Affiliation	X						X	CO	CO=US
Patent Nation	X						X	PN	PN=British
Contract Code	X						X	CD	CD=Conservation
Document Origin	X						X	DO	DO=P
Announcement Journal	X						X	AJ	AJ=ERA
Augmentation	X						X	look command	LK 1/T/'1980'
Distribution Category	X						X	DC	DC=95
Primary Subject Category	X	X	X			X	X	PC	PC=020400
Subject Category	X	X	X			X	X	NC	NC=010404
Abstract	X	X				X	X	look command	LK 2/A/'RTR'
Subject Descriptors (manual)	X	X	X				X	SD	SD=hydrogen
Subject Descriptors (manual + computer)	X						X	IT	IT=coal
Major Subject Descriptors	X	X	X				X	MD	MD=coal/chemical analysis
Data Tag	X	X	X				X	DT	DT=coal
Internal Code	X						X	BS	

*Format 1 lists only accession numbers.

ENERGY INFORMATION
DATA BASE
SUBJECT CATEGORIES

1 EDB

CONTENTS

?NSA NUCLEAR SCIENCE ABSTRACTS (TIC)
(554,342 ITEMS, 21:01 - 33:12)
RELOADED AS OF 12/03/79
THIS FILE CONTAINS REFERENCES THAT WERE ANNOUNCED IN VOLUME 21 (1967) THROUGH VOLUME 33 (1976) OF NUCLEAR SCIENCE ABSTRACTS. NO FURTHER REFERENCES WILL BE ADDED TO THIS FILE. NUCLEAR INFORMATION PROCESSED AT THE DOE TECHNICAL INFORMATION CENTER (TIC) IS NOW INCLUDED IN THE DOE ENERGY DATABASE (EDB) ON RECON. NSA CITATIONS DO NOT INCLUDE A FULL ABSTRACT DUE TO FILE SIZE LIMITS.

FOR FURTHER INFORMATION CONTACT:

DAVE BOST, DOE/TIC, OAK RIDGE, TN
615-576-1155 FTS: 576-1155

AVAILABLE INDEXES:

TL= TITLE WORDS	
AU= AUTHOR	
RN= REPORT NO.	JO= JOURNAL CODEN
RP= REPORT PREFIX	YR= YEAR OF PUB.
CS= CORP. SOURCE	LA= LANGUAGESOURCE
IC= CORP. CODE (VOL. 28-33)	DO= DOCUMENT ORIGIN
	NC= SUBJECT CATEGORY
CC= CORP. CODE (VOL. 21-27)	PC= PRIMARY CATEGORY
	IT= DESCRIPTORS
CN= CONTRACT NO. PREFIX	MD= MAJOR DESCRIPTOR
	SH= SUBJECT HEADINGS
CO= COUNTRY OF AFF.	MO= MODIFIER WORDS
CP= COUNTRY OF PUB.	
PN= PATENT NATION	

TEXT SEARCH AVAILABLE ON TITLES (T) AND TITLE AUGMENTATION (A). ENTER ?LOOK FOR INFORMATION ON THIS COMMAND.

ENTER ?ABV FOR ABBREVIATIONS USED IN THE AVAILABILITY STATEMENTS AND ?PRC FOR THE NTIS PRICE CODES TABLE. ENTER ?POA FOR PATENT OFFICE ADDRESSES.

2 NSA

NSA

DETERMINATION OF OXYGEN IN ALUMINUM

```
>PROCESSING<
   SET HISTORY (*=PRINTS, NPT=NO PRINTS)
   SET  DESCRIPTOR                  CIT
     1  IT=OXYGEN_____________      8479
     2  IT=ALUMINIUM__________      2511
     3  IT=ALUMINUM___________      2716
     4  IT=CHEMICAL
         ANALYSIS_____________      5000
     5  IT=QUANTITATIVE
         CHEMICAL ANALYSIS_          5439
     6  IT=QUALITATIVE
         CHEMICAL ANALYSIS_           272
     7  IT=QUANTITATIVE
         ANALYSIS_____________       2077
     8  IT=QUALITATIVE
         ANALYSIS_____________        225
     9  IT=DETERMINATION_____       7979
    10  1 AND (2 OR 3) AND
         (4-9/OR)_____________         90

 ENTER: d 10/6
```

```
DIS 10/6/000001-000090//1
<ACCESSION NO.> 33C0011471     *******1
<REPORT NO> CONF-741040--P1  PP. 157-162
<REPORT NO,PAGE> CONF-741040--P1
<TITLE> T2aJe element studies at
  University of Pittsburgh
<TITLE(MONO)> Proceedings of the third
  conference on application of small
  accelerators,  Volume I,  The use of
  small accwlerators in research and
  teachins

<ACCESSION NO.> 33Y0008848     *******2
<TITLE> Methods for the chemical
  analysis of Fe--Mn concretions
<TITLE(MONO)> Khimicheskii analiz
  morskikh osadkov
```

NSA

RADIATION EFFECTS ON TEFLON

```
SET HISTORY (*=PRINTS, NPT=NO PRINTS)
SET   DESCRIPTOR                CIT
  1   IT=TEFLON_____________      313
  2   SH=ETHYLENE, TETRAF
      LUORO-, POLYMERS_____       153
  3   IT=RADIATION
       EFFECTS_____________     28183
  4   IT=RADIOLYSIS_______      5956
  5   IT=CHEMICAL
       RADIATION EFFECTS_       2485
  6   IT=RADIATION
       CHEMISTRY___________     4870
  7   IT=PHYSICAL
       RADIATION EFFECTS_       5794
  8   1 OR 2______________        389
  9   8 AND (3-7/OR)______        156

ENTER:d 9/6
>PROCESSING<
DIS  9/6/000001-000156//1
<ACCESSION NO.> 33J0028560     *******1
<TITLE> Hyperfiltration membranes
  prepared by radiochemical grafting of
  styrene onto poly(tetrafluoroethylene)
  .   Influence of the size and shape
  of emulsion particles used to obtain
  the PTFE film

<ACCESSION NO.> 33J0028525     *******2
<TITLE> Chemical transformations of
  tetrafluoroethylene copolymer with
  ethylene during radiolysis in vacuum

<ACCESSION NO.> 33J0026871     *******3
<TITLE> TSC studies of carrier trapping
  in electron- and $gamma$-irradiated
  Teflon

<ACCESSION NO.> 33J0011536     *******4
<TITLE> Accelerated radiation
  degradation of polymers by
```

NSA

ENVIRONMENTAL MONITORING AT WEST VALLEY FUEL REPROCESSING PLANT

```
   SET HISTORY (*=PRINTS, NPT=NO PRINTS)
   SET  DESCRIPTOR                CIT
     1  SH=WEST VALLEY
          PROCESSING PLANT__      150
     2  IT=WEST VALLEY
          PROCESSING PLANT__       54
     3  IT=RADIATION
          MONITORING_______      3635
     4  IT=ENVIRONMENT_____      9279
     5  1 OR 2___________         198
     6  5 AND (3 OR 4)_____        49
ENTER:d 6;0

>PROCESSING<
DIS  6/2/000001-000049//1          PAGE  1
<ACCESSION NO.> 33R0014362
<REPORT NO;PAGE> DOCKET-50201--172
<TITLE (MONO)> West Valley Reprocessing
  Plant.  Environmental report No. 18,
  January--June 1975
<CORPORATE AUTH> Nuclear Fuel Services,
  Inc., Rockville, Md. (USA)
<AVAILABILITY> Dep. NTIS $5.00.
<DATE> 25 Aug 1975
<CATEGORIES> EDB-050800;210802;520301;
<PRIMARY CAT> EDB-050800
<AUGMENTATION> Environmental report No.
  18, January--June 1975
<DESCRIPTORS> GASEOUS WASTES;
  LICENSING:Q1;LIQUID WASTES;RADIATION
  MONITORING;RADIOACTIVE WASTES;
  REPROCESSING;SPENT FUELS;WEST VALLEY
  PROCESSING PLANT:M1
<PRIMARY CAT.> 40450
<CATEGORIES> 40450;79600;44310;44330
DIS  6/2/000001-000049//2          PAGE  1
<ACCESSION NO.> 32C0008920
<REPORT NO;PAGE> BNWL-SA--5411
<SEC REPT NO> CONF-750503--22
<TITLE (MONO)> Iodine-129 in aquatic
  organisms near nuclear fuels
  processing plants
<AUTHORS> Watson, D.G.
<CORPORATE AUTH> Battelle Pacific
  Northwest Labs., Richland, Wash. (USA)
<AVAILABILITY> Dep. NTIS $4.00.
<CONF TITLE> 4. national symposium on
  radioecology
<CONF PLACE> Corvallis, Oregon, USA
<CONF DATE > 12 May 1975
<DATE> Apr 1975
<AUGMENTATION> Content of crayfish,
  fish, algae, sediments, and surface
  waters
<DESCRIPTORS> ALGAE:M2;AQUATIC
  ECOSYSTEMS;CRUSTACEANS:M3;
  DIFFUSION:Q1;ENVIRONMENT;FUEL
```

EXAMPLES OF INCONSISTENCY IN NSA DATA BASE DUE TO CHANGING THESAURI

Present Terminology	Other descriptors or combination of descriptors
ALUMINIUM	ALUMINUM
RADIATION SYNDROME	RADIATION SICKNESS
PHYSICAL RADIATION EFFECTS BIOLOGICAL RADIATION EFFECTS CHEMICAL RADIATION EFFECTS	RADIATION EFFECTS (early thesaurus had no breakdown)
GE SEMICONDUCTOR DETECTORS	SEMICONDUCTOR COUNTERS + GERMANIUM
LI-DRIFTED GE DETECTORS HIGH-PURITY GE DETECTORS	SOLID STATE COUNTERS + GERMANIUM
MULTIWIRE PROPORTIONAL CHAMBERS	MULTI-WIRE PROPORTIONAL COUNTERS MULTIWIRE PROPORTIONAL CHAMBERS MULTIWIRE PROPORTIONAL COUNTERS PROPORTIONAL COUNTERS + POSITION-SENSITIVE DETECTORS
CHEMICAL ANALYSIS	DETERMINATION QUANTITATIVE ANALYSIS QUALITATIVE ANALYSIS (different time span for these terms)
RADIOACTIVE WASTES	WASTE SOLUTIONS
RADIOACTIVE WASTE PROCESSING	WASTE PROCESSING
RADIOACTIVE WASTE DISPOSAL	WASTE DISPOSAL
RADIOACTIVE WASTE MANAGEMENT	WASTE MANAGEMENT
RADIOACTIVE WASTE STORAGE	WASTE STORAGE
NUCLEAR FUELS	FUELS
SPENT FUELS	SPENT FUEL ELEMENTS
REACTOR CORES	REACTOR CORE
CONTROL ROD WORTHS	CONTROL ROD WORTH
FUEL ELEMENT FAILURE	FUEL ELEMENTS + FAILURE

BWR TYPE REACTORS	BOILING WATER REACTORS BWR-TYPE REACTOR
PWR TYPE REACTORS	PRESSURIZED WATER REACTORS PWR PWR-TYPE REACTOR
ZERO POWER REACTORS	CRITICAL ASSEMBLIES
LMFBR TYPE REACTORS	LMFBR LIQUID METAL COOLED REACTORS + FBR TYPE REACTORS
PROTON REACTIONS	PROTON BEAMS + NUCLEAR REACTIONS
ION-ATOM COLLISIONS	ION COLLISIONS
PION-PROTON INTERACTIONS	PION BEAMS + PROTONS + INTERACTIONS

```
BEGIN SESSION 0007--FILE 03 WAS SELECTED
?RIP ENERGY RESEARCH IN PROGRESS (DOE)
(FILE RELOADED THRU 81:09 ON 10/30/81)
 DATA BASE CONTAINS 13,985 ITEMS.
This file contains current information
on research contracts. It contains
two types of records: energy-related
research sponsored by the Department
of Energy and environment-related
research sponsored by any federal
agency. The file is maintained by
the Technical Information Center.

For further information contact:
Dave Bost, DOE/TIC, Oak Ridge, TN
  615-576-1155   FTS: 626-1155

AVAILABLE INDEXES:
TL= Title Words          PI= Investigator
ZP= Zip Code             PO= Perf. Org.
OC= Perf. Org. Code      PT= Perf Org Type
LC= Location             CO= Country
MC= Mon. Agency Code     MO= Mon. Agency
TM= Technical Monitor    SD= Start Date
CD= Completion Date      SO= Source Info.
BR= B and R Code         IT= Descr.
MD= Major Descr.         SP= Sel. Descr.
PC= Primary Category     CN= Contract No.
NC= Category No.

Enter ?acr for a listing of acronyms
  used in the MO= index.

?ACRONYMS Common Agency Acronym Table

ACRONYM   AGENCY NAME
-------   -------------------------------

AG        Department of Agriculture
AEC *     Atomic Energy Commission
AEC/ERDA  ...AEC renamed ERDA...
DOC       Department of Commerce
DOD       Department of Defense
DOS       Department of State
DOT       Department of Transportation
EPA       Environmental Protection Agency
ERDA      Energy Research & Development
          Agency, formerly AEC.
FEA       Federal Energy Administration
HEW       Dept. of Health, Education and
          Welfare
HUD       Dept. of Housing & Urban Dev.
INT       Department of the Interior
NASA      National Aeronautics & Space
          Administration
NSF       National Science Foundation
TVA       Tennessee Valley Authority
U         University of or University
```

RIP

STUDIES ON ENVIRONMENTAL IMPACTS OF
COAL GASIFICATION.

SET HISTORY (*=PRINTS, NPT=NO PRINTS)

SET	DESCRIPTOR	CIT
1	IT=COAL GASIFICATIO N PLANTS	118
2	IT=ENVIRONMENTAL IMPACTS	1317
3	IT=ENVIRONMENTAL EFFECTS	446
4	1AND(2OR3)	43

DIS 4/0/000002-000002//2 PAGE 1
<ACCESSION NO.> B1R0903424
<TITLE> Aquatic-Biological Effects of Discharges from Conventional Coal-Fired Power Plants and New Energy Demonstrations - Coal Gasification
<INVESTIGATOR> Wyatt, J.M.; Young, R.C.
<PHONE> C615-755-3167;F857-3167; C205-386-2067;F872-8067
<PERF ORG> Tennessee Valley Authority, Muscle Shoals, AL. Div. of Water Resources
<PERF ORG CODE> 9512562
<ADDRESS> Tennessee Valley Authority
<CITY> Muscle Shoals;Chattanooga
<STATE> AL;TN
<ZIP CODE> 35660;37401
<ORG CNTRL NO> 0000-017-42-2142
<CONTRACT NO> TV-50447A
<PROJECT STATUS> N
<PERF ORG TYPE> US
<LOCATION> AL
<COUNTRY> US
<MON AGCY CODE> 9511764
<MON AGCY> Environmental Protection Agency, Washington, DC. Office of Environmental Processes and Effects Research
<TECH MONITOR> Galli, A.A.
<TM PHONE > C202-426-0287; F426-0287
<ADMIN MONITOR> Hirsch, A.
<START DATE> Feb 80
<COMPL DATE> Dec 83
<FUND AGENCY A> EPA-78:0;79:0;80:50; 81:275

RIP

IS DOE FUNDING ANY RESEARCH ON THE
DISPOSAL OF HAZARDOUS WASTE?

SET HISTORY (*=PRINTS, NPT=NO PRINTS)

SET	DESCRIPTOR	CIT
1	IT=HAZARDOUS MATERIALS	101
2	IT=TOXIC MATERIALS	208
3	IT=WASTE DISPOSAL	464
4	MO=DEPARTMENT	8670
5	MO=ENERGY	8666
6	SO=WPAS	3738
7	SO=538	2237
8	4AND5	8264
9	6OR7	5975
10	3AND(1OR2)	32
11	10*8OR1OAND9	6

d 11

DIS 11/2/000001-000006//1
<ACCESSION NO.> 81R0003118
<TITLE> Migration of Hazardous Wastes
<INVESTIGATOR> Wiley, J.R.
<PHONE> C803-725-2549;F239-2549
<PERF ORG> Du Pont de Nemours (E.I.)
and Co., Aiken, SC. Savannah River
Lab.
<ADDRESS> Savannah River Lab.
<CITY> Aiken
<STATE> SC
<ZIP CODE> 29808
<CONTRACT NO> AC09-76SR00001
<MON AGCY CODE> 9510696
<MON AGCY> Department of Energy,
Washington, DC. Assistant Secretary
for Nuclear Energy
<TECH MONITOR> Albenesius, E.L.
<START DATE> Oct 82
<COMPL DATE> Aug 88
<FUND AGENCY A> DOE-79:0;80:0;81:0;82:0
<TIC CATEGORIES> 510301

?GAP GENERAL AND PRACTICAL DATA BASE
(17,334 ITEMS THRU 80:11)

THIS FILE CONTAINS GENERAL AND PRACTICAL ENERGY INFORMATION PROCESSED AT THE TECHNICAL INFORMATION CENTER. IT IS DESIGNED TO GIVE PRACTICAL INFORMATION TO THE PLANNER AND THE GENERAL PUBLIC. THE FILE CONTAINS REFERENCES TO FLYERS, PAMPHLETS, POSTERS, ETC., AS WELL AS TO MORE TRADITIONAL LITERATURE.

FOR FURTHER INFORMATION CONTACT:
DAVE BOST, DOE/TIC, OAK RIDGE, TN
615-576-1155 FTS:626-1155

AVAILABLE INDEXES:

AU= AUTHOR	JO= JOURNAL CODEN
TL= TITLE WORDS	YR= YEAR OF PUB.
RN= REPORT NUMBER	LA= LANGUAGE
RP= REPORT PREFIX	ED= EDB DOCUMENTS
CS= CORP. SOURCE	DO= DOCUMENT ORIGIN
IC= CORP. CODE	LI= LITERATURE TYPES
CN= CONTRACT NO.	NC= CATEGORY NO.
CD= CONTRACT CODE	PC= PRIME CATEGORY
CO= COUNTRY OF AFF.	IT= DESCRIPTORS
CP= COUNTRY OF PUB.	SD= SELECTED DESCRIP.
PN= PATENT NATION	MD= MAJOR DESCRIPTORS
ST= STATE	

CODES FOR LITERATURE TYPES:

L=LEGAL	D=DRAWINGS & PHOTOGRAPHS
F=FLYERS	
S=STANDARD	P=PAMPHLETS
M=MOTION PICTURES	I=INSTRUCTURAL MATERIALS
C=CHARTS & POSTERS	

GAP

WHAT FINANCIAL INCENTIVES ARE GIVEN FOR UTILIZING SOLAR ENERGY IN RESIDENTIAL BUILDINGS?

```
   SET HISTORY (*=PRINTS, NPT=NO PRINTS)
   SET  DESCRIPTOR                 CIT
     1  NC=14_____________          5266
     2  IT=RESIDENTIAL
         BUILDINGS_________          2980
     3  IT=MOBILE HOMES____           43
     4  IT=TAX LAWS________           14
     5  IT=FINANCIAL
         INCENTIVES________          510
     6  1 AND (2 OR 3) AND
         (4 OR 5)__________           42
     7  ED=EDB_____________        12114
     8  6NOT7______________            9
ENTER:d 8/6
>PROCESSING<
DIS  8/6/000001-000009//1
<ACCESSION NO.> 80J0017687     *******1
<TITLE> Investing in the solar
  transition

<ACCESSION NO.> 80B0017300     *******2
<TITLE(MONO)> Something new under the
  sun:  building Connecticut's first
  solar home

<ACCESSION NO.> 80B0016698     *******3
<TITLE(MONO)> Solar:  here and now

<ACCESSION NO.> 80J0015776     *******4
<TITLE> In conversation with:  Sara
  Balcomb

<ACCESSION NO.> 80J0015398     *******5
<TITLE> California's new solar tax
  credit
```

4 GAP

GAP

IS THERE ANY NATIONAL EMERGENCY PLAN IN CASE OF AN ENERGY CRISIS?

```
>PROCESSING<
   SET HISTORY (*=PRINTS, NPT=NO PRINTS)
   SET  DESCRIPTOR                CIT
     1  IT=ENERGY SHORTAGES        488
     2  IT=ENERGY SUPPLIES_        921
     3  IT=EMERGENCY PLAN__         48
     4  TL=RATIONING_______         16
     5  IT=ENERGY DEMAND___        744
     6  (1 OR 2 OR 5) AND
          (3 OR 4)_________         21


   ENTER: d 6/6
   >PROCESSING<
   DIS  6/6/000001-000021//1
   <ACCESSION NO.> 80R0017242     *******1
   <TITLE(MONO)> Progress report to
     Congress on the standby motor fuel
     rationing plans
   <REPORT NO> DOE/RG--0030

   <ACCESSION NO.> 79R0013917     *******2
   <TITLE(MONO)> Public's behavior and
     attitudes during the February 1977
     energy crisis.  Appendix:  computer
     tabulations
   <REPORT NO> CONS--8434-T4

   <ACCESSION NO.> 79R0013915     *******3
   <TITLE(MONO)> Public's behavior and
     attitudes during the 1977 energy
     crisis:  Survey II.  Marginal and
     regional findings for all questions
   <REPORT NO> CONS--8434-T2
```

?IPS ISSUES AND POLICY SUMMARIES (TIC)
(1,327 ITEMS THRU 80:49)

THIS FILE PROVIDES ACCESS TO PUBLIC STATEMENTS ON ENERGY BY DOE OFFICIALS, THE WHITE HOUSE, MEMBERS OF CONGRESS, AND OTHERS. COVERAGE INCLUDES SPEECHES, CONGRESSIONAL TESTIMONY, NEWS RELEASES, WHITE HOUSE DOCUMENTS, PRESS CONFERENCE TRANSCRIPTS, ETC.

AVAILABLE INDEXES INCLUDE:

TL=TITLE WORD	NA=NAME FIELD
DA=DATE (YYMMDD)	IT=DESCRIPTORS
DT=DOCUMENT TYPE	SD=POSTED DESCRIPTORS
DN=DOCUMENT NUMBER	MD=DESCRIPTORS PAIRS

FOR FURTHER INFORMATION CONTACT:
DAVE BOST, DOE/TIC, OAK RIDGE, TN
COMMERCIAL: 615-576-1155 FTS: 626-1155

A DOCUMENT NUMBER IS ASSIGNED TO EACH ITEM INDEXED. THE DOCUMENT NUMBER PREFIXES HAVE MEANINGS AS FOLLOW:

CC	CONGRESSIONAL CORRESPONDENCE
CT	CONGRESSIONAL TESTIMONY
CTR	CORRECTED TRANSCRIPT
I	INTERVIEW TRANSCRIPT
M	MEDIA TRANSCRIPT
N	NEWS RELEASE (NOTE TO EDITORS)
PC	PRESS CONFERENCE
QA	QUESTIONS AND ANSWERS (PROVIDED TO CONGRESS OR THE PRESS)
R	NEWS RELEASE (PUBLIC ANNOUNCEMENT)
S	SPEECH
WH	WHITE HOUSE DOCUMENT

THESE PREFIXES ARE USED WITH THE DOCUMENT TYPE INDEX, DT=. * ?+, ?-

IT=KEYWORDS
SD=MANUALLY POSTED DESCRIPTORS
MD=DESCRIPTOR PAIRS

IPS

WHAT WAS THE CONGRESSIONAL TESTIMONY BEFORE THE HOUSE SUBCOMMITTEE ON ENERGY DEVELOPMENT AND APPLICATION CONCERNING SYNTHETIC FUELS HELD SOMETIME LAST YEAR?

```
    SET HISTORY (*=PRINTS, NPT=NO PRINTS)
    SET  DESCRIPTOR                CIT
      1  DT=CT_____________          269
      2  DA=80$____________          912
      3  IT=SYNTHETIC FUELS_         120
      4  1-3/AND___________           29
      5  TL=HOUSE__________          215
      6  4 AND 5___________           14
ENTER:d 6

>PROCESSING<
DIS  6/2/000001-000014//1          PAGE  1
<ACCESSION NO.> 80*0001289
<TITLE> Statement of Bert Greenglass
  before the Committee on Science and
  Technology and the Committee on
  Agriculture, US House of
  Representatives. (Congressional
  Testimony)
<DATE> 2 Oct 1980
<REPORT NUMBER> CT--10-2-80
<DESCRIPTORS> ALCOHOL FUELS:M1;RESEARCH
  PROGRAMS:Q1,Q2;REVIEWS;ENERGY
  SECURITY ACT:M3;IMPLEMENTATION:Q3;
  CELLULOSE;SYNTHETIC FUELS:M2;
<NAME FIELD> Greenglass, B.;
ENTER:0
>PROCESSING<
DIS  6/2/000001-000014//2          PAGE  1
<ACCESSION NO.> 80*0001287
<TITLE> Statement of Ruth M. Davis
  before the Subcommittee on Economic
  Stabilization, Committee on Banking,
  Finance, and Urban Affairs, US House
  of Representatives. (Congressional
  Testimony)
<DATE> 1 Oct 1980
<REPORT NUMBER> CT--10-1-80
<DESCRIPTORS> SYNTHETIC FUELS
  CORPORATION:M;SYNTHETIC FUELS:M1,Q2;
  NATIONAL DEFENSE:M2;ENERGY SECURITY
  ACT;PRODUCTION:Q1;CONTRACTS;
  DEMONSTRATION PROGRAMS;FEDERAL
  ASSISTANCE PROGRAMS;FINANCIAL
  ASSISTANCE;
<NAME FIELD> Davis, R.M.;
```

5 IPS

IPS

WHAT IS THE POSITION OF SECRETARY EDWARDS ON SOLAR ENERGY?

```
EXPAND  NA=EDWARDS, J.
 REF   DESCRIPTOR                CIT    RT
 E01   NA=DUNCAN, C.W.____        58
 E02   NA=EBBECKE, C.W.___         1
 E03   NA=ECKHARDT, B.____         1
 E04   NA=EDINGTON, C.W.__         1
 E05   NA=EDMONDSON, A.D._         1
-E06   NA=EDWARDS, J._____
 E07   NA=EDWARDS, J.B.___        48
 E08   NA=EVERED, J.E.____         2
 E09   NA=FEDORUK, N._____         1
 E10   NA=FENILI, R.N.____         1
 E11   NA=FERGUSON, R.L.__         7
 E12   NA=FISCHER, C.W.___         5
 E13   NA=FISKE, G.W._____         1
 E14   NA=FORSSELL, R.M.__         1
 E15   NA=FRAZER, K.E._____         2
 E16   NA=FREMLING, A.G.__         4
 E17   NA=FRIEMAN, E.A.___        10
 E18   NA=FUMICH, G._____         12
 E19   NA=FYGI, E.J._____          5
 E20   NA=GATES, M.E._____         4
                                 -MORE-
```

```
SET HISTORY (*=PRINTS, NPT=NO PRINTS)
SET   DESCRIPTOR                CIT
  1   NA=EDWARDS, J.B.___        48
  2   TL=SOLAR_____________     108
  3   IT=ENERGY____________     128
  4   2 AND 3______________      53
  5   IT=SOLAR ENERGY_____      101
  6   1 AND (4 OR 5)______        8
```

```
ENTER;d 6
>PROCESSING<
DIS  6/2/000001-000008//1          PAGE  1
<ACCESSION NO.> 81%0001725
<TITLE> Remarks prepared for delivery
  by James B. Edwards before the South
  Carolina Solar Energy Industries
  Association, Charleston, South
  Carolina. (Speech)
<DATE> 5 Oct 1981
<REPORT NUMBER> S--10-5-81
<DESCRIPTORS> ENERGY POLICY;M,Q1;SOLAR
  ENERGY;M1;SOLAR INDUSTRY;ECONOMIC
  POLICY;MARKET;TAX CREDITS;BIOMASS;
  GOVERNMENT POLICIES;
<NAME FIELD> Edwards, J.B.;
ENTER;0
>PROCESSING<
DIS  6/2/000001-000008//2          PAGE  1
<ACCESSION NO.> 81%0001557
<TITLE> Speech prepared for delivery by
  James B. Edwards before the US
  National Committee, World E
ENTER;
```

6 PRD

?PRD Power Reactor Docket Info.(TIC/NRC)
(Contains 65,233 citations, Mar,1979)

This file contains the docket information previously contained in the Energy Data Base category 210701. Power reactor docket items are no longer input to EDB and the PRD file will not be updated. The indexes are the same as for EDB and can be seen by entering ?t.

For further information contact:

Dave Bost, DOE/TIC, Oak Ridge, TN
615-576-1155 FTS: 626-1155

?FED FEDEX (Federal Energy Data Index)
   (2,930 RELOADED 10/27/80)
This information was supplied by DOE/EIA
 TEXT SEARCH ON TITLE AND ABSTRACT

INDEXES INCLUDE:
 TL= TITLE WORDS
 NC= SUBJ. CATEGORIES
 DA= DATA AGGREGATE
 SD= MANUALLY ASSIGNED DESCRIPTORS
 IT= ALL DESCRIPTORS
 MD= DESCRIPTOR PAIRS
 DS= DATA SOURCE
 RN= REPORT NUMBER
 DD= DATA DATE
 PD= PARENT DOCUMENT
 LI= INFORMATION LEVEL
INFORMATION LEVEL CODES:
LI=D (Document) LI=G (Graph)
LI=T (Table) LI=B (Table and graph)

Enter ?ABV for Abbreviations used in the Availability Statements and ?PRC for the NTIS Price Codes Table. Enter ?POA for Patent Office Addresses.

FED

WHAT WILL THE UTILITIES' NUCLEAR CAPACITY BE IN 1990?

```
    SET HISTORY (*=PRINTS, NPT=NO PRINTS)
    SET  DESCRIPTOR                CIT
      1  IT=NUCLEAR POWER___        192
      2  IT=CAPACITY_____           224
      3  DD=1990_____________       466
      4  1-3/AND_____________        10
ENTER:d 4
>PROCESSING<
DIS  4/2/000001-000010//1          PAGE  1
<ACCESSION NO.> 80*0002611
<DATA LOCATOR> DOE/EIA--0102/14 Tables
  VI-18 and VI-19, pages 145-146
<TITLE> Nuclear and hydro forecasts for
  1985 and 1990
<DATA DATE> 1985;1990
<DATA AGGREGATE> year;World;World
  Regional
<CATEGORIES> EDB-296000;200100;050000;
  130300;292000;150102;210801
<DESCRIPTORS> AUSTRALIA;CANADA: A;
  CAPACITY: Q2;CENTRALLY PLANNED
  ECONOMIES: A;COMMON MARKET: A;
  DEVELOPING COUNTRIES: A;ELECTRIC
  POWER: A1;FORECASTING;GEOTHERMAL
  ENERGY: A4;HYDROELECTRIC POWER: A3;
  JAPAN: A;NEW ZEALAND;NUCLEAR POWER:
  A2;OECD: A;OPEC: A;POWER GENERATION:
  Q1,Q2,Q3,Q4
<DATA SOURCE> EIA;WEO;OECD
<DSN> 80:002611
                                       -MORE-
ENTER:0
>PROCESSING<
DIS  4/2/000001-000010//1          PAGE  2
<UPPOSTED DESC> ASIA;AUSTRALASIA;
  ELECTRIC POWER;ENERGY;ENERGY SOURCES;
  EUROPEAN COMMUNITIES;INTERNATIONAL
  ORGANIZATIONS;NORTH AMERICA;
  OIL-EXPORTING COUNTRIES;POWER;
  RENEWABLE ENERGY SOURCES
<LITERATURE TYPE> T
<AUGMENTATION> Nuclear and hydro
  forecasts for 1985 and 1990
```

Table 4.9
Estimated OECD Nuclear Electricity Capacity[a] (Gigawatts, GW) and Generation (Terawatt Hours per Year, TWh), 1975–1990

	1975 Actual		1985		1990	
	GW	TWh	GW	TWh	GW	TWh
United States	36	205	99	566	164	936
OECD Europe Total	17	102	79	453	122	695
France	3	18	25	141	36	203
Germany	3	21	15	84	28	159
Spain	1	8	7	42	12	65
United Kingdom	5	30	12	67	13	74
Canada	3	13	10	64	13	88
Japan	6	25	17	96	31	179
Australia/New Zealand					1	6
OECD Total	62	345	205	1,179	331	1,903

[a] Nameplate capacity under Projection Series C.

Table 4.17
Forecasts of Future Nuclear Capacity (GW)

	1975 Actual	1985		1990	
		1976	1977	1976	1977
United States	36.0	126.0	99.0	182.0	164.0
Japan	6.0	22.2	16.9	41.0	31.4
Canada	2.7	9.9	9.8	17.6	13.4
Western Europe	17.7	99.8	79.5	171.4	128.5
Australia/New Zealand	0.0	0.0	0.0	1.6	1.0
OECD Total	62.4	257.9	205.2	413.6	338.3

7 FED

FED

GRAPH ON U.S. COKE PRODUCTION IN 1978 OR 1979

```
SET HISTORY (*=PRINTS, NPT=NO PRINTS)
SET   DESCRIPTOR                CIT
  1   MD=COKE/PRODUCTION_        67
  2   LI=G_____________         513
  3   DA=US____________        3675
  4   DD=1978__________        2567
  5   DD=1979__________        1606
  6   1 AND 2 AND 3 AND
        (4 OR 5)_________           1


ENTER:d 6/5/1
>PROCESSING<
DIS  6/5/000001-000001//1          PAGE  1
<ACCESSION NO.> 02*0000778
<DATA LOCATOR> DOE/EIA--0121 Figure 1,
  page 1, issue 2(79)
<TITLE> Average daily production of
  coke and pig iron
<DATA DATE> 1977-1979
<DATA AGGREGATE> month;year;US
<ABSTRACT> Line graph shows the average
  daily production (in thousand short
  tons per day) of beehive coke, of
  oven coke, and of pig iron in the
  United States by month for the three
  most recent years, including the
  year-to-date.
<DESCRIPTORS> BEEHIVE COKE: T1;COKE: T3;
  IRON ALLOYS: T4;OVEN COKE: T2;
  PRODUCTION: Q1,Q2,Q3,Q4
<DATA SOURCE> EIA
<DSN
```

HOW MUCH ELECTRICITY WAS CONSUMED BY THE RESIDENTIAL SECTOR IN CALIFORNIA IN 1979? IS THE DATA BROKEN DOWN BY MONTH?

```
      SET HISTORY (*=PRINTS, NPT=NO PRINTS)
      SET  DESCRIPTOR                CIT
        1  IT=ELECTRIC POWER___       691
        2  IT=ENERGY
            CONSUMPTION_______        692
        3  IT=RESIDENTIAL
            SECTOR____________        410
        4  IT=CALIFORNIA_____        289
        5  DD=1979___________        721
        6  1-5/AND___________          1
        7  DA=MONTH__________        417
        8  6 AND 7___________          1
ENTER:d 8;0
>PROCESSING<
DIS  8/2/000001-000001//1          PAGE  1
<ACCESSION NO.> 03*0001307
<DATA LOCATOR> DOE/EIA--0147 Table 3,
  page 5
<TITLE> Monthly sales of electric
  energy to ultimate consumers
<DATA DATE> 1978;1979
<DATA AGGREGATE> month;State;US
  Regional;US;Economic Sector
<CATEGORIES> EDB-200106;320000;296000
<DESCRIPTORS> ALABAMA: T;ALASKA: T;
  ARIZONA: T;ARKANSAS: T;CALIFORNIA: T;
  COLORADO: T;COMMERCIAL SECTOR: T3;
  CONNECTICUT: T;DELAWARE: T;ELECTRIC
  POWER: T1;ENERGY CONSUMPTION:
  Q1,Q2,Q3,Q4;FLORIDA: T;GEORGIA: T;
  HAWAII: T;IDAHO: T;ILLINOIS: T;
  INDIANA: T;INDUSTRY: T4;IOWA: T;
  KANSAS: T;KENTUCKY: T;LOUISIANA: T;
  MAINE: T;MARYLAND: T;MASSACHUSETTS: T;
  MICHIGAN: T;MINNESOTA: T;MISSISSIPPI:
  T;MISSOURI: T;MONTANA: T;NEBRASKA: T;
                                    -MORE-
DIS  8/2/000001-000001//1          PAGE  2
  NEVADA: T;NEW HAMPSHIRE: T;NEW
  JERSEY: T;NEW MEXICO: T;NEW YORK: T;
  NORTH CAROLINA: T;NORTH DAKOTA: T;
  OHIO: T;OKLAHOMA: T;OREGON: T;
  PENNSYLVANIA: T;RESIDENTIAL SECTOR:
  T2;RHODE ISLAND: T;SOUTH CAROLINA: T;
  SOUTH DAKOTA: T;TENNESSEE: T;TEXAS: T;
  TRADE: Q1;UTAH: T;VERMONT: T;
  VIRGINIA: T;WASHINGTON: T;WASHINGTON
  DC: T;WEST VIRGINIA: T;WISCONSIN: T;
  WYOMING: T
<DATA SOURCE> Form FPC-5
<DSN> 03:001307
<UPPOSTED DESC> CENTRAL REGION;GREAT
  LAKES REGION;MID-ATLANTIC REGION;
  MIDWEST REGION;NORTH AMERICA;NORTH
  ATLANTIC REGION;PACIFIC NORTHWEST
  REGION;POWER;ROCKY MOUNTAIN REGION;
  SOUTHEAST REGION;SOUTHWEST REGION;USA;
  WESTERN REGION
<LITERATURE TYPE> T
```

DOE/EIA-0115/77
Supply, Demand, and Stocks of All Oils by P.A.D. Districts and Imports into the U.S. by Country, Annual (5 tables).

DOE/EIA-0134
Supply, Disposition and Stocks of All Oils by P.A.D. Districts and Imports into the U.S. by Country, Monthly (7 tables).

DOE/EIA-0016
Supply, Disposition, and Sticks of All Oils by P.A.D. Districts and Imports into the U.S. by Country, Quarterly (5 tables).

DOE/EIA-0208
Weekly Petroleum Status Report (8 tables).

DOE/EIA-0197
Wholesale Fuel Oil Distributors Stocks and Sales (5 tables).

DOE/EIA-0117/77
World Crude Oil Production 1977 (1 table).

DOE/EIA-0117/78
World Crude Oil Production Annual 1978 (1 table).

Natural Gas

DOE/EIA-0167
Gas Supplies of Interstate Natural Gas Pipeline Companies (48 tables).

DOE/EIA-0129/77
Main Line Natural Gas Sales to Industrial Users

DOE/EIA-0130
Natural and Synthetic Gas

DOE/EIA-0150
Natural Gas Deliveries and Curtailments to End-Use Customers and Potential Needs for Additional Alternate Fuels 1978-1979 Heating Season (19 tables).

DOE/EIA-0131/77
Natural Gas Production and Consumption: 1977 (10 tables).

DOE/EIA-0132
Products of Natural Gas Processing Plants (1 table).

DOE/EIA-0166
Reduction in Natural Gas Requirements Due to Fuel Switching (13 tables).

Natural Gas (continued)

DOE/EIA-0145
Statistics of Interstate Natural Gas Pipeline Companies 1977 (23 tables).

DOE/EIA-0151
Underground Storage of Natural Gas by Interstate Pipeline Companies for 1976 (11 tables).

DOE/EIA-0188/78
U.S. Imports and Exports of Natural Gas 1978 (8 tables).

DOE/EIA-0133
World Natural Gas (3 tables).

Other Energy Sources

DOE/EIA-0122/1
Coke Producers in the U.S. in 1977 (2 tables).

DOE/EIA-0174 (78)
Solar Collector Manufacturing Activity (2 tables).

DOE/EIA-0164
Wind Energy Conversion Systems Manufacturing and Sales Activity (1 table).

-Shelley Prosser, EIA

Publications Included in FED Update at Table-Level

Electric Power

DOE/EIA-0147
Financial Statistics of Electric Utilities and Interstate Natural Gas Pipeline Companies (5 tables).

DOE/EIA-0095
Inventory of Power Plants in the United State (54 tables).

DOE/EIA-0010/3
Monthly Comparisons of Peak Demands and Energy for Load 1974 to 1978 (18 tables).

DOE/EIA-0049/78
Power Production, Fuel Consumption, and Installed Capacity Data for 1978 (11 tables).

DOE/EIA-0044 (77)
Statistics of Privately-Owned Electric Utilities in the U.S., 1977 (19 tables).

DOE/EIA-0172
Statistics of Publicly-Owned Electric Utilities in the U.S., 1977 (18 tables).

Energy Consumption, Utilization and Conservation

DOE/EIA-0181
Annual Energy Balance, 1978 (8 tables).

DOE/EIA-0199/P
Characteristics of the Housing Stock and Households: Preliminary Findings from the National Interim Energy Consumption Survey (15 tables).

DOE/EIA-0014
End Use Energy Consumption Data Base: Series 1 Tables (100 tables).

DOE/EIA-0192/ (78)
Federal Energy Data System (FEDS) Statistical Summary Update (12 tables).

DOE/EIA-0193/P
Preliminary Conservation Tables from the National Interim Energy Consumption Survey (25 tables).

DOE/EIA-0190
State Energy Fuels Prices by Major Economic Sector from 1960 through 1977 (13 tables).

DOE/EIA-0173 (SYN)
Synopsis of Energy Facts and Projections (31 tables).

Petroleum

DOE/EIA-0105
Availability of Heavy Fuel Oils by Sulfur Levels (20 tables).

DOE/EIA-0096
Cost and Indexes for Oilfield Equipment and Production Operations in the U.S. (67 tables).

DOE/EIA-0107
Crude-Oil and Refined-Products Pipeline Mileage in the U.S. (8 tables).

DOE/EIA-0109
Crude Petroleum, Petroleum Products, and Natural Gas Liquids, Monthly (26 tables).

DOE/EIA-0108/77
Crude Petroleum, Petroleum Products, and Natural Gas Liquids: 1977 Annual (36 tables).

DOE/EIA-0097
Depth and Producing Rate Classification of Domestic Oil Reservoirs, 1974 (39 tables).

DOE/EIA-0042/77
International Petroleum Annual (11 tables).

DOE/EIA-0076
Motor Gasoline Supply and Demand 1967-1978 (16 tables).

DOE/EIA-0111
Petroleum Refineries in the U.S. and Puerto Rico (5 tables).

DOE/EIA-0195
Retail Sales and Inventories of Fuel Oil (5 tables).

DOE/EIA-0112/77
Sales of Asphalt in 1977 (5 tables).

DOE/EIA-0113/77
Sales of Fuel Oil and Kerosene in 1977 (15 tables).

DOE/EIA-0114/77
Sales of Liquefied Petroleum Gases and Ethane in 1977 (10 tables).

?NSC NUCLEAR SAFETY INFORMATION CENTER
(141,848 ITEMS AS OF 3/30/80)

THE NUCLEAR SAFETY INFORMATION CENTER FILE (NSC) CONTAINS A WIDE VARIETY OF CITATIONS AND DATA SOURCES FROM THE LITERATURE, AS WELL AS REGULATORY INFORMATION, NEWS ARTICLES, ETC.

AVAILABLE SEARCH PREFIXES INCLUDE:

TL= TITLE WORDS	
AU= AUTHOR(S)	IT= KEYWORDS
CC= CORP. CODE(S)	CO= COUNTRY CODE(S)
NC= SUBJECT CODE	JO= JOURNAL CODEN
SY= SYSTEM CODE	CP= COMPONENT CODE

RN= ACRS REFERENCE NUMBER
ED= NSC EDITION (UPDATE) NUMBER
YR= SIGNIFICANT DATE, (NOT ALWAYS PUB.)
CONTACT: J.R. BUCHANAN, ORNL.

NOTE: PLEASE SEE ?CODES FOR NSC DOCUMENT TYPE CODE EXPLANATION.
ENTER:

?CODES RECON VERSUS NSIC DOCUMENT TYPE

RECON		NSIC
D	DATA SOURCE	A
Y	BIBLIOGRAPHIES	B
R	PROGRESS REPORTS	G
E	ENGINEERING REPORTS ETC.	H
B	BOOKS	J
P	PATENTS	K
C	TRANSACTIONS	L
V	NEWS ARTICLES OR ITEMS	M
X	TOPICAL REPORTS	N
J	JOURNAL ARTICLES	O
Z	LICENSING AND REGULATORY INFO.	Q
U	ALL OTHER TYPES	U

NOTE: "RECON" TYPES APPEAR AS PART OF THE REPORT NUMBER "02J001256" AND MUST BE USED IN THE "LIMIT" COMMAND. THE OLD NSIC TYPE IS GIVEN IN THE BODY OF THE DOCUMENT ON THE SCREEN, AND MUST NOT BE USED IN THE "LIMIT" COMMAND.

NSC

HOW MANY FIRES OCCURRED IN CONNECTION TO CABLES AND PENETRATION IN NUCLEAR POWER PLANTS? WHAT ARE THE PROTECTIVE MEASURES TAKEN?

```
SET HISTORY (*=PRINTS, NPT=NO PRINTS)
SET  DESCRIPTOR                CIT
  1  IT=FIRE_____________      1357
  2  IT=CABLES AND
      CONNECTORS_________       2021
  3  IT=CONTAINMENT PENE
     TRATION, ELECTRICAL        270
  4  1 AND (2 OR 3)_____        172
  5  NC=17_______________      45225
  6  4 AND 5_____________        116
  7  IT=FIRE PROTECTION_       1401
  8  7 AND (2 OR 3)_____        229
  9  8 NOT 6_____________       199

ENTER:d 6/6/1-2;d 9/6
>PROCESSING<
DIS  6/6/000001-000002//1
<ACCESSION NO.> 00C0161232     *******1
<TITLE> FIRE PROTECTION RESEARCH PROGRAM AT
  SANDIA LABORATORIES

<ACCESSION NO.> 00Z0159240     *******2
<TITLE> SAFETY INJECTION INITIATION OCCURS AT
  SURRY 1
DISPLAY + IS NOT POSSIBLE AT THIS POINT
DIS  9/6/000001-000199//1
<ACCESSION NO.> 00Z0167913     *******1
<TITLE> RELAY ROOM SMOKE ALARM FAILS AT BROWNS
  FERRY 2

<ACCESSION NO.> 00Z0167726     *******2
<TITLE> UPDATE ON FIRE PUMP AUTO START LOGIC
  FAILURE AT BROWNS FERRY 1

<ACCESSION NO.> 00Z0167709     *******3
<TITLE> UNSEALED FIRE BARRIER FOUND IN CABLE
  SPREADING ROOM AT SURRY 1
```

8 NSC

NSC

SAFEGUARDS OF NUCLEAR MATERIAL AGAINST THEFT AND SABOTAGE
IN NUCLEAR FACILITIES

```
SET HISTORY (*=PRINTS, NPT=NO PRINTS)
SET   DESCRIPTOR                  CIT
  1   NC=22_____________          1699
  2   NC=01_____________         11803
  3   IT=SAFEGUARDS,
       NUCLEAR MATERIAL___        1340
  4   IT=THEFT/DIVERSION_         291
  5   IT=ACCOUNTABILITY__         240
  6   IT=SECURITY_______          453
  7   IT=SABOTAGE_______          335
  8   (1 OR 2) AND 3____         1275
  9   8 AND (4-7/OR)____          553

ENTER:d 9/6
>PROCESSING<
DIS  9/6/000001-000553//1
<ACCESSION NO.> 00C0167869     *******1
<TITLE> NUCLEAR SAFEGUARDS TECHNOLOGY
  1978

<ACCESSION NO.> 00J0166928     *******2
<TITLE> TECHNICAL NOTE:  MOTIVATIONS
  AND POSSIBLE ACTIONS OF POTENTIAL
  CRIMINAL ADVERSARIES OF U.S. NUCLEAR
  PROGRAMS

<ACCESSION NO.> 00X0166909     *******3
<TITLE> NUCLEAR POWER PLANT DESIGN
  CONCEPTS FOR SABOTAGE PROTECTION
  VOL.II:  APPENDICES D, E, F, G

<ACCESSION NO.> 00R0166905     *******4
<TITLE> SUMMARY OF ACTIVITIES A
ENTER:
```

NSIC CATEGORY SCOPE NOTES

Brief scope notes are presented below on each of NSIC's 22 subject categories.

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 vs risk, probability of accidents, plant availability, concepts of reliability, nuclear emergencies, concepts of quality assurance, etc.

2. Siting of Nuclear Facilities

   Includes the following subjects related to any type of nuclear facility: Characteristics of the site and environs, economics of site selection, seismology, geology, seismic design of plant, environmental effects of site preparation and construction, effects on site of flooding or tornado protection, population density, power transmission effects on area, etc.

3. Transportation and Handling of Radioactive Materials

   Covers shipping containers, shipping regulations, safety analysis reports for packaging (SARP), criticality safety in transit, transportation accidents, design of tiedowns, shipping condition (impact, fire, vibration, etc.), heat-transfer capability of shipping containers, etc.

4. Aerospace Safety (Inactive ∿1970)

   Covers safety considerations unique to nuclear systems used in aerospace vehicles — launch and re-entry problems only.

5. Heat Transfer and Thermal Hydraulics

   Deals wit.. 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 which may have a direct bearing on reactor dynamic behavior; and design studies concerned with nuclear stability and the understanding of potential kinetics safety problems.

7. Fission Product Release, Transport, and Removal

Includes the release from fuel and movement of fission products within the facility; the physical and chemical characterization of the released radionuclides; and removal mechanisms such as deposition, adsorption, filtration, fallout, plateout, etc.

8. Sources of Energy Release Under Accident Conditions

Covers nuclear, Wigner, and gamma energies; energy released by chemical reactions; metal-water reactions; pyrophoric reactions; metal fires; and all other types of energy that might be released as a result of a nuclear accident (e.g., steam-engendered explosion).

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 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.

11. Containment of Nuclear Facilities

Includes all aspects of the containment of radioactivity at all types of nuclear facilities. Barriers considered include fuel cladding, piping, pressure vessels, containment vessels, and reactor buildings. Major concerns are design considerations, structural integrity, quality assurance, materials properties, and radiation damage to materials.

12. Plant Safety Features — Reactor

Covers all engineered safety features of reactors (except containment) that are designed to minimize the consequences of an accident in a nuclear facility. Includes systems for reducing temperature and pressure, emergency core cooling, containment spray, hydrogen recombination, emergency boration system, auxiliary feedwater system, main steam isolation valves, standby gas treatment, core isolation cooling, low pressure coolant injection, core spray, etc.

13. Plant Safety Features — Nonreactor

Deals with all safety information related to the nuclear fission fuel cycle that is external to the reactor, and therefore not characterized into one of the other categories. Included are the safety considerations of fuel reprocessing, mining, milling, enrichment, fuel fabrication, fuel storage and handling outside a reactor facility, hot cell activities, and isotope processing.

14. Radionuclide Release, Disposal, Treatment and Management (Inactive Sept. 1973)

The following subjects are included as related to any type of nuclear facility: Controlled release from a facility, effluent control schemes; procedures and limits for release of low level wastes and for burial; waste treatment; long-term storage of high level wastes; waste management, etc.

15. Environmental Surveys, Monitoring and Radiation Dose Measurements (Inactive Sept. 1973)

Deals with the following Health Physics Topics related to any type of nuclear facility: Environmental monitoring and personnel monitoring during accidental or routine releases of radionuclides both on and off site, monitoring of external exposure to population groups off site, monitoring techniques and instrument applications, personnel exposure to radiation, and environmental operating reports.

16. Meteorological Considerations

Includes diffusion and deposition of radioactive material near the earth's surface, atmospheric transport, and fallout. Also includes the general considerations of meteorological processes that adversely affect the environment such as tornadoes, floods, damaging winds, etc., and possible micrometeorological effects of very large energy generation centers.

17. Operational Safety and Experience

Covers operating experience at all types of nuclear facilities. Reportable incidents during facility construction are found in both Category 17 and 18. 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.

18. Design, Construction and Licensing

Includes the following topics relating to nuclear facilities not yet licensed to operate: Research and development programs, general descriptions of reactors, design studies, licensing correspondence, construction problems (also in Category 17), responses to NRC questions, and safety analysis reports and amendments.

19. Internal Exposure Effects on Humans Due to Radioactivity in the Environment (Inactive Sept. 1973)

Includes the following topics: Metabolic effects and hazards to humans from radioactivity or toxic wastes in the environs irregardless of source with emphasis on internal exposure; data on maximum permissible concentrations in air, water or food; and environmental operating reports.

20. Effects of Thermal Modifications on Ecological Systems (Inactive Sept. 1973)

Includes the following topics: Thermal pollution of water bodies; influence of heat on uptake of radionuclides and transport in the biosphere; consideration of other cooling devices such as cooling towers, ponds, etc; beneficial use of waste heat; and environmental operating reports.

21. Radiation Effects on Ecological Systems (Inactive Sept. 1973)

Includes the following: Effects of radiation or radioactivity on natural populations of organisms in the environment; effects of radiation or radioactivity on mortality, longevity, reproduction and other functions of plants and animals; cycling of radionuclides in the environment such as through the food chain, and environmental operating reports.

22. Safeguards of Nuclear Materials

Includes the topics of theft or diversion of nuclear materials, safeguards research and rule-making, protection against sabotage, non-proliferation, and consideration of postulated malevolent nuclear acts.

23. Risk Reliability and Probabilistics

?WRA WATER RESOURCES ABSTRACTS (WRSIC)
(146,454 ITEMS THROUGH 13:19)
TEXT SEARCH NOW ON TITLE + ABSTRACT
THIS FILE IS TAKEN FROM "SELECTED WATER RESOURCES ABSTRACTS", AN ABSTRACTING JOURNAL PUBLISHED BY THE DEPARTMENT OF THE INTERIOR, WATER RESOURCES SCIENTIFIC INFORMATION CENTER. (WRSIC)

SUBJECT MATTER INCLUDES PERTINENT ITEMS OF LEGISLATION, ENVIRONMENTAL EFFECTS ARTICLES, WILDLIFE MANAGEMENT ETC.

AVAILABLE INDEXES INCLUDE-
TL=TITLE WORDS
AU=PERSONAL AUTHOR
IT=INDEX TERMS
CA=CORPORATE AUTHOR
NC=WRSIC CATEGORY CODE NUMBERS
(USE ?NCO ETC. FOR LISTING OF CODES)

CONTACT: LOU LULICH, WRSIC.

WRA FIELDS AND GROUPS

01 NATURE OF WATER (433)

- A Properties (133)
- B Aqueous solutions and suspensions (242)

02 WATER CYCLE (46,142)

- A General (3096)
- B Precipitation (2682)
- C Snow, ice, and frost (3151)
- D Evaporation and transpiration (1582)
- E Streamflow and runoff (5940)
- F Groundwater (5217)
- G Water in soils (5600)
- H Lakes (6517)
- I Water in plants (2446)
- J Erosion and sedimentation (5809)
- K Chemical processes (5106)
- L Estuaries (7896)

03 WATER SUPPLY AND AUGMENTATION AND CONSERVATION (13,338)

- A Saline water conversion (1911)
- B Water yield improvement (1732)
- C Use of water of impaired quality (1243)
- D Conservation in dosmestic and municipal use (1470)
- E Conservation in industry (1909)
- F Conservation in agriculture (5570)

04 WATER QUANTITY MANAGEMENT AND CONTROL (19,533)

- A Control of water on the surface (11,512)
- B Groundwater management (5467)
- C Effect's on water of man's non-water activities (1837)
- D Watershed protection (1960)

05 WATER QUALITY MANAGEMENT AND PROTECTION (64,298)

- A Identification of pollutants (12,028)
- B Sources of pollution (14,652)
- C Effects of pollution (17,775)
- D Waste treatment processes (18,057)
- E Ultimate disposal of wastes (3394)
- F Water treatment and quality alteration (2804)
- G Water quality control (15,720)

FIELDS and GROUPS - Continued

06 WATER RESOURCES PLANNING (29,766)

- A Techniques of Planning (3544)
- B Evaluation process (6433)
- C Cost allocation, cost sharing, pricing/repayment (2089)
- D Water demand (1723)
- E Water law and institutions (15,170)
- F Nonstructural alternatives (1405)
- G Ecologic impact of water development (4020)

07 RESOURCES DATA

- A Network design (661)
- B Data acquisition (5373)
- C Evaluation,processing, and publication (6599)

08 ENGINEERING WORKS (11,376)

- A Structures (2263)
- B Hydraulics (4250)
- C Hydraulic machinery (1608)
- D Soil mechanics (979)
- E Rock mechanics and geology (522)
- F Concrete (469)
- G Materials (1363)
- H Rapid excavation (208)
- I Fisheries (1057)

09 MANPOWER, GRANTS AND FACILITIES (403)

- A Education - extramural (213)
- B Education - in-house (19)
- C Research facilities (59)
- D Grants, contracts, and research act allotments (228)

10 SCIENTIFIC AND TECHNICAL INFORMATION (1255)

- A Acquisition and processing (85)
- B Reference and retrieval (135)
- C Secondary publication and distribution (652)
- D Specialized information center services (84)
- E Translations (4)
- F Preparation of reviews (418)

Reproduced courtesy of John Luedtke,
Coordinator, Water Resources Information
Program, Univ. of Wisconsin
(608) 262-0561

THESAURUS/VOCABULARY CONSIDERATIONS

1) Abbreviations - spell out most terms

For example,	for:	use:
	pH	Hydrogen ion concentration
	Cu	Copper
	PCBs	Polychlorinated biphenyls
	TVA	Tennessee Valley Authority
	WI	Wisconsin

However, watch out for exceptions:

Dichloro-diphenyl-trichloro-ethane	DDT
Escherichia coli	E. coli

2) Unusual word construction

for:	use:
power plants	Powerplants
wastewater	Waste water
seawater	Sea water
feedlots	Feed lots

and inconsistent descriptor construction:

Rainfall simulators
Simulated rainfall

3) Parenthetical comments - must be included when selecting keywords:

Water management (applied)
Future planning (projected)
Waste water (pollution)
Water consumption (except consumptive use)
Social behavior (animal)

4) Popular vs scientific names - most plants and animals are listed by their popular name, such as gastropods, worms, mollusks, copepods, maple trees, and nematodes.

But watch for exceptions;

for:	use:
blue-green algae	Cyanophyta
green algae	Chlorophyta
red algae	Rhodophyta

5) Ambiguous Thesaurus cross-references

for:	use:
algal blooms	Eutrophication
groundwater pollution	Water pollution
sewage sludge disposal	Sewage disposal

(Note, however, that Sludge disposal is also a term)

6) Concepts represented by a multitude of Thesaurus keywords

a) Estuaries, Estuarine environment

b) Rain, Rainfall, Raindrops, Rain water, Drizzle, Impact (rainfall), Rainfall disposition, Rainfall intensity, Precipitation (atmospheric), Precipitation intensity, Excessive precipitation, Cloudbursts, etc.

c) Running waters, Lotic environment

d) Vegetation establishment, Revegetation

e) Weather data, Meteorological data

f) Conifers, Coniferous trees, Coniferous forests

g) Methodology, Analytical techniques, Testing, Testing procedures, Laboratory tests

h) Sediments, Sedimentation, Sediment transport, Bottom sediments, Coarse sediments, Lake sediments, Silts, Unconsolidated sediments, Sediment load, Suspended solids, Sediment distribution

i) Basins, River basins, Watersheds (basins)

j) Model studies, Mathematical models, Computer models, Simulation analysis, Hydraulic models, Theoretical analysis

k) Water pollution, Water quality, Water pollution sources, Water pollution effects, Waste water (pollution)

l) Water pollution control, Water quality control, Water pollution treatment, Pollution abatement

m) Sewage disposal, Waste water disposal, Waste disposal, Ultimate disposal, Waste dumps, Waste disposal wells, Sludge disposal

n) Sewage, Sewage effluents, Effluents, Industrial wastes, Municipal wastes, Solid wastes, Domestic wastes, Wastes, Sludge, Sewage sludge, Liquid wastes

o) Sewage treatment, Waste water treatment, Waste treatment, Treatment facilities, Sludge treatment, Sludge digestion

p) Planning, Long-term planning, Short-term planning, Future planning (projected), Alternate planning, Alternative planning, Comprehensive planning, Project planning

7) Hierarchical relationships - for best retrieval, use all appropriate narrower terms, as well as the broader classification.

For example, use: Fish, Bottom fish, Rough fish, Freshwater fish, Carp, Catfishes, Bullheads, etc.

also Scientific names -

8) Broad concepts - a broad concept such as "freshwater" is best searched by excluding ocean and marine terms.

9) Geographical considerations - expand geographical names and use all possible variations.

Example: Lake Tahoe, Lake Tahoe Basin, Tahoe Basin, Lake Tahoe (CA), Lake Tahoe (NV), Lake Tahoe (CA, NV), Lake Tahoe (NV, CA)

Also, abstracts keworded Lake Mendota (WI) will not necessarily be retrievable by the broader term Wisconsin.

SAMPLE SEARCHES - SELECTED WATER RESOURCES ABSTRACTS

2. DETECTION OF ARSENIC IN GROUNDWATER

Develop Concepts:

Arsenic Arsenic compounds Other arsenic terms Sodium arsenite	and	Groundwater Groundwater resources " basins " availability " movement Aquifers Base flow Surface-groundwater relationships 02F (groundwater) 04B (groundwater management)	and	Detection 05A (identification of pollutants)

SET	HISTORY	
SET	DESCRIPTOR	CIT
1	E1-E27	378
EXPAND	IT=Arsenic	
2	IT=Sodium arsenite	17
3	1+2	393
4	IT=Groundwater	6001
5	IT=Groundwater resources	1009
6	IT=Groundwater basins	458
7	IT=Groundwater availability	240
8	IT=Groundwater movement	2510
9	IT=Aquifers	2941
10	IT=Base flow	385
11	IT=Surface-groundwater relationships	847
12	4-11/or	9769
13	NC=02F	5217
14	NC=04B	5467
15	12 or 13 or 14	11,867
16	3 and 15	26
17	NC=05A	12,028
18	16 and 17	12

1. Use of recycled water (grey water) in homes or in agriculture. *WRA data base*

DIAGRAM

GREY WATER GRAY WATER GRAY WATER TREATMENT WATER REUSE RECLAIMED WATER	AND	DOMESTIC WATER IRRIGATION DRIP IRRIGATION IRRIGATION SYSTEMS ARID LANDS

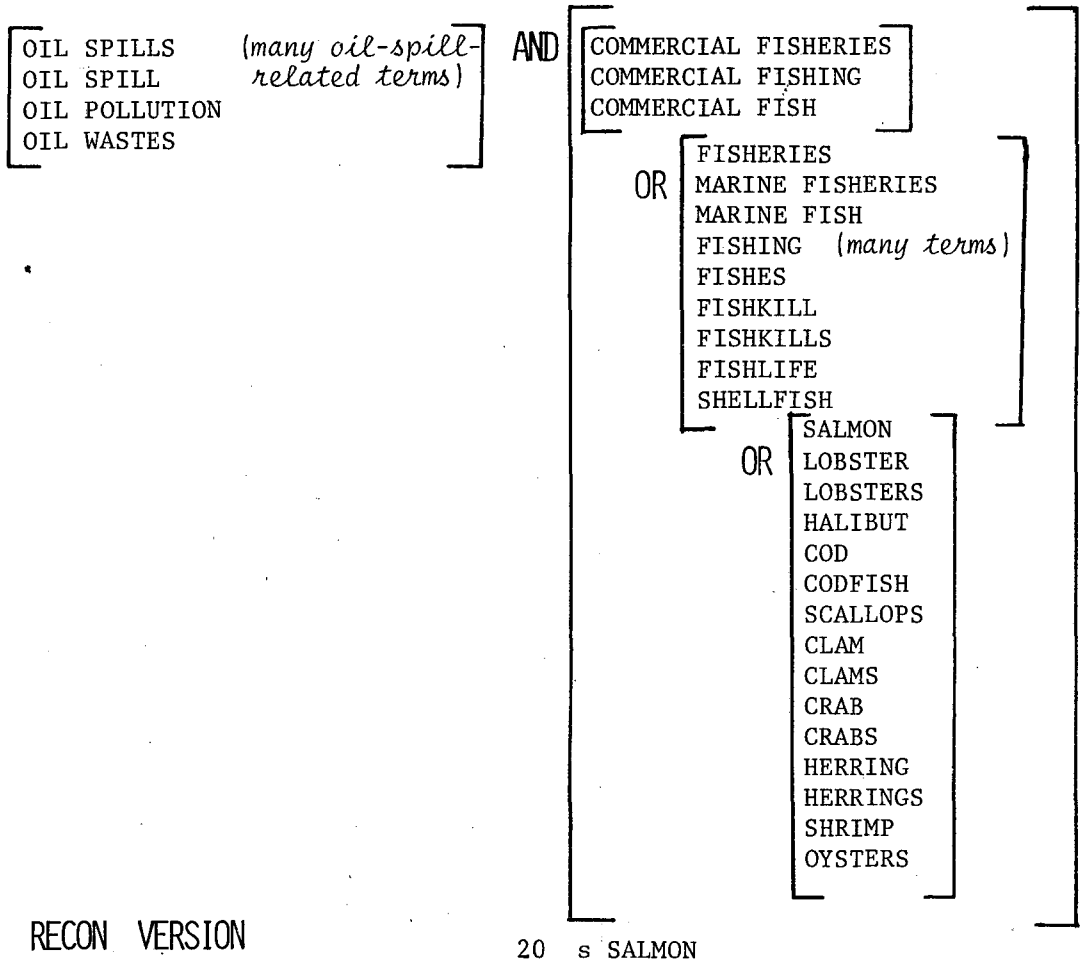
RECON VERSION

(This is a pearl-growing strategy: learning by doing!)

```
      e GREY WATER
1     s E6-E7
      e GRAY WATER
2     s E6-E7
3     c 1 or 2
      d 3;0;0    (Here the 5 citations retrieved under grey / gray water are viewed)
4     s DOMESTIC WATER      (Here appropriate terms are added)
5     s WATER REUSE
6     c 4 and 5    (Here the first retrieval, a good one, is made)
7     s IRRIGATION          (Here agricultural water terms are added)
8     s DRIP IRRIGATION
9     s IRRIGATION SYSTEMS
10    s ARID LANDS
11    c 7-10/or
12    c 5 and 11 not 6      (ANDing IRRIGATION and ARID LANDS terms with WATER REUSE)
13    s RECLAIMED WATER     (Another term picked up from viewing results)
14    c 13 and 11 not 6 not 12    (Third retrieval, NOT'ing previous ones)
```

3. Effect of oil spills on commercial fisheries *WRA data base*

DIAGRAM



RECON VERSION

```
    e OIL SPILLS
    0
1   s E5-E40
    e OIL SPILL
2   s E6-E40
3   s OIL POLLUTION
4   s OIL WASTES
5    c 1-4/or
6    s COMMERCIAL FISHERIES
7    s COMMERCIAL FISHING
8    s COMMERCIAL FISH
9    c 5 and 6 -8/or (print this set)
10   s MARINE FISHERIES
11   s MARINE FISH
12   s FISHES
13   s FISHING        (also other terms)
14   s FISHKILL
15   s FISHKILLS
16   s FISHLIFE
17   s SHELLFISH
18   s FISHERIES                (combine new set,
19   c 5 and 10-18/or not 9      excluding set 9.
                                 print this set)
20   s SALMON
21   s LOBSTERS      (though the WRSIC thesaurus gives
22   s LOBSTER        plural forms for these sea creatures,
23   s HALIBUT        almost all of them are also in the
24   s COD            data base a few times in singular
25   s CODFISH        form.  EXPAND is advised)
26   s SCALLOPS
27   s CLAM
28   s CLAMS
29   s CRAB
30   s CRABS
31   s HERRING
32   s HERRINGS
33   s SHRIMP
34   s OYSTERS
35   c 20-35/or
36   c 5 and 35                 (the retrieval from this set turns
       not 9 not 19              out to be strong in physiological
                                 studies of the uptake of hydro-
                                 carbons by the various creatures,
                                 while sets 9 and 18 are more
                                 focused towards fishing)
```

WRA

SOIL EROSION FROM LOGGING ROADS

```
      SET HISTORY (*=PRINTS, NPT=NO PRINTS)
      SET  DESCRIPTOR                  CIT
        1  IT=FOREST
            MANAGEMENT_________        598
        2  IT=LUMBERING_________       271
        3  IT=FOREST ROADS_____          4
        4  IT=LOGGING ROADS____          8
        5  IT=ROADS____________        421
        6  IT=ROAD
            CONSTRUCTION_______        350
        7  IT=EROSION__________       2892
        8  IT=SEDIMENT CONTROL         533
        9  IT=SEDIMENTS_________      4421
       10  IT=SEDIMENTATION____       3775
       11  IT=SOIL EROSION_____        920
       12  NC=02J______________       6513
       13  NC=04D______________       2251
       14  1-6/OR______________       1421
       15  14 AND (7-13/OR)____        343
       16  15/A,T/('LOGGING' +
            'LUMBER') * ('ROAD          51

ENTER:d 16/5/5
>PROCESSING<
DIS 16/5/000005-000005//5          PAGE  1
<ACCESSION NO.> 80R0004519
<HEADER> W80-04519
<TITLE> EFFECTS OF WOOD PRODUCTS
  HARVEST ON FOREST SOIL AND WATER
  RELATIONS
<AUTHOR> PATRIC, J. H.
<CORP AUTH> NORTHEASTERN FOREST
  EXPERIMENT STATION, PARSONS, WV.
  TIMBER AND WATERSHED LAB.
<PUB DESC> JOURNAL OF ENVIRONMENTAL
  QUALITY, VOL 9, NO 1, P 73-80,
  JANUARY-MARCH 1980. 4 FIG, 10 TAB, 31
  REF.
<COWRR CATEG.> FIELD 04C, 02J, 05B
<ABSTRACT> THE EFFECTS OF SILVICULTURAL
  TREATMENTS ON STREAMFLOW HAVE BEEN
  EVALUATED FOR 20 YEARS ON A 34.7-HA
  FORESTED CATCHMENT ON THE FERNOW
  EXPERIMENTAL FOREST, NEAR PARSONS, IN
  NORTH-CENTRAL WEST VIRGINIA.
```

```
?WRE  WATER RESOURCE RESEARCH
(12,843 RECORDS. RELOADED FILE 11/14/80)
  ' TEXT SEARCH ON TITLE + SUMMARY

AVAILABLE INDEXES INCLUDE:

TL= TITLE WORDS
SP= SPONSOR          IT= KEYWORDS
IV= INVESTIGATOR     ZP= ZIP CODE
LC= LOCATION         CT= CONTRACT OFFICER
RE= RESEARCH ORGANIZATION


FOR MORE INFORMATION CONTACT LOU LULICH
WATER RESOURCES INFORMATION CENTER
```

SAMPLE CITATION

```
DISPLAY 00X0012434/5                PAGE   1
<ACCESSION NO.> 00X0012434
<TITLE> WILLAMETTE RIVER BASIN LOW FLOW STUDY
<RESEARCH ORG> U.S. Dept. of the Interior/Geological
  Survey/Water Resources Div.
<RO COUNTRY> United States of America
<RO CITY> Portland
<RO STATE> Oregon
<SPONSOR> U.S. Dept. of the Interior/Geological
  Survey/Water Resources Div.
<SP CITY> Portland
<SP STATE> Oregon
<SP COUNTRY> United States of America
<FUND LEV> 00031623
<SUMMARY> Interpretation of a water-quality model, along
  with data collected in 1977, indicates the following: (1)
  there is currently no accurate way of predicting the
  Willamette biochemical-oxygen demand (BOD) load at river
  mile 86; (2) ammonia loads upstream from river mile 86
  need to be identified; (3) the relationship between
  dissolved oxygen (DO) and the two above-mentioned loads
  is needed to manage the river; (4) during 1977, there
```

were several violations of the minimal DO level; and (5) additional monitoring of algae is desired. The objective of the Willamette Basin low-flow study is to provide an understanding of the BOD and ammonia to DO relationship and existence of algae during the 1978 summer low-flow period. The scope of the study will include the Willamette River, the South Santiam River below Lebanon, and the Santiam River. Collect sufficient BOD, ammonia, and DO data during intensive synoptic sampling to extend the water-quality model upstream in the Willamette River. Collect periphyton and phytoplankton algal samples in the Willamette River and selected tributaries. Collect sufficient samples to determine DO levels, nitrification rates, and model needs. Provide training to cooperator staff to allow their use of the water-quality model. Completed intensive data collection. Commenced data reduction in preparation of use with model. Nitrification was found to be the cause of a stressed dissolved-oxygen situation in the South Santiam River. Calibrate and verify an extension of dissolved-oxygen model on Willamette River from Salem to Albany. Determine cause of DO problem on Santiam and South Santiam Rivers. Write report.

<ACCNO> ZUA 4915 1
<PROJECT NO> OR 78-090
<KEYWORDS> Oxygen;Ammonia;Phytoplankton;Periphyton;Algae; Metabolism;Biochemical Oxygen Demand;Sampling; Calibrations;Model Studies;Low Flow;Synoptic Analysis; Rivers;Asia;Streamflow;River Flow;River Basins;02E
<CONTRACT DATE> 7801
<COMPL DATE> 7909
<AWARD> A
<PRIN INV> McKenzie, S.W.
<PRIN INV> 02E

```
?EMI ENVIRONMENTAL MUTAGEN (EMIC)
     (33,388 ITEMS, RELOADED 9/28/80)

  THE ENVIRONMENTAL MUTAGEN INFORMATION
CENTER FILE, (EMI), CONTAINS INFORMATION
CONCERNING THE TESTING OF CHEMICALS FOR
MUTAGENICITY. THE CITATIONS ARE TAKEN
FROM PUBLISHED LITERATURE AND CONSIST
OF BIBLIOGRAPHIC CITATION AND SELECTED
KEYWORDS.
AVAILABLE SEARCH PREFIXES INCLUDE:
AU= AUTHOR(S)          IT= AGENT (CHEMICAL)
JO= JOURNAL CODEN      OB= TEST OBJECT
TI= TISSUE CULTURE     TA= TAXONOMIC NAME
RN= CHEMICAL ABSTRACTS REGISTRY NUMBER
PB= PUBLICATION        CT= CELL TYPE
SX= SEX TREATED        AS= ASSAY SYSTEM
PT= PUBL. TYPE         EX= EXPER. COND
IN= INDUCER            SO= SEC.SOURCE
LA= LANGUAGE           TL= TITLE WORDS
CONTACT: J.WASSOM FTS(624-7871)
COMMERCIAL (615)-574-7871
```

EMI

FIND REFERENCES ON DNA REPAIR

```
   SET HISTORY (*=PRINTS, NPT=NO PRINTS)
   SET  DESCRIPTOR                 CIT
     1  E6-E20_____________          770
EXPAND  AS=DNA REPAIR
     2  E6,E9______________         1733
EXPAND  TL=REPAIR
     3  TL=DNA_____________         5362
     4  2 AND 3____________         1213
     5  4-1________________          873
ENTER:
ENTER:d 1/6
>PROCESSING<
DIS  1/6/000001-000770//1
<ACCESSION NO.> 81B0041428     *******1
<TITLE> SYMPOSIUM ON DNA REPAIR AND
  MUTAGENESIS IN EUKARYOTES

<ACCESSION NO.> 81*0041398     *******2
<TITLE> MUTAGENIC PROPERTIES OF 5-MOP
  IN COMPARISON TO OTHER PSORALENS

<ACCESSION NO.> 81*0041392     *******3
<TITLE> COMBINED ACTION OF ARSENIC AND
  ETHYL METHANESULFONATE (EMS) IN
  SOMATIC AND GERM CELLS OF MICE

<ACCESSION NO.> 81*0041380     *******4
<TITLE> EFFECT OF CYTOSTATICS ON THE
  SURVIVAL OF MAMMALIAN CELLS GROWING
  IN VITRO

<ACCESSION NO.> 81*0041374     *******5
```

ERG

12 ERG

ENHANCED RECOVERY DATA BASE

1965 - 1978

```
BEGIN SESSION 0032--FILE 19 WAS SELECTED
?ERG ENHANCED OIL AND GAS RECOVERY(BERC)
  (CONTAINS 20,220 CITATIONS, 1965-1978)
TEXT SEARCH AVAILABLE ON TITLE(T)

 THIS SUBSET OF THE TUL DATA BASE HAS
BEEN ACQUIRED BY THE BARTLESVILLE ENERGY
TECHNOLOGY CENTER. DATES OF COVERAGE ARE
1965-1978.


INDEXES INCLUDE:
 IT= KEYWORDS        TL= TITLE WORDS
 AU= AUTHOR          SC= SUBJECT CATEGORY
 LA= LANGUAGE        PA= PATENT COUNTRY
 TY= ARTICLE TYPE    YR=YEAR ADDED TO FILE

ENTER ?TUL FOR MORE INFORMATION.



ENTER:"carbon dioxide injection
>PROCESSING<
  EXPAND  IT=CARBON DIOXIDE INJECTION
   REF  DESCRIPTOR                CIT   RT
   E01  IT=CARBON
         DEPOSITION________        14
   E02  IT=CARBON
         DEPOSITION/*______         1
   E03  IT=CARBON
         DEPOSITION/N______         4
   E04  IT=CARBON
         DEPOSITION/P______         4
   E05  IT=CARBON DIOXIDE__       452
  -E06  IT=CARBON DIOXIDE
         INJECTION_________       290
   E07  IT=CARBON DIOXIDE
         INJECTION/*_______       100
   E08  IT=CARBON DIOXIDE
         INJECTION/N_______        46
   E09  IT=CARBON DIOXIDE
         INJECTION/P_______        71
   E10  IT=CARBON DIOXIDE
         REMOVAL___________       80
```

```
ENTER:*e6
>PROCESSING<
    3     100 IT=CARBON DIOXIDE INJECTION/
ENTER:


      %3/3:0
>PROCESSING<
DIS  3/3/000001-000100//1
<ACCESSION NO.> 00*0257587
<TITLE> TERTIARY OIL RECOVERY BY CO2
  INJECTION. QUARTERLY REPORT,
  JANUARY-MARCH 1978

<ACCESSION NO.> 00*0255774
<TITLE> DETERMINATION AND PREDICTION OF
  CO2 MINIMUM MISCIBILITY PRESSURES

<ACCESSION NO.> 00*0255773
<TITLE> A TECHNIQUE FOR THE LABORATORY
  MEASUREMENT OF CARBON DIOXIDE UNIT
  DISPLACEMENT EFFICIENCY IN RESERVOIR
  ROCK

<ACCESSION NO.> 00*0255468
<TITLE> PROGRESS OF THE PILOT CARBON
  DIOXIDE FLOOD IN THE ROCK CREEK-BIG
  INJUN FIELD, ROANE COUNTY, WEST
  VIRGINIA
DIS  3/3/000001-000100//5
<ACCESSION NO.> 00*0255467
<TITLE> WEST VIRGINIA CO2 OIL RECOVERY
  PROJECT INTERIM REPORT

<ACCESSION NO.> 00*0255466
<TITLE> COST AND AVAILABILITY OF CARBON
  DIOXIDE FOR ENHANCED OIL RECOVERY

<ACCESSION NO.> 00*0255465
<TITLE> GRANNY'S CREEK CO2 INJECTION
  PROJECT, CLAY COUNTY, WEST VIRGINIA

<ACCESSION NO.> 00*0255464
<TITLE> A STUDY OF CO2 RECOVERY AND
  TERTIARY OIL PRODUCTION ENHANCEMENT
  IN THE LOS ANGELES BASIN

<ACCESSION NO.> 00*0255463
<TITLE> AVAILABILITY AND ECONOMICS OF
  CO2 FOR ENHANCED OIL RECOVERY IN
  APPALACHIA
```

13 RSI

```
?RSI  RADIATION SHIELDING INFORMATION
 (CONTAINS 8,469 RECORDS AS OF 1/14/80)
  TEXT SEARCH ON TITLE AND ABSTRACT

  THE OAK RIDGE NATIONAL LABORATORY
(ORNL) RADIATION SHIELDING INFORMATION
CENTER (RSIC) SHIELDING LITERATURE DATA
BASE CITES LITERATURE IN THE FIELD OF
RADIATION TRANSPORT, ANALYSIS AND
SHIELDING PUBLISHED SINCE ABOUT 1960.
  SHIELDING AGAINST NEUTRONS AND GAMMA
RAYS FROM NUCLEAR REACTORS,
RADIOISOTOPES, AND NUCLEAR WEAPONS
IS EMPHASIZED. IN MOST CASES,
ABSTRACTS ARE INCLUDED.
RSI SEARCH TERMS ARE:
IT= KEYWORDS      TL= TITLE WORDS
AU= AUTHOR        RP= REPORT
CN= RSIC CAT.NO. CE= CATEGORY W/EMPHASIS
THE RSI SUBJECT CATEGORY NUMBERS WITH
DEFINITIONS AND THE RSI KEYWORD LIST ARE

AVAILABLE FROM THE RADIATION SHIELDING
INFORMATION CENTER, OAK RIDGE NATIONAL
LABORATORY, P.O. BOX X, OAK RIDGE,
TENNESSEE 37830.  QUESTIONS MAY BE
ASKED BY TELEPHONE AT 615-574-6176 OR
FTS 624-6176.
```

14 ETI

```
?ETI ENVIRONMENTAL TERATOLOGY (ETIC)
  (18,111 ITEMS, RELOADED 2/4/80)
    TEXT SEARCH AVAILABLE ON TITLE
THE ENVIRONMENTAL TERATOLOGY INFORMATION
CENTER FILE, (ETI), CONTAINS INFORMATION
CONCERNING THE TESTING OF CHEMICALS FOR
TERATOGENICITY.  THE CITATIONS ARE
TAKEN FROM PUBLISHED LITERATURE AND
CONSIST OF BIBLIOGRAPHIC CITATION
AND SELECTED KEYWORDS.
AVAILABLE SEARCH PREFIXES INCLUDE:
TL= TITLE WORDS
AU= AUTHOR(S)        IT= AGENT (CHEMICAL)
LA= LANGUAGE         AS= ASSAY SYSTEM
JO= JOURNAL CODEN    OB= TEST OBJECT
TI= TISSUE CULTURE   TA= TAXONOMIC NAME
RN= CHEMICAL ABSTRACTS REGISTRY NUMBER
PB= PUBLICATION      PT= PUBLICATION TYPE
NOTE USE OF PARENTHESIZED NUMERIC
PREFIXES IN CHEMICAL NAMES WHEN YOU
EXPAND ON IT= (AGENT) ENTRIES.
CONTACT: J.WASSOM 624-0593
```

```
?CIM CENTRAL INVENTORY OF MODELS
 (CONTAINS 821 ITEMS AS OF 11/09/78)
TEXT SEARCH ON NAME AND ABSTRACT
THIS FILE IS AN INVENTORY OF ENERGY
RELATED BIBLIOGRAPHIC AND NUMERIC DATA
BASES, GRAPHICS PACKAGES, INTEGRATED
HARDWARE/SOFTWARE SYSTEMS, AND MODELS
FROM DEPARTMENT OF ENERGY LABORATORIES.
DATA INCLUDES DESCRIPTIONS OF SUBJECT
CONTENT,DOCUMENTATION,HARDWARE/SOFTWARE
INFORMATION AND MODELING INFORMATION.
  FOR FURTHER INFORMATION CONTACT:
    CAROLE SHRINER  ORNL BLDG. 2001
    COMM 615-574-7577  FTS 624-7577
AVAILABLE INDEXES INCLUDE:
  CL=MODEL CLASSIFICATION
  CP=COMPUTERS
  CT=CONTACT PERSON
  IT=KEYWORDS
  LB=LABORATORY
  TY=DATA TYPE
```

CIM

ARE THERE ANY COMPUTER GRAPHICS PACKAGES ON COAL RESERVES IN THE UNITED STATES?

```
  SET HISTORY (*=PRINTS, NPT=NO PRINTS)
  SET  DESCRIPTOR                CIT
    1  IT=COAL_____________        16
    2  IT=COAL RESERVES____         1
    3  TY=GRAPHICS_________        14
    4  TY=GRAPHICS PACKAGE          5
    5  (1 OR 2) AND (3 OR
        4 )_______________          1
ENTER:d 5/2/1-1
>PROCESSING<
DIS  5/2/000001-000001//1          PAGE  1
<ACCESSION NO.> 00*0000515
<NAME> CELLULAR COAL RESOURCE MODEL
<CONTACT> DURFEE, R.C.
<LABORATORY> ORNL
<PHONE> 615-483-8611 EXT 2-0106; FTS 850-0106
<ADDRESS> OAK RIDGE NATIONAL LABORATORY,P.O. BOX X
<CITY> OAK RIDGE
<STATE> TN
<ZIP CODE> 37830
<DOCUMENTATION> UNDER PREPARATION.  A RELATED DOCUMENT IS
  "TOWARDS AN AUTOMATED ASSESSMENT OF COAL RESERVES USING
  GEOLOGIC, ECONOMIC, AND ENVIRONMENTAL INPUTS," J.A.
  FABER, C.H. PETRICH, R.B. HONEA, AND R.C. DURFEE,
  PRESENTED TO EXPLORATION DATA SYNTHESIS RESEARCH
  CONFERENCE, BY AMERICAN ASSOCIATION OF PETROLEUM
  GEOLOGISTS, MARCH 28-30, 1977, TUSCON, ARIZONA.
<KEYWORDS> COAL RESERVES; COMPUTER GRAPHICS; TOPOLOGICAL
  MAPPING; MAPPING FIBRATION
```

CIM

ARE THERE ANY SIMULATION MODELS FOR ENERGY CONSERVATION IN RESIDENTIAL HOMES?

SET HISTORY (*=PRINTS, NPT=NO PRINTS)

SET	DESCRIPTOR	CIT
1	IT=ENERGY CONSERVATION	2
2	IT=ENERGY CONSUMPTION	21
3	IT=ENERGY ACCOUNTING	2
4	IT=RESIDENTIAL SECTOR	1
5	IT=RENTAL HOUSING	12
6	IT=HOUSEHOLDS	16
7	IT=HOUSES	1
8	IT=HOUSING	4
9	IT=HOUSING CHARACTERISTICS	35
10	CL=SIMULATION	99
11	(1-3/OR) AND (4-9/OR) AND 10	1

ENTER:d 11/2/1
>PROCESSING<
DIS 11/2/000001-000001//1 PAGE 1
<ACCESSION NO.> 00*0000762
<NAME> ORNL-ENGINEERING ECONOMIC MODEL OF RESIDENTIAL ENERGY USE
<CONTACT> HIRST, ERIC
<LABORATORY> ORNL
<PHONE> 615-483-8611 EXT 3-1326; FTS 850-1326
<ADDRESS> OAK RIDGE NATIONAL LABORATORY,ENERGY DIVISION,P.O. BOX X
<CITY> OAK RIDGE
<STATE> TN
<ZIP CODE> 37830
<DOCUMENTATION> E. HIRST AND J. CARNEY, "THE ORNL ENGINEERING-ECONOMIC MODEL OF RESIDENTIAL ENERGY USE," OAK RIDGE NATIONAL LABORATORY, ORNL/CON-24, JULY 1978; E. HIRST, "A MODEL OF RESIDENTIAL ENERGY USE," SIMULATION, 30(3), MARCH 1978.
<KEYWORDS> ECONOMETRICS; RESIDENTIAL SECTOR; ENERGY CONSUMPTION; ENERGY ACCOUNTING; ENERGY DEMAND; HOUSES; APPLIANCES

?NSR NUCLEAR STRUCTURE REFERENCE FILE
(59,714 ITEMS RELOADED NOV. 13, 1980)
TEXT SEARCH ON TITLE(T) AND KEYWORDS(A)
THE NSR FILE WAS CREATED BY THE NUCLEAR
DATA PROJECT PERSONNEL AT O.R.N.L. AND
USER QUESTIONS SHOULD BE ADDRESSED TO
W.B. EWBANK AT O.R.N.L.

THE AVAILABLE INDEX TERMS (IT=) ARE IN
A HIGHLY ABREVIATED FORM, SUCH AS:
IT=14C FOR CARBON 14
IT=(N,P) FOR NEUTRON-PROTON REACTIONS

AVAILABLE SEARCH PREFIXES INCLUDE:

AU= AUTHORS YR= SIGNIFICANT DATE
SU= TOPIC IT= INDEX TERMS
TL= TITLE WORDS
WE SUGGEST FORMAT 0 FOR DISPLAY & PRINT.

NOTE: IT= ENTRIES ARE LABELED IN THE
DISPLAYS AS SELECTORS:

- NSR

NUCLEAR STRUCTURE OF OXYGEN 20, 21, and 22

```
   SET HISTORY (*=PRINTS, NPT=NO PRINTS)
   SET  DESCRIPTOR                CIT
     1  SU=NUCLEAR
         STRUCTURE_________      5851
     2  IT=200_____________         55
     3  IT=210_____________         23
     4  IT=220_____________         33
     5  1 AND (2 OR 3 OR 4)         34
ENTER:d 5/2/1-4
>PROCESSING<
DIS  5/2/000001-000004//1          PAGE  1
<ACCESSION NO.> 80*0082096
<KEY NO> 79Ko29
<TITLE> CHAPTER VII. HARTREE-FOCK CALCULATIONS OF NUCLEAR
  BULK PROPERTIES WITH DENSITY- AND
  STARTING-ENERGY-DEPENDENT EFFECTIVE INTERACTION
<AUTHORS> KOHNO, M.; NAGATA, S.; YAMAGUCHI, N.
<CITATION> PROG.THEOR.PHYS.SUPPL NO.65, 200 (1979)
<TOPIC> NUCLEAR STRUCTURE
<CODEN> PTPKA No65 200
<SELECTORS> 12BE;16O;22O;40CA;48CA;CALCULATION

DIS  5/2/000001-000004//2          PAGE  1
<ACCESSION NO.> 80*0078824
<KEY NO> 78Na07
<TITLE> STUDY OF EXOTIC NUCLEI WITH THE SKYRME INTERACTION
<AUTHORS> NAYAK, R.; SATPATHY, L.
<CITATION> NUCL.PHYS. A304, 64 (1978)
<TOPIC> NUCLEAR STRUCTURE
<CODEN> NUPAB A304 64
<SELECTORS> 4HE;8HE;10HE;12C;14C;20C;22C;16O;22O;24O;28O;
  28SI;30SI;34SI;42SI;46SI;48SI;CALCULATION
```

NRC

```
BEGIN SESSION 0042--FILE 19 WAS SELECTED
?NRC National Referral Center Database
 (12,698 ITEMS. FILE RELOADED 8/29/81)
TEXT SEARCH ON NAMES(T) AND INTERESTS(A)
   This file, obtained from the National
Referral  Center  of  the  Library  of
Congress,  contains  the  self-approved
descriptions  of  organizations  qualified
and  willing  to  answer  questions  on
virtually  any  area  of  science  and
technology,  including  social  sciences.

   For further details on scope, content
and coverage, contact: Staffan Rosenborg
at FTS-287-5683 or (202)-287-5683.

AVAILABLE SEARCH PREFIXES INCLUDE:
TL= Organization names (single words)
NM= Organization names SP= Sponsor
IT= Keywords           CI= City
ST= State              ZP= Zip code
FA= Functional aspect  AA= Admin.aspect
Enter ?+ for more info.          * ?+
ENTER:
>PROCESSING<
 Page 2 of NRC file information

CODES FOR SPONSOR(SP) INDEX INCLUDE:
  FG Federal Government
  SG State Government
  LG Local Government
  OT Other
  NA Information not available
CODES FOR ADMIN.ASPECT(AA) INCLUDE THE
  ABOVE CODES PLUS THE FOLLOWING:
  CG Congressional
  LC Library of Congress
  OG Other government
  MI Military
  CU College or University
  OS Other school
  SO Society
  AS Association
  CO Commercial
  NI Non-profit institution
  IN Individual
Enter ?+ for more info.          * ?+, ?-
ENTER:
```

NRC

```
SET HISTORY (*=PRINTS, NPT=NO PRINTS)
SET  DESCRIPTOR                CIT
  1  CI=PITTSBURGH______        105
  2  IT=COAL
      LIQUEFACTION______         10
  3  1 AND 2____________         1

d 3/5

DIS  3/5/000001-000001//1          PAGE  1
<ACCESSION NO.> 00*0010113
<NAME(S)> Energy, Department of;
  Pittsburgh Energy Technology Center
  (PETC)
<ADDRESS> U.S. Department of Energy;
  P.O. Box 10940
<CITY> Pittsburgh,
<STATE> Pa.
<ZIP> 15236
<TELEPHONE> (412)  675-6122
<INTRODUCTION> PETC is developing new
  processes for producing clean energy
  from coal to solve long-term energy
  needs.  For immediate solutions,
  researchers are developing methods to
  make marginal coals available for
  pollution-free energy production.
  Much effort is devoted to new
  analytical tools and techniques to
  characterize coal products from
  energy conversion processing.
                                     -MORE-
ENTER: 0
DIS  3/5/000001-000001//1          PAGE  2
<INTERESTS> Coal gasification processes;
  coal liquefaction processes; coal
  preparation; physical and chemical
  desulfurization; coal combustion;
  coal chemicals; coal analysis;
  pollutant removal; coal-oil mixture
  combustion; conservation and
  environmental studies of coal
  conversion processes.  A part of
  DOE's project management, PETC plans,
  conducts, and directs R&D programs
  for converting coal in an
  environmentally-acceptable manner to
  clean-burning liquid fuels as well as
  conducting an extensive program on
  various aspects of coal conversion.
  This includes origination, planning,
  and coordination of processes
  developed by a wide variety of
  industrial firms, thereby providing
  an organized strategy wherein the
                                     -MORE-
```

20 RSC

21 EIS

```
?RSC RADIATION SHIELDING CODES (RSIC)
(CONTAINS 1,981 RECORDS AS OF 1/22/80)
    TEXT SEARCH AVAILABLE ON TITLE
 THE OAK RIDGE NATIONAL LABORATORY
(ORNL) RADIATION SHIELDING INFORMATION
CENTER (RSIC) DATA BASE CONTAINS
CITATIONS TO LITERATURE WHICH DESCRIBE
COMPUTER CODES DESIGNED TO DO RADIATION
ANALYSIS AND SHIELDING CALCULATIONS,
NEUTRON CROSS SECTION PROCESSING, AND
EXPERIMENTAL DATA ANALYSIS. MOST OF THIS
LITERATURE WAS PUBLISHED AFTER 1970.
RSC SEARCH TERMS ARE:
AU= AUTHOR                IT= KEYWORD
CN= COMPUTER CODE NAME CA= CORP AUTH.
CP= COMPUTER FOR WHICH THE CODE IS
    OPERABLE
TL= TITLE WORDS
NOTE: VOL.1=1972-73, VOL.2=1974-75
VOL.3=76-77,VOL.4=78,VOL.5=79, ETC.
   THE KEYWORD LIST FOR THE RSC FILE IS
AVAILABLE FROM THE RADIATION SHIELDING
INFORMATION CENTER, OAK RIDGE NATIONAL
LABORATORY, P.O. BOX X, OAK RIDGE,
TENNESSEE 37830.  QUESTIONS MAY BE
ASKED BY TELEPHONE AT 615-574-6176 OR
FTS 624-6176.
```

```
?EIS EPIDEMIOLOGY INFORMATION SYSTEM
    (5,194 ITEMS AS OF 3/30/80)
TEXT SEARCH ON TITLE AND ABSTRACT
 THE EPIDEMIOLOGY INFORMATION SYSTEM
BEING DEVELOPED BY THE TOXICOLOGY INFOR
MATION RESPONSE CENTER(TIRC) CONTAINS
EPIDEMIOLOGY, TOXICOLOGY, AND HEALTH
EFFECTS INFORMATION FROM THE PUBLISHED
LITERATURE AS WELL AS SOME UNPUBLISHED
MATERIAL. RECORDS CONSIST OF A BIBLIO
GRAPHIC CITATION WITH KEYWORDS AND/OR
ABSTRACT, CHEMICAL ABSTRACTS REGISTRY
NUMBERS, ABSTRACT SOURCE, AND LIBRARY
AVAILABILITY.
FOR FURTHER INFORMATION CONTACT:
    S.A.MASHBURN   ORNL BLDG.2024
    FTS(626-1756) COM(615-576-1756)

AVAILABLE INDEXES INCLUDE:
  AU=AUTHOR      IT=KEYWORDS
```

22 SLR

?SLR SOLAR DATA BASES (FRANKLIN INST.)
(3,192 ITEMS RELOADED 12/11/80)
THE SLR DATABASE IS MAINTAINED BY THE NATIONAL SOLAR HEATING AND COOLING INFORMATION CENTER. THE CENTER IS OPERATED BY THE FRANKLIN RESEARCH CENTER UNDER CONTRACT TO THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT IN COOPERATION WITH THE U.S.DEPARTMENT OF ENERGY.

AT PRESENT, THE DATABASE CONTAINS INFORMATION ABOUT THE COMMERCIALLY AVAILABLE ACTIVE AND PASSIVE SOLAR HEATING AND COOLING PRODUCTS MANUFACTURED BY U.S. FIRMS. MORE DETAILED INFORMATION ON SCOPE AND CONTENT IS AVAILABLE FROM:

LOUISE M. PARR
FRANKLIN RESEARCH CENTER
20TH & THE PARKWAY
PHILADELPHIA, PA 19103
(215)299-2629

AVAILABLE INDEXES INCLUDE:
PN=PRODUCT NUMBER
MN=MANUFACTURER NUMBER
IT=PRODUCTS (FROM MANUFACTURERS SECTION)
PR=PRODUCTS (FROM PRODUCTS SECTION)
ZP=ZIP CODE
ST=STATE
TL=PRODUCT TERMS
FOR TEXT SEARCH USE 'T' IN LOOKING FOR WORDS IN THE PRODUCTS FIELDS.

I AM LOOKING FOR A LOCAL MANUFACTURER OF SOLAR HOT WATER SYSTEMS FOR MY HOME. I LIVE IN ALLENTOWN.

```
ENTER:"zp=18105
>PROCESSING<
  EXPAND  ZP=18105
   REF   DESCRIPTOR                CIT    RT
   E01   ZP=17057_____________       1
   E02   ZP=17370_____________       1
   E03   ZP=17404_____________       1
   E04   ZP=17405_____________       1
   E05   ZP=18017_____________       1
  -E06   ZP=18105_____________
   E07   ZP=18901_____________       1
   E08   ZP=18940_____________       1
   E09   ZP=18974_____________       2
   E10   ZP=19007_____________       1
   E11   ZP=19014_____________       1
   E12   ZP=19047_____________       1
   E13   ZP=19052_____________       1
   E14   ZP=19057__
ENTER:#e5
>PROCESSING<

   1       1 ZP=18017
ENTER:

% 1
>PROCESSING<
DIS  1/2/000001-000001//1          PAGE  1
<ACCESSION NO.> 00*0000078
<TITLE> PRACTICAL SOLAR HEATING
<STREET> 2216 MONTGOMERY AVE
<CITY> BETHLEHEM
<STATE> PA
<ZIP CODE> 18017
<PHONE> (215)865-5646
<PRODUCTS> SPACE HEATING APPLICATIONS;
  DOMESTIC HOT WATER APPLICATIONS;
  SWIMMING POOL HEATING APPLICATIONS;
  LIQUID FLAT PLATE COLLECTORS;COMPLETE
  SYSTEMS-LIQUID;SOLAR
  CONTROLS-COMPONENTS
```

I LIVE IN OKLAHOMA, AND I AM THINKING OF HEATING MY SWIMMING POOL WITH SOLAR ENERGY. WHO MANUFACTURES SUCH A SYSTEM?

```
"swimming pools
>PROCESSING<.
  EXPAND  IT=SWIMMING POOLS
   REF   DESCRIPTOR                  CIT   RT
   E01   IT=STORAGE-AIR
          SYSTEMS (ROCK BED)          12
   E02   IT=STORAGE-PHASE
          CHANGE MATERIALS__          7
   E03   IT=SWIMMING POOL HE
         ATING APPLICATIONS_         195
  -E04   IT=SWIMMING POOLS__
   E05   IT=TESTING EQUIPMEN
         T FOR SOLAR SYSTEMS           3
   E06   IT=TOYS/NOVELTIES__           3
   E07   IT=TUBULAR
          COLLECTORS_____              9
   E08   IT=VENT/THERMAL
          CONTROL_______               3
   E09   IT=WINDOW
          COLLECTORS_____              6
   E10   ST=AL_________               7
   E11   ST=AZ_________              24
   E12   ST=CA_________             144
   E13   ST=CO_________              30
                                    -MORE-
ENTER:      #e3
>PROCESSING<
   2    195 IT=SWIMMING POOL HEATING APP
ENTER:
      "st=oklahoma
>PROCESSING<
  EXPAND  ST=OKLAHOMA
   REF   DESCRIPTOR                  CIT   RT
   E01   ST=NM_________               6
   E02   ST=NV_________               2
   E03   ST=NY_________              46
   E04   ST=OH_________              29
   E05   ST=OK_________               4
  -E06   ST=OKLAHOMA_____
   E07   ST=OR_________               2
   E08   ST=PA_________              26
ENTER:#e5
>PROCESSING<
   3        4 ST=OK
ENTER:#2#3
>PROCESSING<
   4       1 2#3
ENTER:

      %4
>PROCESSING<
DIS  4/2/000001-000001//1          PAGE  1
<ACCESSION NO.> 00#0000297
<TITLE> MCKIM SOLAR ENERGY SYSTEMS INC
<STREET> 2810 E 15TH ST
<CITY> TULSA
<STATE> OK
<ZIP CODE> 74104
<PHONE> (918)749-0096
<PRODUCTS> HEATING/COOLING APPLICATIONS:
  DOMESTIC HOT WATER APPLICATIONS:
  SWIMMING POOL HEATING APPLICATIONS:
  AIR FLAT PLATE COLLECTORS:LIQUID FLAT
  PLATE COLLECTORS:COMPLETE
  SYSTEMS-LIQUID:COMPLETE SYSTEMS-AIR:
  SPACE COOLING APPLICATIONS:SPACE
  HEATING APPLICATIONS
```

NES

```
BEGIN SESSION 0047--FILE 23 WAS SELECTED
?NES National Energy Software Center
  (628 ITEMS, RELOADED 6/13/81)
Argonne National Laboratory
9700 South Cass Avenue
Argonne, IL 60439
(312) 972-7250; FTS 972-7250
   This file contains the descrip-
tions of the software programs cur-
rently available from the National
Energy Software Center (NESC).
  The NES file contains selected items
from the software abstracts published
in the report ANL-7411 Revised.  The
items included are:
   NESC Number
   Name or desisnation of program
   KWIC Entry
   Distribution restriction
   Computers used
   Description of problem or function
   References
Enter ?+ to continue.          * ?+, ?-
```

NES

```
ENTER: ?+
>PROCESSING<
  NES continued                Page 2.
    Programming Languages used
    Subject category
    Keywords
    Method of solution
  A copy of the thesaurus used for
assigning keywords is contained in
ANL-7411 Revised and is available on
request from NESC.
  The NES database includes 5 indices
with which to search the file.
Indices include:
  PN=program name
  CP=computers used
  SC=subject category
  IT=keywords
  TL=kwic entry words
  In addition, the file may be searched
for a specific NESC number by using the
display command (%) with volume=0.  For
example, to display NESC No. 500
enter %0,500.                    * ?+, ?-
ENTER: ?+
```

```
>PROCESSING<
   NES continuation            Page 3.
When the LOOK command is used:
'T' searches the programming language
    item.
'A' searches the references item.
Enter ?LOOK for more information.
Enter ?CAT for a list of the NES
subject categories.
```

```
NES     ?CAT
          Followins is a description of the
        subject categories for the NES data-
        base.
         SC=          DESCRIPTION
          A     Cross Section and Resonance
                Integral Calculations
          B     Spectrum Calculations, Genera
                tion of Group Constants, Lat-
                tice and Cell Problems
          C     Static Design Studies
          D     Depletion, Fuel Management,
                Cost Analysis, and Power Plant
                Economics
          E     Space-Independent Kinetics
          F     Space-Time Kinetics, Coupled
                Neutronics-Hydrodynamics-
                Thermodynamics and Excursion
                Simulations
          G     Radiological Safety, Hazard and
                Accident Analysis
        Enter ?+ for continuation.      * ?+, ?-
        ENTER:?+
        >PROCESSING<
           CAT continued
          H     Heat Transfer and Fluid Flow
          I     Deformation and Stress Distri-
                bution Computations, Structural
                Analysis and Engineering Design
                Studies
          J     Gamma Heating and Shield Design
                Programs
          K     Reactor Systems Analysis
          L     Data Preparation
          M     Data Management
          N     Subsidiary Calculations
          O     Experimental Data Processing
          P     General Mathematical and Com-
                puting System Routines
          Q     Materials
          R     Environmental and Earth Sciences
          S     Space Sciences
          T     Electronics, Engineering Equip-
                ment, and Energy Systems Studies
          U     Chemistry
        Enter ?+ for continuation.      * ?+, ?-
        ENTER:?+
        >PROCESSING<
          CAT Continuation.
          V     Particle Accelerators and High
                Voltage Machines
          W     Physics
          X     Magnetic Fusion Research
          Y     Biology and Medicine
          Z     Data
```

NES

```
    SET HISTORY (*=PRINTS, NPT=NO PRINTS)
    SET  DESCRIPTOR                CIT
      1  IT=COMPUTER
           GRAPHICS_____________      35
      2  IT=STATISTICS________      28
      3  1 AND 2______________       6
      4  3/A/''H:FAUCETTE'____       1
ENTER: d 4/5
DIS  4/5/000001-000001//1          PAGE  1
<ACCESSION NO.> 00*0000624
<NESC NO.> 624
<PROGRAM ID.> GRAPH
<KWIC ENTRY> LINEAR REGRESSION
  W/CONFIDENCE LIMITS
<DISTRIBUTION> Unlimited Distribution
<COMPUTER> IBM360,370/195
<DESCRIPTION> This program calculates
  and graphs statistical results of
  experimental data.  It calculates the
  linear regression, correlation
  coefficients, the confidence
  intervals for 90-95-99 percent
  confidence that the next sample will
  be within the printed interval, the
  90 percent confidence interval that
  95 percent of the remaining
  population will be within, and the
  mean and standard deviation of each
  parameter. The program graphs these
  confidence intervals, the regression
                                    -MORE-

ENTER:0
>PROCESSING<
DIS  5/5/000001-000001//1          PAGE  2
  line and the experimental data to
  obtain a visual indication of
  correlation.  Input data is printed
  in tabular form and all dependent
  data are displayed against all
  independent data, one parameter at a
  time.
<REFERENCES>  Herman H. Faucette and
  W. J. Kirk, GRAPH - Regression Confid
  GRAPH, Bendix Corporation Computer
  Program Report, April 19, 1967.
<LANGUAGE> FORTRAN IV
<CATEGORY> P
<KEYWORDS> statistics; correlations;
  computer graphics
ENTER:
```

27 SER

28 SUP

?SER TIC Serial Titles

This file contains all the serial titles listed in TID-4579 and its supplements. The CODEN, coverage code, and country of publication code are included for each title. Comments on this file should be addressed to Dave E.Bost, Technical Information Center, Oak Ridge, TN; Telephone FTS 626-1155 and Commercial:615-576-1155.

AVAILABLE INDEXES INCLUDE:
TL=TITLE
CD=CODEN
CO=COUNTRY CODE
CV=COVERAGE CODE

?SUP TIC THESAURUS SUPPLEMENT
(Contains 881 Items, Test File)

This file lists the word blocks for all the descriptors added to the EDB Subject Thesaurus (DOE/TIC-7000-R4) since September 4, 1979. Comments should be addressed to Julia S. Redford, Technical Information Center, Oak Ridge, TN 37830. Telephone FTS:626-1157 or Commercial:615-576-1157.

INDEXES INCLUDE:
MT= MAIN TERM
DA= ENTRY DATE
BT= BROAD TERM
NT= NARROW TERM
RT= RELATED TERM

29 NTB

?NTB NASA Tech Brief File (NASA)
  (CONTAINS 3,964 ITEMS AS OF 9/15/80)
  The Technology Application Program of the National Aeronatics and Space Administration was established in 1962 to facilitate the transfer of technology and process developed in the space program to the public sector. Tech Briefs were proposed to facilitate this technology transfer. Condensed versions of the Briefs are contained in this file.

30 GID

AVAILABLE INDEXES INCLUDE:
AU= AUTHOR TL= TITLE
IT= KEYWORDS YM= PUBLICATION DATE
SC= SUBJECT CAT. CS= CORP.SOURCE
YR= PUBL. YEAR CN= CONTRACT NUMBER
RN= REPORT NUMBER
TEXT SEARCH ON TITLE AND ABSTRACT

?GID GOVT & INDUSTRY DATA EXCHANGE PGM

THIS IS A TEST FILE FROM
GIDEP OPERATIONS CENTER
CORONA, CALIFORNIA

AVAILABLE INDEXES INCLUDE:

AP=APPLICATION
DD=DOCUMENT DESIGNATOR
FC=FAILURE CAUSE
FM=FAILURE MODE
IT=KEYWORDS
MC=MAJOR CLASSIFICATION
MF=MANUFACTURER
PC=PROBLEM CATEGORY
SC=SUB CLASSIFICATION

USE ?+ TO DISPLAY THE DOCUMENT
DESIGNATORS DEFINITIONS IN THE DD INDEX

35 SEP

SEP

SAMPLE CITATION

```
BEGIN SESSION 0008--FILE 35 WAS SELECTED
?SEP  SEPARATIONS SCIENCE DATA BASE
(2,890 RECORDS. FILE RELOADED 10/29/81)
  This data base is designed specif-
ically for the storage and retrieval of
information needed in chemical separa-
tion problems.  Initial entries are
concerned primarily with solvent
extraction, ion exchange and related
fields.  Available indexes are:
AU=AUTHOR              SS=SEP. SYSTEM
TL=TITLE               IT=SEPARATED SUBST.
YR=DATE                SA=SEPARATION AGENT
LT=LITERATURE          MA=MATRIX
   TYPE                TI=TYPE OF INFO.
Each of the indexes in the right-hand
column contains index terms describing
information within that index name.
By selective use of combinations of
indexes and index terms, information
on specific separations under specific
conditions can be retrieved.
FOR MORE INFORMATION ENTER ?+    * ?+
```

```
ENTER: ?+
>PROCESSING<
  SEPARATIONS SCIENCE DATA BASE Page 2
In SEPARATED SUBST. index, substance
name is followed by notations giving
additional information about the
separation.  Name only indicates
substance is extracted (or retained
on column or filter) or that specific
info. on a separation not given.
Name -  = substance rejected
Name ,- = subst. optionally collected
          or rejected
Name +- = substance splits
Name?   = info. in doubt
Roman numerals indicate oxidation state.
Text search avail. on title and abst.
  For further information contact:
Separations Science Data Base
Bldg. 4500S, Mail Stop C-256
Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, TN 37830
(615) 574-6714, FTS 624-6714     *      ?-
```

```
ENTER: d 1/2
>PROCESSING<
DIS  1/2/000001-000001//1          PAGE  1
<ACCESSION NO.> 81*0001331
<AUTHOR> Jaycok, M.J.; Jones, A.D.
<TITLE> The Solvent Extraction of Metal
  Ions From Aqueous Solutions by
  Carboxylic Acids
<SOURCE> Solvent Extr. Chem., Proc.
  Int. Conf., Goteborg 1966, 160-7
<DATE> 1967
<ORGANIZATION> Loughborough Univ.,
  Loughborough, Engl.
<LITERATURE TYPE> Conference
<SEP. SYSTEM> Liquid-Liquid; Extraction
<SEPARATED SUBST.> Metal; Copper;
  Nickel
```

FRC

```
BEGIN SESSION 0009--FILE 36 WAS SELECTED
?FRC Fallout Records Centralization
(13,348 CITATIONS--AUGUST 17,1981)

TL=title words    IT=keywords
AU=author         YR=document year
ON=orig doc no    CS=orig agency
YM=doc yr/mo      LI=document type
CA=contributing agency
text search on title(T) and abstract(A)

The user should be aware of the peculi-
arities of the file in order to search
it accurately. Government report num-
bers include all dashes, slashes, and
spaces as they appear on the document.
This differs from regular RECON
practice. The year/month index should
be searched by entering the desired
parameters in the format YYMM.
However, when searching by year only,
precede the YY numerals with digits 19.
  ENTER ?+ FOR MORE              * ?+
ENTER: ?+
>PROCESSING<
FRC    page 2
In july 1981, the Nevada Operations
Office of the Department of Energy
opened the Coordination and Information
Center to the public. The center's pur-
pose is to identify and collect all
documents pertaining to off-site radio-
active fallout from the nuclear testing
program at the Nevada Test Site, consol-
idate them into a central repository,
and make them available to the public.
The collection includes correspondence,
original monitoring logs, strip charts,
maps, and government reports. In
addition, conference proceedings, con-
gressional hearings, journal articles,
and press releases have been included.
The CIC has also been designated by
the Department of Defense(DOD) as the
repository for all documents used or
produced by DOD's Nuclear Test
    ENTER ?+ FOR MORE          * ?+, ?-
```

FRC

SAMPLE CITATION

```
ENTER: ?+
>PROCESSING<
 FRC  page 3
Personnel Review Project. The center has
microfilm copies of the Public Health
Service's Archive on Effects of Nuclear
Weapons Testing on Health. Document col-
lection is a continuing process. It is
the center's goal to retrieve all rel-
evant documents from federal, state,
local, and private collections.

Inquiries should be addressed to:
   Richard V. Nutley
   United States Department of Energy
   Nevada Operations Office
   Post Office Box 14100
   Las Vegas, NV 89114
   PHONE (702) 734-3194

ENTER: d 1/3/1-3
>PROCESSING<
DIS  1/3/000001-000004//1
<ACCESSION NO.> 00*0009363     *******1
<TITLE> STRATOSPHERIC MONITORING
  PROGRAM SEMI-ANNUAL PROGRESS REPORT
  JULY 1962 - JAN. 1963
<AUTHOR> CRAVITT S;LILIENFELD P;FOLDES
  A;LIPPMANN M
<DATE> 630315
<ORIG DOC NO.> NYO9677
<CORPORATE SOURCE> DEL ELEC

<ACCESSION NO.> 00*0009362     *******2
<TITLE> STRATOSPHERIC MONITORING
  PROGRAM SEMI-ANNUAL PROGRESS REPORT
  MARCH 1964 - AUGUST 1964
<AUTHOR> CRAVITT S;LIPPMANN M;
  LILIENFELD P
<DATE> 641210
<ORIG DOC NO.> NYO-2363-2
<CORPORATE SOURCE> DEL ELEC

<ACCESSION NO.> 00*0009361     *******3
                                   -MORE-

DIS  1/3/000001-000004//3          CONT'D.
<TITLE> STRATOSPHERIC MONITORING
  PROGRAM SUMMARY PROGRESS REPORT FEB.
  1961- APRIL 1962
<AUTHOR> CRAVITT S;LILIENFELD P;WEBER H
<DATE> 620910
<ORIG DOC NO.> NYO 9675
<CORPORATE SOURCE> DEL ELEC
```

EIR

SAMPLE CITATION

```
BEGIN SESSION 0010--FILE 37 WAS SELECTED
?EIR ENERGY INFORMATION RESOURCES
 (1,150 ITEMS. FILE RELOADED 11/29/81)
EIR is a guide to the energy information
components of federal and state funded
organizations. It describes data bases,
publications, hotlines, and key informa
tion personnel within DOE HDQS, its
field offices, national labs and con
tractor organizations, and also for ener
gy programs within State Energy Offices
and Energy Extension Service Offices.

CONTACT: Joyce Finney - U. of Tennessee
 Energy, Environment, and Resources Ctr
 327 S. Stadium Hall Knoxville, TN 37916
 Phone: FTS 626-6770, Com 615-576-6770
Available INDEXES include:
GC=Geographic Coverage  SP=Sponsoring Ag
IT=Subject Descriptors  ST=State
NA=Personnel            TR=Type Record
NC=Numeric Category     TL=Title Words
OC=Record Number, Prefix

ENTER: d 1/5
>PROCESSING<
DIS  1/5/000001-000002//1          PAGE  1
<ACCESSION NO.> 00*0001350
<NUMBER> NCEES-01-01-02
<TYPE RECORD> EEP
<SPONSORING AG> Federal; Department of
  Energy
<PROGRAM> North Carolina Active Solar
<ORGANIZATION> North Carolina Energy
  Extension Service
  North Carolina Department of Commerce
  P.O. Box 25249
<ADDRESS> Raleigh, North Carolina 27611
<TELEPHONE> Commercial (919) 733-2230
<FUNDING AGENCY> North Carolina Energy
  Extension Service
<DESCRIPTION> The North Carolina Active
  Solar project, conducted by the North
  Carolina Residential Sector program
  [see NCEES-01-01], will provide
  services to North Carolina homeowners
  to assist in the fabrication and
  installation of their own hot water
                                    -MORE-
```

DIS 1/5/000001-000002//1 PAGE 2
systems. These services will be offered through twelve community colleges and through a series of two-day workshops. These institutional-educational workshops are based on the DOE-funded National Solar Water Heater Workshop Program located at Arizona State University. The specific goal of the workshop program is to offer instructional services to the twelve community colleges selected and provide them with the knowledge and instructional materials to offer and teach the workshop at their institutions. It is expected that there will be two workshops per month with approximately ten to twenty students per workshop with twelve community colleges teaching the course.
<PERSONNEL> Martha Hannon, Assistant
-MORE-

DIS 1/5/000001-000002//1 PAGE 3
Grants Manager, Commercial (919) 733-2230
<GEOGRAPHIC COV> State or Territory
<TARGET AUDIENCES> Homeowners
<SUBJECT DESCR> Energy Extension Service Programs; North Carolina; Solar Water Heating; Training; Households
<LIB LOAN SER> NA

38 CHT

CHT

```
BEGIN SESSION 0022--FILE 38 WAS SELECTED
?CHT    Chemicals Identified in Human
    Biological Media (3500 items)
LOOK COMMAND ON TITLE(T) AND COMMENT(A)
   The file contains bibliographic and
chemical information as well as reported
body burdens of drugs, metals,
pesticides, and other substances.  Also
includes comments on demography, health,
pathology.  Documents from world liter-
ature, 1974 to the present.  Sponsored
by EPA, NCI, and DOE.

AVAILABLE INDEXES INCLUDE:
AN=meas.technique LT=lit type
AU=author         NC=subject category
CA=Chem.Abst.name PD=publication date
CS=corp.source    RN=registry number
CH=chemical syn.  RT=route
FO=formula        SP=sponsor
IC=input code     TI=tissue
IT=descriptors    TL=title words
LA=language                    * ?+, ?-
```

CHT

SAMPLE CITATION

```
ENTER:d 1                                                    38 CHT
>PROCESSING<
DIS  1/2/000001-000008//1          PAGE  1
<ACCESSION NO.> 79J0002730
<TITLE> Death Associated with Nitrite
  Ingestion: Report of a Case
<AUTHOR> Standefer, J.C.; Jones, A.M.;
  Street, E.; Inserra, R.
<CORPAUTH> University of New Mexico
  School of Medicine, Office of the
  Medical Investigator, Albuquerque, NM
  87131
<PUB DESC> Journal of Forensic Sciences
  24(4):768-771
<PUB DATE> 1979
<PREFFERED NAME> Nitrous acid, sodium
  salt
<SYNONYMS> Anti-Rust; Erinitrit;
  Filmerine; Sodium nitrite; Synfat 1004
<REGISTRY NO> 7632-00-0
<FORMULA> H-N-O2.Na
<PROPERTIES> MW 69.01, MP 271 C, BP 320
  C (decomp)
<SOURCE> Na nitrite
                                          -MORE-
ENTER:0
>PROCESSING<
DIS  1/2/000001-000008//1          PAGE  2
<TISSUE> Stomach
<RANGE> Not given
<MEAN> 96 g/kg wet wt
<COMMENT> Autopsy 5 hr after death
  following ingestion of estimated 50 g
  Na nitrite.  Nitrate and nitrite
  salts are not detected in bile,
  vitreous humor or liver (detection
  limit - 0.20 mg/l).
<ANALYSIS> Colorimetry
<SEX> M
<ROUTE> Ingestion
<NO OF CASES> 1
<DEMOGRAPHY> 34-yr-old white male, 78
  kg.
<PATHOL-MORPHOL> Microscopy revealed
  congestion of vessels of the gastric
  mucosa, lungs, liver, spleen, and
  kidneys, and extravasation of
  erythrocytes of the gastric mucosa;
  90% of hemoglobin converted to
                                          -MORE-
ENTER:0
>PROCESSING<
DIS  1/2/000001-000008//1          PAGE  3
  methemoglobin.
<KEYWORDS> NITRATES; AUTOPSIES; CASE
  HISTORIES; HEMOGLOBINS; BILE; BLOOD;
  KIDNEYS; LIVER; MUSCLES; STOMACH;
  SUICIDE; NEW MEXICO
<SUBJECT AREA> Monitoring, Measurement
  and Analysis; Medical Aspects
```

EPD SAMPLE CITATION

```
BEGIN SESSION 0011--FILE 39 WAS SELECTED
?EPD Electric Power Data Base
(8,487 RECORDS. FILE RELOADED 11/24/81)

This file contains research and devel-
opment activities that are in progress
or have been recently completed on all
economic and technological aspects of
electric power.

SEARCH INDEXES INCLUDE:
NO=EPRI Acession#      TL=Project Title
PN=Utility Project#    CN=Contractors
FC=FERC Category       RS=Research Start
EC=EPRI Category          Date
RU=Reporting Utility   RC=Research Com-
CS=Cosponsors             pletion Date
PB=Publications        PF=Prior Years
IT=Major Descriptors      Funding
   (default)           CF=Current Year
MI=Minor Descriptors      Funding
FF=Future Years        TF=Total Funding
   Funding
ENTER: d 1/5


>PROCESSING<
DIS  1/5/000001-000003//1          PAGE  1
<ACCESSION NO.> 00*0124100
<DATE> 810507
<UTILITY PROJECT NUMBER> VEPC018800150
<TITLE> System Biological, Chemical,
  and Physical Investigations
<REPORTING UTILITY> Virginia Electric
  and Power Co.
<RESEARCH CORRESPONDENT> White, John C,
  Jr
<CORRESP TITLE> Supv., Biological
  Operations
<TEL> 8047713389
<DURATION> 700501
<DESCRIPTION> Vepco is conducting
  environmental surveys at several of
  its eleven electric generating
  stations or sites.  These surveys are
  designed to evaluate flora and fauna
  of estuarine, riverine, or lake
  waters which function as a water
  supply for once-through cooling.
                                   -MORE-
```

EPD

```
ENTER: 0
>PROCESSING<
DIS  1/5/000001-000003//1          PAGE  2
  Terrestrial flora and fauna are
  included in the studies where
  environmental stress might possibly
  be produced by off-stream cooling
  systems.  Included in the surveys are
  evaluations of the effects of thermal
  components from power generation on
  phytoplankton, zooplankton,
  ichthyoplankton, benthos, and nekton.
  In addition, intake structures and
  cooling systems are being evaluated
  to determine the effects of
  impingement and entrainment on
  populations subject to these
  particular stresses.  Chemical and
  physical data are collected at the
  time of biological sampling and used
  in the interpretation of the various
  findings.  (Included in the
  expenditures were two laboratory
  buildings constructed for R&D.).
                                     -MORE-
ENTER: 0
>PROCESSING<
DIS  1/5/000001-000003//1          PAGE  3
<MAJOR KEYWORDS> Environmental impact;
  Plankton; Thermal effluents
<MINOR KEYWORDS> Benthos; Entrainment;
  Phytoplankton; Zooplankton;
```

GEO

```
BEGIN SESSION 0021--FILE 40 WAS SELECTED
?GEO Geological and Geochemical Aspects
     of Uranium Deposits (ESIC/ORNL)

   Citations in this data base are from
the National Uranium Resource Evaluation
(NURE) Bibliographic Data Base. Emphasis
for this data base has been placed on
uranium geology, prospecting, uranium
reserves and resources, and applicable
uranium studies.
   Citations in GEO are dated 1875 to
1980, but 99% of them were created since
1944. To be updated annually, GEO
currently has 3,262 citations.
   For further assistance, contact...
      Evelyn Daniel
      Ecological Sciences Info. Cntr.
      Oak Ridge National Laboratory
      Oak Ridge, TN   37830
      (615) 574-7764  (FTS) 624-7765
For GEO index list, type '?+'
                                  * ?+
ENTER:?+
>PROCESSING<
   Field descriptors to be used when
searching GEO:
```

Descriptor	Prefix
Author	AU
Corporate Source	CS
Geoformational Desc.	GF,IT
Geographic Location	GD,IT
Keywords	KY,IT
Literature Type	LT
Publication Year	YR
Quadrangle Name	QN,IT
Subject Category	SC,IT
Taxonomic Identifiers	TX,IT
Title	TL

```
   The RECON 'look' command may be used
for searching both the titles as well as
the abstracts within citations.
```

GEO

SAMPLE CITATION

```
ENTER:d 1/5
>PROCESSING<
DIS  1/5/000001-000004//1          PAGE  1
<ACCESSION NO.> 54B0000446
<AUTHOR> Johnson, D.H.
<CORPAUTH> USGS, Denver, CO
<SPONSOR> AEC
<TITLE> Radiometric Prospecting and
  Assaying
<LIT TYPE> Book
<PUB DATE> 1954
<PUB DESCR> Nuclear Geology:  A
  Symposium on Nuclear Phenomena in the
  Earth Sciences, H. Faul (Ed.).  John
  Wiley and Sons, New York, (PP.
  219-241), 414 PP.
<SUBJECT CAT> Geochemistry
<KEYWORDS> PROSPECTING; CHEMICAL
  ANALYSIS; ABSORPTION; MAPPING;
  PETROLEUM; RADIOMETRY; METHODS;
  SORPTION; SURVEYS, GEOPHYSICAL
<ABSTRACT> Calibration and
  standardization of the Geiser-Muller
  and scintillation counters utilized
                                    -MORE-
ENTER:0
>PROCESSING<
DIS  1/5/000001-000004//1          PAGE  2
  for geophysical prospecting and the
  geometrical interferences of (1)
  solid-angle effects; (2) absorption
  by rocks; (3) absorption by air; (4)
  radioactive elements; and (5)
  contamination are discussed.  The
  counters are utilized in radiometric
  assaying, geologic mapping, and in
  exploration for new sources of
  petroleum.  (PAG)
<INPUT TEAM> ESIC, PAG
```

RECON PRACTICE SESSION I

TOPIC: Retrofitting of Solar heating in houses.

1. **Identify concepts.**

   This search has three concepts:

   SOLAR HEATING **HOUSES** **RETROFITTING**

   Expand & translate concepts; formulate logic

   [NC=140900 (Solar Radiation Utilization, includes solar space and water heating)] **AND** [HOUSES] **AND** [RETROFITTING]

3. **Perform the search.**

Explanation	**Directives**
Start your search with a short BEGIN.	b1
SELECT NC=140900	s nc=140900
SELECT HOUSES	s houses
COMBINE resulting sets using AND logic.	c 1 and 2
SELECT RETROFITTING, and COMBINE with above.	s retrofitting c 3 and 4
DISPLAY some citations in format 3	d 5/3
DISPLAY the sixth citation in format 7	d 5/7/6

RECON PRACTICE SESSION II

TOPIC: **Energy conservation in hospitals and supermarkets.**

1. **Identify concepts**

This search has two concept groups:

ENERGY CONSERVATION	**HOSPITALS**
	SUPERMARKETS

2. **Expand & translate concepts; formulate logic**

[ENERGY CONSERVATION] AND [HOSPITALS OR TL=SUPERMARKET OR TL=SUPERMARKETS]

3. **Perform the search.**

Explanation	**Directives**
Start your search with a long BEGIN.	*b* *your name* *supermarket search* *ß* *1*
SELECT ENERGY CONSERVATION	*s energy conservation*
SELECT HOSPITALS, TL=SUPERMARKET and TL=SUPERMARKETS using stacking	*s hospitals;s tl=supermarket$*
COMBINE	*c 1 and (2 or 3)*
DISPLAY results	*d 4*

RECON PRACTICE SESSION III

TOPIC: **Find all papers written by B. A. Smith**

Explanation	Directives
Do a short BEGIN	*b 1*
Use EXPAND command	*e au=smith, b.a.*
SELECT appropriate E-numbers	*s e5-e8*
DISPLAY results in format 3	*d 1/3*

TOPIC: **Determination of oxygen in steels by activation analysis (1978 articles).**

1. **Identify concepts; Expand & translate concepts; Formulate logic**

[OXYGEN] AND [STEELS] AND [ACTIVATION ANALYSIS OR NC=400101] [YR=1978]

2. **Perform the search.**

Explanation	Directives
Try the search using only descriptors	*b1* *1 s oxygen* *2 s steels* *3 s activation analysis* *4 s yr=1978* *5 c 1 and 2 and 3 and 4*
Try the search substituting the category 400101 for the descriptor ACTIVATION ANALYSIS	*6 s nc=400101*
COMBINE the results with OR logic	*7 c 1 and 2 and 4 and 6* *8 c 5 or 7*

EVALUATION QUESTIONNAIRE

Date_____

Department of Energy/RECON Training Workshop

Level of Experience (please check all that are applicable):

_____Experienced on DOE/RECON
_____Experienced on other systems
_____Little or no experience on DOE/RECON
_____Little or no experience on other systems

1. What did you expect to learn from this session? Were your expectations met?

2. Was this session useful?

3. What was most useful? Least useful?

4. What would you have done differently?

5. Comments

GENERAL WORKSHOP CONTENT

Taken as a whole, the workshop was:

too elementary 1 2 3 4 5 too advanced

Length of the workshop ☐ 2 days ☐ 2½ days
(Please check correct box)

too short 1 2 3 4 5 too long

The coverage was:

too theoretical 1 2 3 4 5 too practical

The level was:

too general 1 2 3 4 5 too specific

The content will be useful to me in my job:

not useful 1 2 3 4 5 very useful

Time allotted for question answering was:

too little 1 2 3 4 5 too much

Hands-on terminal experience was:

not useful 1 2 3 4 5 very useful