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WANL-TME-1974

October 15, 1969

Westinghouse Astronuclear Laboratory

GDP

GENERALIZED DOCUMENT PROCESSING

MASTER

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GENERALIZED DOCUMENT PROCESSING

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1.0 DESCRIPTION

Generalized Document Processing, GDP, is a Fortran IV program written for the CDC6600 computer. GDP is used to store and list information about a document including subject or title, references, abstracts, and key words. GDP is general in the scope of documents that may be treated and the type of information that may be recorded within three optional formats of document numbers.

1.1 ABSTRACTS AND INDEXES

There are three variables or indexes which may be described by the user and which provide sort options in GDP. In addition, different sorts by document number and date may be specified. Only the title or subject, date, and indexing variables are shown for the indexed listings. These abbreviated listings are referred to as the INDEXES. A more complete listing of each document may also be obtained and in sequence by document number including title, date, indexing variables, references and an abstract. The more complete listings are referred to as the ABSTRACTS. Thus the user may search the INDEXES for pertinent documents and then refer to the ABSTRACTS for a more complete description.

1.2 REVISING AND UPDATING

A document may be revised in GDP in the following ways, or both:

- (a) By attaching a revision suffix to the document number and recording the new information separately.
- (b) By revising the information already entered for a document.

The revision suffix would be used whenever it was important to retain past information, as for traceability. The revision suffix is an integral part of the document number. Therefore, revised document numbers appear in sequence after the main number when sorted by document number as in the ABSTRACTS.

GDP has extensive updating capabilities for changing information entered for a document and for adding or deleting documents. In summary, the updating features include:

- (a) Changes may be entered randomly without regard to the sequence of document numbers, or the sequence of information categories (i.e. title, references, abstracts, etc.) within a document.
- (b) Adding documents with as little information as it is desired to record at the time (i.e. only date, or only title, or only title and date, etc.).
- (c) Deleting a document entirely.
- (d) Deleting a document and then reentering new information all within the same update.
- (e) Changing any of the three indexing variables for a document.
- (f) Changing or deleting the title.
- (g) Changing or adding a row of document references or abstracts. Each row is numbered in sequence. The row of information may be altered by specifying the row number.
- (h) Adding a new key word or phrase for a document.
- (i) Deleting all key words and phrases for a document.
- (j) Deleting all key words and phrases for a document and adding a new set of key words and phrases, and all within the same update.
- (k) For checking purposes and upon option, a summary of the data input to the program as well as a print-out of the entire file.

1.3 KWIC FILES

An important feature of GDP is the creation of a document file in fixed format for input to the CDC6600 KWIC program¹. The KWIC program permutes on each record and

¹Pub. No. 60137700, Control Data Corporation, "6000 KWIC-APPLICATIONS DEVELOPMENT BULLETIN"

lists each record alphabetically beside each of its key words, thus the KWIC acronym meaning Key Word In Context. The user has several choices in GDP of the types of records for building the KWIC input file. They include title or document references or key words or any combination thereof. For instance, the user may generate a "random" listing of key words by using the title option. A keyword dictionary may then be derived from the random listing and a "controlled" set of key words entered, later, for each document. The keyword option may then be specified to produce a "controlled" keyword listing.

1.4 ACTIVITIES LISTINGS

Another useful feature of GDP is the specification of various activities or events and dates associated with a document such as date received, date completed, date cancelled, etc. GDP will make a condensed listing of the activities and their respective documents. There are three options for the activities listing. They include a listing by document number, by document date, or by date of the event. GDP produces the first two listings directly. GDP produces a KWIC input file for the listing by date of the event. The KWIC input file includes the date of the event, the type, and any event reference. The document date may, upon option, be substituted for the event date whenever the event date is missing or unknown.

The update portion of the program is written as a subroutine as is the KWIC index tape generator. The subroutines are named GDPUP and GDPKW respectively. The subroutine GDPUP is called in automatically whenever the "old" tape indicator is set. GDPUP is by-passed whenever there is no update but listings are to be generated.

A general flow diagram of GDP is shown in Figure 1.

Figure 1
GDP Overall Logic

2.0 SCOPE

2.1 APPLICATION

There are seven basic categories of information defined in GDP. They include:

- a. Indexing variables and document date.
- b. Title or description or subject.
- c. Special cross-referencing data.
- d. Activities and activity dates.
- e. Abstract or purpose or explanation.
- f. General document references.
- g. Key words and keyword phrases.

These category headings are listed as a guide to the kinds of information processed. However, they can form useful partitions for many classes of data as convenient to the user.

2.2 DOCUMENT NUMBERS

There are three basic kinds of document numbers that may be used. They will be referred to as the DRM, COR, and TES numbers. These symbols are used primarily to identify the structure of the document number. The user may substitute any other three characters to define his own file as explained in Section 3.1. The COR, DRM, and TES prefixes were respectively used for Correspondence, Data Release Memorandums, and Scope of Test documents. Examples of these documents are shown in Figures 2, 3 and 4.

A comparison of the three kinds of document numbers may be made as follows, where X signifies a digit and A signifies an alphanumeric character:

DRM	XXXXXA	ex.	DRM 51083C
COR	AA-XXXXX-X	ex.	COR IA-07103-9
TES	XXAA-XXX-A	ex.	TES 65DE-071-2

2.3 DRM NUMBER

The DRM number is the simplest type of number consisting of just five digits or less with a revision suffix of one alphanumeric character. The revision suffix could instead be used as a sixth digit to form a six digit number.

2.4 COR NUMBER

The COR number is prefixed with two alphanumeric characters. However, the two characters may not exceed eight distinct combinations in total. The user specifies for sorting purposes the sequential order of the prefix codes. The prefix code allows the categorizing of the document by the document number itself, as for example, IM = Incoming Mail, OM = Outgoing Mail, IT = Incoming Telegrams, OT = Outgoing Telegrams. The remainder of the COR number is the same as the DRM number except the revision character must be a number. Letters or blanks are not permitted. The revision character may be treated as the last digit of a six digit number but it will be hyphenated.

2.5 TES NUMBER

The TES number begins with two numbers which may be cross-referenced to an identifying list herein called the CEI list based on its original usage. The next two characters may be either letters or numbers which are cross-referenced by the user to two of the three indexing variables. Three digits and a revision suffix of one alphanumeric character completes the coding. The revision suffix could be treated as a fourth digit; however, it will be hyphenated.

SECURITY CLASS		DATA RELEASE MEMORANDUM Westinghouse Astronuclear Laboratory CODE IDENT NO. 14683 SHEET ____ OF ____				DRM NO 50000	REV (1) A
SUBJECT (120)						DRM TYPE (13) TEST RESULTS	
WIDGIT AREA HISTORY						DEPARTMENT (13) TFL	
						DATE (6)	REACTOR
						082959	R-1
PARA NO	CEI	PARA NO	CEI	PARA NO	CEI	TEST SCOPE NO	DATA ITEM
1. 3.1.1.1.6	64					64DT-212-0	1. T-119 2.
2.							3. 4.
3.							5. 6.
DOCUMENT REFERENCES (DWGNO/PART NO/COMPUTER CODES/DRMS/MTLS SPECS/CORRESPONDENCE)							
1. DRM-51328		2. CE-1251		3. DRM-51332		4. 5.	
6.		7.		8.		9. 10.	
1. PURPOSE 2. ASSUMPTIONS/METHODS 3. CONCLUSIONS (USE CONTINUATION SHEET IF NECESSARY)							
1. PURPOSE THE PURPOSE OF THIS DRM IS TO PRESENT AVERAGE WIDGIT AREA MEASUREMENT DATA TAKEN DURING THE ASSEMBLY OF 64DT-212-0 TEST MODEL, AFTER THE PHASE 1 AMBIENT GAS FLOW TESTS, AND AFTER THE FIRST THERMALIZATION CYCLE.							
APPROVALS PREPARED BY _____ DATE _____ APPROVED BY _____ DATE _____				INFORMATION CATEGORY CLASSIFICATION _____ AUTHORIZED CLASSIFIER _____ DATE _____		SECURITY CLASS <div style="height: 100px; border: 1px solid black;"></div>	

 WANL FORM NO. 59919A

Figure 4 - Data Release Memo

OA-09036

CM:PMF:0131
September 11, 1969

Mr. J. A. Doe
Administration
AGC Corporation
P. O. Box 00000
Sacramento, California 95813

Subject: NERVA Configuration Management Plan, WANL Supplement, WANL TME
1890, Data Item C-18

Dear Mr. Doe:

Forty copies of the subject plan are transmitted. This plan is the WANL Supplement to the NERVA Configuration Management Plan and details the procedures WANL will use to implement the NERVA Configuration Management Plan.

The supplemental plan is required by the statement of work for subcontract NP-1 Project 839, and responds to NERVA Data Item Description C-18.

AGC is requested to attach the WANL Supplement to the NERVA Configuration Management Plan and submit the package to SNPO. In accordance with previous agreements, thirty copies are provided for submission to SNPO. The remainder are for AGC use.

Respectfully,

J. A. Brown
Program Manager

SCOPE OF TEST FOR
MEASUREMENT OF VAPOR PRESSURE FOR PETROLATUM (U)

64DP-309-0

1. PURPOSE OF TEST (U)
 - A. To measure vapor pressure of petrolatum for subsequent determination of possible deleterious effects to the wrapper when bundled.
 - B. This effort is to obtain necessary data for the range of temperatures that would affect the requirement in Paragraphs 3.1.1.1.3, 3.1.1.1.6, and 3.1.1.1.7 of EC-677564.
2. REQUIRED TESTS (U)
 - A. Vapor pressure will be measured at the following temperature levels:
0-1000°R/250°, 1000°R-5000°R/500°.
3. REQUIRED TEST COMPLETION DATE (U)
 - A. Scheduled completion of tests is June 15, 1969.
4. DATA REQUIRED (U)
 - A. Vapor pressure as a function of temperature to establish a functional relationship.
5. HARDWARE REQUIRED (U)
 - A. Petrolatum, per PDS 30189-1, procured from Gulf Oil Corporation, available in the Physical Sciences Laboratory.

Figure 6 - Scope of Test

3.0 INPUT

3.1 DOCUMENT DATA CARDS

The formats for each category of information are very similar between the three classes of document numbers as shown in Figures 7, 8, and 9 for the COR, DRM, and TES formats. In fact, except for the document number and the first card, called the INDEX VARIABLES CARD, the formats are identical. Each card has an identifying card code in the first two columns. The next three columns contain an alphanumeric identifier for the type of document. The user may specify any three alphanumeric characters to name the file. The number format is selected by specifying the user's file name as a substitute for the COR, DRM, or TES names on the NUMBER FORMAT CARD and specifying the user's file name on the KIND CARD. For example, TMI may be the user's file name for a group of documents identified as Technical Memorandums, Internal. If the user wished to use the DRM number format, he would list the symbol TMI under the DRM field on the NUMBER FORMAT CARD. When updating the TMI file, he would list TMI under the KIND field on the KIND CARD. Information for each TMI would then be entered by the DRM format.

3.1.1 Indexing Variables Card

The Indexing Variables Card has the card code one. As shown in the appendix it contains the document date and all three indexing variables for the COR and DRM formats. The INDEXING VARIABLES CARD for the TES format does not have two of the three indexing variables since the two indexing variables are a part of the TES number itself. The DRM and COR formats have all three indexing variables. The document date is always entered in a month-day-year sequence, as for example, 061369 for June 13, 1969.

Each indexing variable is numbered from 1 to 3 for specifying the sequence of sorting for the INDEXES. The numbering sequence is determined by the field selected on the INDEXING VARIABLES CARD and varies between the COR, DRM, and TES formats. The sequence of sorting is specified by the user on the SORT SELECTION CARD, as for example, 030201 causes a major sort of the file by the third variable, and within the third variable by the second, and within the second by the first.

WESTINGHOUSE ASTRONUCLEAR LABORATORY

NAME	DATE	TITLE	PAGE OF
CORRESPONDENCE INDEXES			
01	01/06/69	AGC	DATA TRANS NERVA
02		DATE ORIGINATOR/IN RECEIVER/OUT	TYPE REACTOR
03	NERVA CONFIGURATION MANAGEMENT PLAN, WANL SUPPLEMENT, WANL TME 1890, DATA ITEM C-12		
SUBJECT			
05	091769 ACTION JONES-RA		
	EXPECT ACTION DESIGNATOR PERSON'S NAME COMPL. I.E., ACTION OR REPLY TAN		
06	(NP-1 PROJECT 839) (CM-PMF-0131)		
10			
19			
DOCUMENT REFERENCES			
20	AGC IS REQUESTED TO ATTACH THE WANL SUPPLEMENT TO THE NERVA CONFIGURATION PLAN + SUBMIT THE PACKAGE TO SNPO.		
21			
27			
ABSTRACT			
98	KEYWORD OR PHRASE		

FORM WANL 1030

Figure 7

WESTINGHOUSE ASTRONUCLEAR LABORATORY

NAME	DATE	TITLE	PAGE	OF
DRM FORMAT				
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52	53	54	55
56	57	58	59	60
61	62	63	64	65
66	67	68	69	70
71	72	73	74	75
76	77	78	79	80
<div> <div>1</div> <div>DRM50000A</div> <div>TEST RESULTS TEL</div> <div>082763R-1</div> <div>T-1193-52</div> <div>S-54</div> </div>				
<div> <div>REV</div> <div>TYPE</div> <div>DEPT</div> <div>DATE</div> <div>REACTOR</div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> </div>				
DATA ITEMS				
MIDGIT AREA HISTORY				
SUBJECT				
643.1.1.1.6				
SPEC. PARAGRAPH NO.				
LAST TWO DIGITS OF CEI				
RESULTS 64DT-212-0				
ACTION TEST DOCUMENT NO.				
(DRM-51328) (CE-1251) (DRM-51332)				
DOCUMENT REFERENCES				
TO PRESENT AVERAGE MIDGIT AREA MEASUREMENT DATA				
ABSTRACT				
KEYWORDS OR PHRASES				

FORM WNL 1030

Figure 8

WESTINGHOUSE ASTRONUCLEAR LABORATORY

NAME	DATE	TITLE	PAGE OF
TES FORMAT			
1	TES64DP-300-0	052060NERVA	
	TL YA PB E	DATE REACTOR ISSUED	
	TEST SCOPE NO. EXCLUDING M PREFIX		
2	MEASUREMENT OF VAPOR PRESSURE FOR PETROLATUM		
4	SUBJECT		
	643.1.1.1.6		
	SPEC. PARAGRAPH NO.		
	LAST TWO DIGITS OF CEI		
5	061569REQD	SMITH-JW	
	ACTION TYPE OF DATE ACTION	ACTION DOCUMENT OR PROGRAM EVENT	
6	(PDS 30189-1)		
	DOCUMENT REFERENCES		
20	TEST TO DETERMINE POSSIBLE DELETERIOUS EFFECTS TO WRAPPER		
	ABSTRACT		
98	KEYWORD OR PHRASE		

FORM HANL 1030

Figure 9

Each indexing variable has a table of names assigned by the user as shown on the INDEX VARIABLE TABLES. The names entered on the INDEXING VARIABLES card must correspond with the abbreviated names entered in the tables. If a foreign name is entered, the program will always take the first name in the table. For this reason the first table name should be labeled as blank, NONE, MISSING, or some such descriptor.

The first two indexing variables may contain up to thirteen characters for both of the DRM and COR formats. The TES format is limited to one character each which is a part of the document number itself. The third variable is limited to seven characters for all three formats.

3.1.2 Title Card

The TITLE CARD is numbered 2 or 3 with sixty columns for entering literal data. If more than two cards are required, the additional cards are numbered 3 for a maximum of nine cards in total.

3.1.3 Special Data Card

The SPECIAL DATA CARD is numbered 4. This card is used to enter literal data of up to 20 characters and classified by a two digit codes called the CEI number because of its original use. The user describes the meaning of each CEI number in the CEI TABLE. The CEI description will be shown in the ABSTRACTS for each CEI number referenced on the SPECIAL DATA CARD. The description in the ABSTRACTS will be listed only a single time even though the CEI number is repeated on several SPECIAL DATA CARDS. If a foreign CEI number is entered, it will be ignored.

The first two digits of the TES document number may be cross-referenced to the CEI numbers by simply listing the two digits as a CEI number in the CEI table.

3.1.4 Activities Card

The ACTIVITIES CARD has the card code number 5. Multiple entries may be made. The card code 5 is repeated for each entry. Three kinds of data are entered for each

activity which include the date of the activity, the name of the activity, and an activity reference.

The date of the activity is entered in month-day-year sequence as, for example, 110569 for November 5, 1969, or, it may be left blank.

The activity name must be one of the names specified by the user in the ACTIVITIES TABLES. The user also describes each activity in the ACTIVITIES TABLES. The activity description is printed in the ABSTRACTS in place of the activity name. The ACTIVITY INDEXES show the activity name.

The activity reference may contain any alphanumeric data. Some structuring of the reference may increase its effectiveness particularly for the KWIC activities listings. For instance, if the activity reference were a person's name as for a correspondence file, the convention of showing the last name first might provide a more useful sort by persons name in the KWIC program, as for example, JOHN A SMITH might be listed as SMITH-JA.

3.1.5 Document References Card

The DOCUMENT REFERENCES CARD begins with the card code 6 and is numbered consecutively for each additional card entry up to number 19. Therefore, as many as fourteen cards may be entered for one document. Any alphanumeric information may be entered. The OPTIONS CARD allows the user to build a document reference tape for input to the KWIC program.

3.1.6 Abstract Card

The ABSTRACT CARD begins with the card code 20 and continues to number 97 inclusive. Therefore, as many as seventy-eight cards may be entered for one document. Any alphanumeric information may be entered. The "purpose" or "summary" may be substituted for the abstract. The author found the first two or three sentences of a letter to be usually most descriptive for technical correspondence. The ABSTRACT information is listed only in the ABSTRACTS.

3.1.7 Keyword/Phrase Card

The KEYWORD/PHRASE CARD has the card code 98. There may be multiple card entries for each document and the card code 98 is repeated for each card entry. Any alphanumeric information may be entered. The OPTIONS CARD has a KWIC input tape option for the KEYWORD/PHRASE information.

4.0 UPDATING

4.1 DOCUMENT DELETION

Special use is made of the TITLE CARD for deletion of a document. That is any document may be deleted from the file by simply entering a number two card with four nines punched in the first four columns of the title field. If desired, the document may also be reentered in the same update with new information. Input for reentry is prepared as for normal input including the TITLE CARD.

4.2 INDEXING VARIABLES CARD

Any of the three indexing variables may be changed by simply entering the new information with an INDEXING VARIABLES CARD. The fields for the indexing variables that do not change are left blank. The second and third characters of the TES number are cross-referenced to two of the three indexing variables. These TES characters may be changed since they are not taken internally as an integral part of the TES number. However, they must always be entered as an integral part of the number.

4.3 TITLE CARD

As explained in 4.1, the TITLE CARD is used to delete a document across the board. However, just the title may be deleted by entering a number two card with the title field all blank. As before, a new title may be reentered. However, deletion and reentry is not necessary for changing the title. To change the titles, simply enter the new information as for the initial input.

4.4 SPECIAL DATA CARD

Multiple entries of the SPECIAL DATA CARD, card number four, may be made for a single document. The entries are added to the file and may neither be changed nor deleted.

4.5 ACTIVITIES CARD

Multiple entries of the ACTIVITIES CARD, card number five, may be made for a single document. New entries may be added to the file. Old entries may be deleted but not changed. That is a change must be made by deleting and reentering.

Deletions are made by matching on each field of the ACTIVITIES CARD and that is, date, event, and reference. If all three fields match, the old entry is deleted. A deletion will be made for every complete match.

Deletions may also be made within a single document by just date or just event or just reference or any combination thereof. Enter four nines (9999) in the first four columns of each field to be ignored in the matching process. A card with four nines entered in each of the three fields will cause all the old entries to be deleted. New entries may also be made at the same time.

4.6 DOCUMENT REFERENCES CARD

The document references may be changed by entering new information by row number. The row number is the original card code number from six (06) through nineteen (19). The row number can be obtained from a printout of the file that can be made as an option on the OPTIONS CARD. A match on row number replaces that row with the new information entered for the document. No match adds the new row of information to the file.

4.7 ABSTRACT CARD

The abstracts may be changed in the same manner as described in the 4.6 above for Document References. The row number for the ABSTRACT CARDS varies from twenty (20) through ninety-seven (97).

4.8 KEYWORD/PHRASE CARD

The number 98 card enters new keywords to the file. New entries are added at the beginning of the list and the old entries at the bottom. If one of the new entries has four nines (9999), punched in the first four columns of the keyword/phrase field, then all the old entries will be deleted for the document.

5.0 OUTPUT

5.1 OPTIONS

The OUTPUT OPTIONS CARD shown in the appendix allows the user to choose any of the following types of output:

- a. Printed Listings in any combination of the following:
 - (1) Abstract Listings
 - (2) Index Listings
 - (3) Activities Listings
- b. Input Tape for KWIC program of any of the following:
 - (1) Titles
 - (2) Activities
 - (3) Document References
 - (4) Key Word/Phrase

The file may be updated without producing any listings or listings may be produced without a file update or both an update and listings may be made.

5.2 PRINTED LISTINGS

Examples of the ABSTRACTS, INDEXES, and ACTIVITIES listings are shown in Appendix B.

The ABSTRACTS are always listed first and in sequence by the document number. Only one listing (or more) may be made for each run. The ABSTRACTS show the document number, the indexing variables, the document date, title, activities, and the abstract.

The INDEXES show the document number, the indexing variables, the document date, and title. The indexes may be sorted by any combination of the three indexing variables as specified on the OUTPUT OPTIONS card. The INDEXES may also be sorted by document number and within the document number by the first indexing variable. A sort by document date may also be specified.

The ACTIVITIES listings show a condensed summary of all the document's activities sorted by document number or sorted by document date. For the latter sort, the option by document date must be exercised for the INDEXES, as well. The ACTIVITIES listed by document number will follow the ABSTRACTS. The ACTIVITIES listing by document date will precede each of the Index listings by document date.

5.3 FILE PRINT-OUT

An INPUT SUMMARY is always shown, if there is any input, at the head of the output stream. Various MESSAGES as shown in Section 7.0 may then be listed. A listing of the file may be made after updating and whether there is an update or not. The first options card allows the user to print out the updated file. Appendix B shows an example of the INPUT SUMMARY and FILE UPDATE LISTINGS.

5.4 KWIC INPUT TAPE

The GDPKW subroutine writes one-hundred-forty (COR & TES) and one-hundred-thirty (DRM) character records to the KWIC tape for each document. These records are formatted the same for each of the Titles, References, and Key Word options. The Activities records are the same in length but differ after the document number field. The LONGBCD job control card must be used in building the KWIC file for COR and TES formats and when running the KWIC program on these files. The formats are shown in the following sections.

5.4.1 COR and TES KWIC Tape Records

<u>Columns</u>	<u>Data</u>
1	Blank
2-11	Document Number
12-133	Title, References or Keywords
134-140	Index Variable Three
or	

Columns

12-29
30-49
50-57
58-140
or
12-29
30-37
38-57
58-140

Data

Activity date
Activity reference
Activity type
Blank

} COR

Activity date
Activity reference
Activity type
Blank

} TES

5.4.2 DRM KWIC Tape Records

Columns

1
2-7
6-123
124-130
or
8-25
26-33
34-53
53-130

Data

Blank
Document number
Title, References or Keywords
Index Variable Three

Activity date
Activity type
Activity reference
Blank

6.0 PROGRAM CONSIDERATIONS

6.1 LIMITATIONS

The present dimension of the program requires at least a 64K computer. However, to change the size of the program the **DIMENSION** statement in the main program and each subroutine can be altered for the **NDRM**, **POINT**, and **LIST** variables. The dimension for **NDRM** and **POINT** must always agree. They set the maximum number of documents that can be handled in the input stream or listed from the file. The present limitation is 1500. The **LIST** variable sets a maximum on the number of words that can be handled for the documents entered or listed from the file. The present limitation is 30000 or an average of 20 words per document based on the 1500 limitation. These limitations are only limitations to the input or output. The number of file entries is only limited to as many as may be stored on the tape.

Other limitations based on present dimensions include:

- (1) A maximum of twenty different types of **ACTIVITIES**
- (2) A maximum of fifty different types for **INDEXING VARIABLE ONE**
- (3) A maximum of fifty different types for **INDEXING VARIABLE TWO**
- (4) A maximum of one-hundred different types for **INDEXING VARIABLE THREE**
- (5) A maximum of fifty different types of **CEI** numbers.

The following limitations apply to a single document:

- (1) A maximum of one, number one card. If more than one is entered the first entry will be accepted and succeeding entries rejected.
- (2) Up to nine in total of number two and three cards (**TITLE**). However, if more than two are entered, there is no guarantee that they will remain in sequence.
- (3) Up to ninety-nine number four cards (**SPECIAL**).
- (4) Up to ninety-nine number five cards (**ACTIVITIES**).
- (5) Up to fourteen **REFERENCES** cards numbered from six through nineteen.
- (6) Up to seventy-eight **ABSTRACTS** cards numbered from twenty through ninety-seven.

(7) Up to ninety-nine number ninety-eight cards (KEYWORDS).

The number ninety-nine card is used to signify the end of the data input. One ninety-nine card is placed at the end of all the data entered. See the **INPUT STREAM** in the Appendix.

6.2 FILE MAINTENANCE

GDP maintains the data base in document number sequence. The KWIC input tape is generated at the users request. That is, GDP does not maintain the KWIC input tape. If an updated version is required, the KWIC input tape must be re-generated. The formats for the generated KWIC tape is shown in Section 5.4.1.

7.0 MESSAGES AND ACTION

- (1) Input exceeds 1500, last card accepted was (prints out data on card).
ACTION - Must re-submit those cards that weren't processed.
- (2) List exceeds 30000.
ACTION - Increase the size of the LIST dimension or split the file into two or more files. For example, the abstract entries may be written to a separate file.
- (3) Number of cards of input
ACTION - Statistics
- (4) Input Summary
ACTION - Used for checking purposes
- (5) Completed Phase I
ACTION - None. Input is in core ready for processing.
- (6) More than one No. 1 Card for (document number).
ACTION - Check and see why more than one card was entered and if correct one was accepted.
- (7) No. of documents entered
ACTION - Statistics
- (8) No. of documents on file
ACTION - Statistics
- (9) Tried to delete item not on file for (document number).
ACTION - Check
- (10) Deleted (Activity) For (document number).
ACTION - Check
- (11) Error in sort spec.
ACTION - Sort specification for the Index listings is incorrect. Correct SORT SPECIFICATION card and resubmit.

8.0 FUTURE EXPANSION

The following modifications to GDP are planned:

(1) Handling of multiple types of documents in the same input stream and on the same file.

This can be accomplished by tagging each document entry with the three character code (i.e., COR, DRM, TES, TMI, etc.) of each document. The document code is already a part of each input format.

(2) Generalized document number specified by the user. In the coding used by GDP one character is equivalent to two numbers. Since the internal coding for a document number is limited to seven numbers, the document number could be constructed in any combinations of:

3 characters and No digits

3 characters and 1 digit

2 characters and 3 digits

1 character and 5 digits

No characters and 7 digits

APPENDIX A

INPUT FORMATS AND SAMPLE

INPUT STREAM
A-1

1.) TAPE INDICATOR AND FILE PRINT-OUT OPTION.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

PRINT-OUT ACTIVE FILE AFTER UPDATING. 00=NO. 01=YES.
 LIST FROM OLD TAPE. 00=NO. 01=YES (IF YES SET OLD TAPE IND TO ZERO. REQUEST TAPE 9 AS OLD.)
 OLD TAPE INDICATOR. 00=NONE. 01=YES.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

2.) NUMBER FORMAT CARD

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

TWO-CHARACTER PREFIXES WILL BE SEQUENCED AS NUMBERED.
 TES INDEX VARIABLE 2 CODES. LIMITED TO 3 SINGLE CHARACTER CODES. MUST USE SAME CHARACTER ON TABLES CARD.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

3.) KIND CARD

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

THREE-CHARACTER FILE DESIGNATION. MUST AGREE WITH NUMBER FORMAT CARD.
 ALPHANUMERIC AS FOR EX. MARCH 15, 1980.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

[illegible]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

5) OUTPUT OPTIONS CARD 1

A = ABSTRACT LISTING. 00= NO. 01= YES.

B = BUILD TITLES ON KWIC TAPE. 00= NO. 01= YES.

C = BUILD KEYWORDS ON KWIC TAPE. 00= NO. 01= YES.

D = BUILD REFERENCES ON KWIC TAPE. 00= NO. 01= YES.

E = ACTIVITIES LISTING. 00= NO. 01= YES BY DOC. NUMBER. 02= YES BY DOC. DATE SUBSTITUTION

F = ACTIVITIES ON KWIC TAPE. 00= NO. 01 OR 02= YES AS FOR E.

[illegible]

[illegible]

10) INDEX VARIABLE 2 TABLE - FIVE VARIABLES PER CARD. UP TO 50 VARIABLES.
LAST FIELD MUST HAVE 99 FOR 2 DIGIT SEQUENCE NO.

2 DIGIT SEQUENCE NO. NAME (ALPHANUMERIC)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

11) INDEX VARIABLE 1 TABLE - ONE VARIABLE PER CARD. UP TO 50 VARIABLES.
LAST CARD MUST HAVE 999 FOR 3 DIGIT SEQUENCE NO.

3 DIGIT SEQUENCE NO. NAME (ALPHANUMERIC) DESCRIPTION (ALPHANUMERIC)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

ONLY COLUMN 7 IS USED FOR TES FORMAT. IT CONTAINS SINGLE CHARACTER USED IN TES NUMBER AND AS DEFINED ON NUMBER FORMAT FIELD. (SEE NO. 2 FORMAT OF A-2).

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

12) INDEX VARIABLE 3 TABLE - SEVEN VARIABLES PER CARD. UP TO 100 VARIABLES.
LAST FIELD MUST HAVE 99 FOR 2 DIGIT SEQUENCE NUMBER.

2 DIGIT NUMERIC CODE 2 DIGIT ALPHANUMERIC CODE NAME (ALPHANUMERIC)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

1st 2nd 3rd 4th 5th 6th 7th

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

13) CEI TABLE - ONE VARIABLE PER CARD. UP TO 50 VARIABLES.
LAST CARD MUST HAVE 99 FOR 2 DIGIT SEQUENCE NO.

2 DIGIT SEQUENCE NO. 3 DIGIT ALPHANUMERIC NO. NAME (ALPHANUMERIC) DESCRIPTION (ALPHANUMERIC)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

Application COR FORMATS

01	File ID	DOCUMENT NUMBER	DATE	INDEX VARIABLE 1	INDEX VARIABLE 2	INDEX VAR. 3	
	XXX XX-XXXX-X						
	1 2 3 4 5	6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22	23 24 25 26 27 28 29 30 31 32 33 34 35	36 37 38 39 40 41 42 43 44 45 46 47 48	49 50 51 52 53 54 55	56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
02 AND 03			TITLE				
	1 2 3 4 5	6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80			
04			CEX No REFERENCE				
05			DATE	ACTIVITY	REFERENCE		
	1 2 3 4 5	6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22	23 24 25 26 27 28 29 30	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	
06 THRU 19			DOCUMENT REFERENCES				
	1 2 3 4 5	6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80			
20 THRU 97			ABSTRACT				
	1 2 3 4 5	6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80			
98			KEYWORD OR PHRASE				
	1 2 3 4 5	6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80			

WESTINGHOUSE ASTRONUCLEAR LABORATORY

NAME	DATE	TITLE	PAGE OF
INPUT EXAMPLE - PAGE 1			
<div style="display: flex; justify-content: space-between;"> <div> <p>JOB, 10.</p> <p>AS91408.</p> <p>ASP1231, GDP, 60, 200000, 01.</p> <p>REQUEST TAPE8.</p> <p>REQUEST TAPE9.</p> <p>REQUEST TAPE10.</p> <p>LONGBCD.</p> <p>INPUT.</p> <p>RESERVE TAPE9 (ACTIVE, FILE, U, NAME)</p> <p>RESERVE TAPE10 (KWIC, FILE, U, NAME)</p> <p>7/8/9</p> </div> <div> <p>JOB CONTROL CARDS</p> <p>FOR BINARY PROGRAM, IF SOURCE USE THE FOLLOWING TWO CARDS IN PLACE OF INPUT:</p> <p>RUN(P, , 1050, , , 77777)</p> <p>LG0.</p> </div> </div>			
BINARY PROGRAM DECK OF SOURCE DECK			
<div style="display: flex; justify-content: space-between;"> <div> <p>7/8/9</p> <p>7/8/9</p> <p>00000001</p> <p>SEQ C0RIA0A1S0SIM0MNIAB TESDPQ</p> <p>OCT0BER 30, 1960 SEQ</p> <p>DEPTTYPEITEM9999DATE OR NO.</p> <p>010000000100</p> <p>0103 01020301 02030101 02000001</p> <p>PRIME PRIME RESPONSIBILITY-----</p> <p>SUPPORT SUPPORT REQUIRED BY-----</p> <p>REVIEW REVIEW REQUIRED BY-----</p> <p>APPROVE APPROVAL REQUIRED BY-----</p> <p>9999</p> <p>-</p> <p>00 01002103204305406507608709810911A12B13C14D15E16F17G18H19I20J21K22L23M24N250</p> </div> <div> <p>IF SOURCE DECK USE ONLY ONE 7/8/9 CARD.</p> <p>NOTE: 7/8/9 IS MULTIPLE PUNCH IN COLUMN ONE.</p> <p>JUST A DASH IN COLUMN ONE.</p> </div> </div>			

FORM 1030

WESTINGHOUSE ASTRONUCLEAR LABORATORY

NAME	DATE	TITLE	PAGE OF
------	------	-------	---------

INPUT EXAMPLE - PAGE 2

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

26 P 27 Q 28 R 29 S 30 T 31 U 32 V 33 W 34 X 35 Y 36 Z 37 . 38 (39) 40 / 41 , 42 ' 43 - 44 + 45 = 46 * 47 \$

01 TYPE-01 02 TYPE-02 03 TYPE-03 04 TYPE-04 99

100 DEPT-10 DEPT-10

200 11 11

300 12 12

400 13 13

500 14 14

999

01 ITEM-2102 ITEM-2203 ITEM-2399

CET TABLE - AT LEAST ONE ENTRY, IN
CASE OF REFERENCE WILL PRINT BLANK,
OTHERWISE NOT NEEDED.

01 SEQ	1	TYPE-01	DEPT-10	102069	ITEM-21
	3	04	12	061369	21
	3A	04	12	082069	21
	4	03	11	011068	23
	5	02	13	050469	22
	19	01	10	022368	21
	19A	01	10	051469	21
	19B	01	10	010269	21
	21	02	11	010269	22
	30	02	14	030368	23

05 SEQ	3	102769	PRIME	AGNEW
	3	111469	SUPPORT	LODGE
	3	111469	REVIEW	HUMPHREY
	3	122569	APPROVE	NIXON
	5	011770	REVIEW	KENNEDY

WESTINGHOUSE ASTRONUCLEAR LABORATORY

NAME		DATE	TITLE	PAGE	OF
INPUT EXAMPLE - PAGE 3					
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72
73	74	75	76	77	78
79	80				
05	SEQ	19A	081569	REVIEW	GOLDWATER
02	SEQ	1	EXAMPLE	OF	TITLE FOR
		3			3
		3A			3A
		4			4
		5			5
		19			19
		19A			19A
		19B			19B
		21			21
		30			30
20		3	EXAMPLE	OF	AN ABSTRACT -
21		3	NOTE	THAT	THE THREE CHARACTER FILE
22		3	DESIGNATOR	IS	SEQ AND THAT THE INPUT IS BASED ON THE DATA
23		3	FORMAT.		
20		3A	THIS	SEQUENCE	NUMBER COULD BE A REVISION
21		3A	OF	THE	ORIGINAL NUMBER OR IT COULD BE AN
22		3A	UNRELATED	DOCUMENT	DEPENDING ON THE USER'S DEFINITION.
99					
6/7/8/9					
MULTIPLE PUNCH IN COLUMN ONE DESIGNATES END OF JOB.					
OUTPUT FOR THIS EXAMPLE IS SHOWN IN APPENDIX B.					

FORM 1030

APPENDIX B

LISTINGS

INPUT SUMMARY

1	1	0	0	0	0	0	100
1	TYPE-01		DEPT-10				102069ITEM-21
2	EXAMPLE OF TITLE FOR 1						
1	1	0	4	0	4	0	300
1	TYPE-04		DEPT-12				061369ITEM-21
2	EXAMPLE OF TITLE FOR 3						
5	102769PRIME AGNEW						
5	111469SUPPORT LODGE						
5	111469REVIEW HUMPHREY						
5	122569APPROVE NIXON						
20	EXAMPLE OF AN ABSTRACT-						
21	NOTE THAT THE THREE CHARACTER FILE						
22	DESIGNATOR IS SEQ AND THAT THE INPUT IS BASED ON THE DRM						
23	FORMAT.						
1	1	0	0	0	3	0	311
1	TYPE-04		DEPT-12				082069ITEM-21
2	EXAMPLE OF TITLE FOR 3A						
20	THIS SEQUENCE NUMBER COULD BE A REVISION						
21	OF THE ORIGINAL NUMBER OR IT COULD BE AN						
22	UNRELATED DOCUMENT DEPENDING ON THE USERS DEFINITION.						
1	1	0	0	0	0	0	400
1	TYPE-03		DEPT-11				011068ITEM-23
2	EXAMPLE OF TITLE FOR 4						
1	1	0	1	0	0	0	500
1	TYPE-02		DEPT-13				050469ITEM-22
2	EXAMPLE OF TITLE FOR 5						
5	011770REVIEW KENNEDY						
1	1	0	0	0	0	0	1900
1	TYPE-01		DEPT-10				022368ITEM-21
2	EXAMPLE OF TITLE FOR 19						
1	1	0	1	0	0	0	1911
1	TYPE-01		DEPT-10				051469ITEM-21
2	EXAMPLE OF TITLE FOR 19A						
5	081569REVIEW GOLDWATER						
1	1	0	0	0	0	0	1912
1	TYPE-01		DEPT-10				111569ITEM-21
2	EXAMPLE OF TITLE FOR 19B						
1	1	0	0	0	0	0	2100
1	TYPE-02		DEPT-11				010269ITEM-22
2	EXAMPLE OF TITLE FOR 21						
1	1	0	0	0	0	0	3000
1	TYPE-02		DEPT-14				030368ITEM-23
2	EXAMPLE OF TITLE FOR 30						
COMPLETED PHASE 1							
NO. OF DOCUMENTS ENTERED							10

DOCUMENT NUMBER
AS FOR EXAMPLE:

311 is 3A

REVISION CODE -
INTERPRET FROM
ALPHABET CARDS.

B-1

UPDATED FILE

100 1000101 691020 0 1 0 0 0 0 0
 2 EXAMPLE OF TITLE FOR 1

300 3000401 690613 0 1 0 4 0 4 0
 2 EXAMPLE OF TITLE FOR 3
 102769 PRIME AGNEW
 111469 SUPPORT LODGE
 111469 REVIEW HUMPHREY
 122569 APPROVE NIXON
 20 EXAMPLE OF AN ABSTRACT-
 21 NOTE THAT THE THREE CHARACTER FILE
 22 DESIGNATOR IS SEQ AND THAT THE INPUT IS BASED ON THE DRM
 23 FORMAT.

311 3000401 690820 0 1 0 0 0 3 0
 2 EXAMPLE OF TITLE FOR 3A
 20 THIS SEQUENCE NUMBER COULD BE A REVISION
 21 OF THE ORIGINAL NUMBER OR IT COULD BE AN
 22 UNRELATED DOCUMENT DEPENDING ON THE USERS DEFINITION.

400 2000303 680110 0 1 0 0 0 0 0
 2 EXAMPLE OF TITLE FOR 4

500 4000202 690504 0 1 0 1 0 0 0
 2 EXAMPLE OF TITLE FOR 5
 11770 REVIEW KENNEDY

1900 1000101 680223 0 1 0 0 0 0 0
 2 EXAMPLE OF TITLE FOR 19

1911 1000101 690514 0 1 0 1 0 0 0
 2 EXAMPLE OF TITLE FOR 19A
 81569 REVIEW GOLDWATER

1912 1000101 691115 0 1 0 0 0 0 0
 2 EXAMPLE OF TITLE FOR 19B

2100 2000202 690102 0 1 0 0 0 0 0
 2 EXAMPLE OF TITLE FOR 21

3000 5000203 680303 0 1 0 0 0 0 0
 2 EXAMPLE OF TITLE FOR 30
 NO. OF DOCUMENTS ON FILE 10

DOCUMENT NUMBER

400 is 4

500 is 5

SEE ALPHABET CARDS

FOR INTERPRETING

LAST TWO DIGITS.

1 DEPT-10 TYPE-01 ITEM-21 10/20/69

EXAMPLE OF TITLE FOR 1

3 DEPT-12 TYPE-04 ITEM-21 6/13/69

EXAMPLE OF TITLE FOR 3

PRIME RESPONSIBILITY----- 10/27/69 AGNEW
SUPPORT REQUIRED BY----- 11/14/69 LODGE
REVIEW REQUIRED BY----- 11/14/69 HUMPHREY
APPROVAL REQUIRED BY----- 12/25/69 NIXON

EXAMPLE OF AN ABSTRACT-

NOTE THAT THE THREE CHARACTER FILE
DESIGNATOR IS SEQ AND THAT THE INPUT IS BASED ON THE DRM
FORMAT.

3A DEPT-12 TYPE-04 ITEM-21 6/20/69

EXAMPLE OF TITLE FOR 3A

THIS SEQUENCE NUMBER COULD BE A REVISION
OF THE ORIGINAL NUMBER OR IT COULD BE AN
UNRELATED DOCUMENT DEPENDING ON THE USERS DEFINITION.

4 DEPT-11 TYPE-03 ITEM-23 1/10/68

EXAMPLE OF TITLE FOR 4

5 DEPT-13 TYPE-02 ITEM-22 5/ 4/69

EXAMPLE OF TITLE FOR 5

PAGE 1- 2 SEQ ABSTRACTS OCTOBER 30, 1960

REVIEW REQUIRED BY----- 1/17/70 KENNEDY

19 DEPT-10 TYPE-01 ITEM-21 2/23/68

EXAMPLE OF TITLE FOR 19

19A DEPT-10 TYPE-01 ITEM-21 5/14/69

EXAMPLE OF TITLE FOR 19A

REVIEW REQUIRED BY----- 8/15/69 GOLDWATER

19B DEPT-10 TYPE-01 ITEM-21 11/15/69

EXAMPLE OF TITLE FOR 19B

21 DEPT-11 TYPE-02 ITEM-22 1/ 2/69

EXAMPLE OF TITLE FOR 21

30 DEPT-14 TYPE-02 ITEM-23 3/ 3/68

EXAMPLE OF TITLE FOR 30

PAGE	2-	1	SEQ INDEXES ISSUED	OCTOBER 30, 1960	SORTED BY	NO.
3	6/13/69	EXAMPLE OF TITLE FOR	3		10/27/69	PRIME AGNEW
3	6/13/69	EXAMPLE OF TITLE FOR	3		11/14/69	SUPPORT LODGE
3	6/13/69	EXAMPLE OF TITLE FOR	3		11/14/69	REVIEW HUMPHREY
3	6/13/69	EXAMPLE OF TITLE FOR	3		12/25/69	APPROVE NIXON
5	5/ 4/69	EXAMPLE OF TITLE FOR	5		1/17/70	REVIEW KENNEDY
19A	5/14/69	EXAMPLE OF TITLE FOR	19A		8/15/69	REVIEW GOLDWATER

ACTIVITIES LISTING

 1 DEPT-10 TYPE-01 ITEM-2110/20/69

EXAMPLE OF TITLE FOR 1

 19 DEPT-10 TYPE-01 ITEM-21 2/23/68

EXAMPLE OF TITLE FOR 19

 19A DEPT-10 TYPE-01 ITEM-21 5/14/69

EXAMPLE OF TITLE FOR 19A

 19B DEPT-10 TYPE-01 ITEM-2111/15/69

EXAMPLE OF TITLE FOR 19B

 21 DEPT-11 TYPE-02 ITEM-22 1/ 2/69

EXAMPLE OF TITLE FOR 21

 4 DEPT-11 TYPE-03 ITEM-23 1/10/68

EXAMPLE OF TITLE FOR 4

 3 DEPT-12 TYPE-04 ITEM-21 6/13/69

EXAMPLE OF TITLE FOR 3

 3A DEPT-12 TYPE-04 ITEM-21 8/20/69

EXAMPLE OF TITLE FOR 3A

 5 DEPT-13 TYPE-02 ITEM-22 5/ 4/69

EXAMPLE OF TITLE FOR 5

 30 DEPT-14 TYPE-02 ITEM-23 3/ 3/68

PAGE 5-	1	SEQ INDEXES ISSUED	OCTOBER 30, 1960	SORTED BY DATE		
5	5/ 4/69	EXAMPLE OF TITLE FOR	5	1/17/70	REVIEW	KENNEDY
19A	5/14/69	EXAMPLE OF TITLE FOR	19A	8/15/69	REVIEW	GOLDWATER
3	6/13/69	EXAMPLE OF TITLE FOR	3	10/27/69	PRIME	AGNEW
3	6/13/69	EXAMPLE OF TITLE FOR	3	11/14/69	SUPPORT	LODGE
3	6/13/69	EXAMPLE OF TITLE FOR	3	11/14/69	REVIEW	HUMPHREY
3	6/13/69	EXAMPLE OF TITLE FOR	3	12/25/69	APPROVE	NIXON

ACTIVITIES LISTING

 4 DEPT-11 TYPE-03 ITEM-23 1/10/68

EXAMPLE OF TITLE FOR 4

 19 DEPT-10 TYPE-01 ITEM-21 2/23/68

EXAMPLE OF TITLE FOR 19

 30 DEPT-14 TYPE-02 ITEM-23 3/ 3/68

EXAMPLE OF TITLE FOR 30

 21 DEPT-11 TYPE-02 ITEM-22 1/ 2/69

EXAMPLE OF TITLE FOR 21

 5 DEPT-13 TYPE-02 ITEM-22 5/ 4/69

EXAMPLE OF TITLE FOR 5

 19A DEPT-10 TYPE-01 ITEM-21 5/14/69

EXAMPLE OF TITLE FOR 19A

 3 DEPT-12 TYPE-04 ITEM-21 6/13/69

EXAMPLE OF TITLE FOR 3

 3A DEPT-12 TYPE-04 ITEM-21 8/20/69

EXAMPLE OF TITLE FOR 3A

 1 DEPT-10 TYPE-01 ITEM-2110/20/69

EXAMPLE OF TITLE FOR 1

 19B DEPT-10 TYPE-01 ITEM-2111/15/69

B-9

APPENDIX C
SOURCE PROGRAM LISTING

```

PROGRAM GNP(INPUT,OUTPUT,TAPE5=INPUT,TAPE6=OUTPUT,TAPE8,TAPE9,
1TAPE10,TAPE11,TAPE12)
000003 DIMENSION NTYP(50),NTYP2(50,4),NDEP(50),NDEP2(50,4),NDEP3(50,7),
1 NREA(100),NREA2(100),NREA3(100,2),NCEI(50),NCEI2(50),NCEI3(50,3)
2,NCEI4(50,10),NDATE(4),NDRM(1500),POINT(1500),A(80),LIST(30000),
3TYPE(4),DEPT(4),REA(2),DAT(8),NSPEC(6),TEST(3),NORD(10,3),NCOP(100
4),SORT(1500),NCON(47),ALPH(47),B(100)
5,DIG(3),P(3),NEM(3)
6,JORZ(3),NORZ(3),TTYPE(2),TACTD(5)
7,IH(20,2),IHI(20,8),CR(10)
000003 COMMON LIST,POINT,NDRM,SORT,NCT,KIND
000003 COMMON NBLK,NCON,ALPH,N1,N2,N3,N7,DRM,TES,KTD,KTP,KTQ
000003 COMMON NREA,NREA2,NREA3,NTYP,NTYP2,NDEP,NDEP2,NDEP3
000003 COMMON NINES,COR,CR
000003 COMMON KWICK,KWREF,KWKW,KWPN,KOPT
000003 COMMON NSECT,NDATE,NPAGE,NLINE,KDAT,IAND,KNII
000003 INTEGER A,POINT,TYPE,DEPT,DATE,REA,DAT,WORD1,WORD2,R,TEST,SORT,
1ALPH,B,DIG,P,TDATE,TTYPE,TACTD,DRM,TES
2,COR,CR
000003 REWIND8
000005 REWIND9
000007 REWIND10
000011 REWIND11
000013 REWIND12
000015 NTYP=0
000016 NDEP=0
000017 NREA=0
000020 NCEI=0
000021 NSECT=0
000022 READ(5,501)NACT,NNHA,NOUP,NPRT
000035 501 FORMAT(I2)
C NACT=OLD DRM TAPE INDICATOR. 0=NO 1=YES. NNHA= OLD NEXT HIGHER
C ASSY TAPE. NOUP= LIST FROM OLD TAPE IF NOT ZERO. MUST REQUEST TAPE 9
C TAPE 9 AS OLD TAPE INSTEAD OF TAPE 8 AND NACT AND NNHA MUST EQUAL
C ZERO
C NPRT=PRINT-OUT ACTIVE FILE AFTER UPDATE(IF ANY) 0=NO. 1=YES.
000035 READ(5,206)DRM,COR,(CR(J),J=1,8),TES,KTD,KTP,KTQ
000063 206 FORMAT(2A4,8A2,A4,3A1)
000063 IF(DRM.EQ.TES)WRITE(6,735)
000071 735 FORMAT(1H1,29HDRM SYMBOL SAME AS TES SYMBOL)
000071 IF(DRM.EQ.TES)GO TO 101

```

OLD ACT
NEW ACT
KWIC
OLD NHA
NEW NHA

```

000073      READ(5,500) (NDATE(I),I=1,4),KIND,N4BLK,N2BLK,NBLK
000115      500  FORMAT(6A4,A2,A1)
000115      READ(5,529) (JORZ(I),I=1,3),NINES,KDAT,IAND,KNU
000137      529  FORMAT(7A4)
000137      READ(5,514) NABS,KWICK,KWKW,KWREF,KWPN,KOPT
000157      514  FORMAT(6I2)
000157      READ(5,230) NIND,NOS,((NORD(I,J),J=1,3),NCOP(I),I=1,NOS)
000204      230  FORMAT(2I2,3X,7(2X,4I2))
C      KWICK=TITLE ON KWIC TAPE 1=YES 0=NO.
C      KWKW=KEYWORD ON TAPE 1=YES 0=NO
C      KWREF=DOC REF ON KWIC TAPE
C      KOPT=ACTIVITIES ON KWIC TAPE 1 OR 2 =YES. 0=NO. 2=SUBSTITITUTE DOC DATE
C      FOR ACTIVITIES DATE WHEN ACTIVITIES DATE EQUALS ZERO. 1=NO SUBSTITUON.
C      KWPN=ACTIVE LISTING 1OR2=YES 0=NO. SAME AS KOPT DATE SUB., TWO SORTS 1ST BY D
C      DOC NUMBER. 2ND SORT BY DATE(NORD=020000)
C      NABS=ABSTRACT LISTING OPTION, KWICK=GENERATES INPUT FOR KWIC, NIND= DRM
C      INDEXES, NOS=NO OF SORTS FOR NIND, NORD= SORT SEQUENCES 1=DEPT,2=TYPE,
C      3=REACTOR,NCOP=NO OF COPIES,
C      NORD=000000 FOR SORT BY DOCUMENT NO ONLY.
C      NORD=010000 FOR SORT BY DEPARTMENT AND THEN DOC. NO. .
C      NORD=020000 FOR SORT BY DATE AND THEN DOC. NO. .
000204      NOTE=0
000205      724  NOTE=NOTE+1
000207      READ(5,723) (IH(NOTE,J),J=1,2), (IHI(NOTE,J),J=1,8)
000232      723  FORMAT(10A4)
000232      IF(IH(NOTE,1).NE.NINES) GO TO 724
000235      NOTE=NOTE-1
000236      READ(5,901) NDASH
000243      901  FORMAT(A1)
000243      READ(5,511) (NCON(I),ALPH(I),I=1,47)
000257      511  FORMAT(26(I2,A1))
000257      NA=0
000260      NB=0
000261      NC=0
000262      IF(NACT.NE.0) GO TO 2
000263      NA=99999999
000264      WRITE(8) NA,NA,NA,NA,NA,NA,NA,NA,NA,NA
000313      REWIND8
000315      2    NA=0
000316      IF(NNHA.NE.0) GO TO 3
000317      NA=99
000320      WRITE(11) NA

```

DATE AND
ACTION


```

000325      REWIND11
000327      NA=0
000330      ILO=-4
000331      3      ILO=ILO+5
000333      IUP=ILO+4
000335      READ(5,502)(( NTYP(I),(NTYP2(I,J),J=1,4)),I=ILO,IUP)
000357      502    FORMAT(5(I2,3A4,A1))
000357      DO 4 I=ILO,IUP
000361      IF( NTYP(I).NE.99)GO TO 4
000363      N1=I-1
000365      GO TO 5
000365      4      CONTINUE
000370      GO TO 3
000370      5      I=0
000371      9      I=I+1
000373      IF(KIND.EQ.COR)READ(5,503)NDEP(I),(NDEP2(I,J),J=1,4)
1,(NDEP3(I,J),J=1,7)
000422      IF(KIND.EQ.DRM)READ(5,503)NDEP(I),(NDEP2(I,J),J=1,4),(NDEP3(I,J),J=1,7)
1=1,7)
000452      IF(KIND.EQ.TES)READ(5,913)NDEP(I),(NDEP2(I,J),J=1,4),(NDEP3(I,J),J=1,7)
1=1,7)
000502      913    FORMAT(I3,3X,A1,2A4,A1,7A4)
000502      503    FORMAT(I3,3A4,A1,7A4)
000502      IF( NDEP(I).NE.999)GO TO 9
000505      N2=I-1
000506      ILO=-6
000507      6      ILO=ILO+7
000511      IUP=ILO+6
000513      READ(5,504)(( NREA(I),NREA2(I),(NREA3(I,J),J=1,2)),I=ILO,IUP)
000537      504    FORMAT(7(I2,A2,A4,A3))
000537      DO 7 I=ILO,IUP
000541      IF( NREA(I).NE.99)GO TO 7
000543      N3=I-1
000545      GO TO 8
000545      7      CONTINUE
000550      GO TO 6
000550      8      CONTINUE
000550      I=0
000551      10     I=I+1
000553      READ(5,505) NCEI(I),NCEI2(I),(NCEI3(I,J),J=1,3),(NCEI4(I,J),J=1,10)
1)
000602      505    FORMAT(I2,A3,A3,A4,A2,10A4)

```

NO TYPES

NO DEPTS

NO REAC

```

000602      IF(NCEI(I).NE.99)GO TO 10
000605      N4=I-1
000606      I=0
000607      ILO=0
000607      IF(NOUP.NE.0)GO TO 115
000610      IF(KIND.EQ.TES)GO TO 200
000612      IF(KIND.EQ.COR)GO TO 207
000614      11      I=I+1
000616      IF(I.GT.1500)GO TO 400
000621      READ(5,506)IC,NDRM(I),R,(A(J),J=1,18)
000640      506      FORMAT(I2,3X,15,A1,17A4,A1)
000640      IF(IC.EQ.99)GO TO 13
000642      IF(IC.EQ.0)GO TO 113
000643      IF(NDRM(I).EQ.0)GO TO 113
000644      J=0
000645      DO 34 L=1,47
000647      IF(ALPH(L).NE.R)GO TO 34
000651      J=NCON(L)
000653      GO TO 35
000653      34      CONTINUE
000655      35      CONTINUE
000655      NDRM(I)=NDRM(I)*10**4+J*100+IC
000665      ILO=ILO+1
000666      POINT(I)=ILO
000670      LIST(ILO)=IC
000671      DO 12 J=1,18
000672      ILO=ILO+1
000674      12      LIST(ILO)=A(J)
000677      GO TO 11
000700      113     I=I-1
000702      GO TO 11
000702      207     I=I+1
000704      IF(I.GT.1500)GO TO 400
000707      READ(5,208)IC,NT1,NDRM(I),R,(A(J),J=1,16)
000730      208      FORMAT(I2,3X,A2,1X,15,1X,A1,1X,16A4)
000730      IF(IC.EQ.99)GO TO 13
000732      IF(IC.EQ.0)I=I-1
000734      IF(IC.EQ.0)GO TO 207
000735      J=0
000736      DO 209 L=1,11
000737      IF(ALPH(L).NE.R)GO TO 209
000741      J=L-2

```

NO CEIS

DATA

CARD NO

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000743      GO TO 210
000743 209  CONTINUE
000745 210  NDRM(I)=NDRM(I)*1000+J*100+IC
000754      IF(NDRM(I).EQ.0) I=I-1
000757      IF(NDRM(I).EQ.0) GO TO 207
000761      J=0
000762      DO 211 L=1,8
000763      IF(CR(L).NE.NT1) GO TO 211
000765      J=L
000766      GO TO 212
000766 211  CONTINUE
000770 212  IF(J.EQ.0) J=1
000772      NDRM(I)=NDRM(I)+J*10**8
001000      ILO=ILO+1
001001      POINT(I)=ILO
001003      LIST(ILO)=IC
001005      DO 213 J=1,18
001006      ILO=ILO+1
001010 213  LIST(ILO)=A(J)
001013      GO TO 207
001014 200  I=I+1
001016      IF(I.GT.1500) GO TO 400
001021      READ(5,600) IC,NT1,NT2,NT3,NT4,R,(A(J),J=1,16)
001046 600  FORMAT(I2,3X,I2,2A1,1X,I3,1X,A1,1X,16A4)
001046      A(17)=N4BLK
001050      A(18)=NBLK
001051      IF(IC.EQ.99) GO TO 13
001053      IF(IC.EQ.0) GO TO 604
001054      NDRM(I)=NT1*10**7+NT4*10**4
001064      IF(NDRM(I).EQ.0) GO TO 604
001065      J=0
001066      DO 601 L=1,47
001070      IF(ALPH(L).NE.R) GO TO 601
001072      J=NCON(L)
001074      GO TO 602
001074 601  CONTINUE
001076 602  NDRM(I)=NDRM(I)+J*100+IC
001104      ILO=ILO+1
001105      POINT(I)=ILO
001107      LIST(ILO)=IC
001110      IF(IC.NE.1) GO TO 607
001111      A(5)=NT2

```

```

001113      A(6)=NT3
001114      607  CONTINUE
001114      DO 603 J=1,18
001116      ILO=ILO+1
001120      603  LIST(ILO)=A(J)
001123      GO TO 200
001124      604  I=I-1
001126      GO TO 200
001126      13   N5=I-1
001130      WRITE(6,620)N5
001136      620  FORMAT(1X,22HNO.OF CARDS OF INPUT =,2X,I4)
001136      IF(N5.EQ.0)GO TO 20
001137      IF(N5.EQ.1)GO TO 97
001141      14   JA=N5-1
001143      DO 15 I=1,JA
001145      JB=I+1
001147      DO 15 J=JB,N5
001151      IF(NDRM(I).LE.NDRM(J))GO TO 15
001154      NEMP=NDRM(I)
001156      NDRM(I)=NDRM(J)
001160      NDRM(J)=NEMP
001161      NEMP=POINT(I)
001162      POINT(I)=POINT(J)
001164      POINT(J)=NEMP
001165      15   CONTINUE
001172      97   CONTINUE
001172      IF(NPRT.NE.0)WRITE(6,622)
001177      622  FORMAT(1H1,1X,13HINPUT SUMMARY)
001177      I=1
001200      19   N7=0
001201      N8=0
001202      N9=0
001203      N10=0
001204      N11=0
001205      N12=0
001206      N6=0
001207      NEM1=NDRM(I)/100
001212      DO 16 J=I,N5
001214      JIC=NDRM(J)/100
001217      JIC=NDRM(J)-JIC*100
001222      NEM2=NDRM(J)/100
001225      IF(NEM1.NE.NEM2)GO TO 17
  
```

NO ENTRE

NO DESCS
 NO 4 CDS
 NO 5 CDS
 NO REFS
 NO ABSTS
 NO KEYWD
 NO 1 CD

```

001226      IF(JIC.EQ.1)N6=N6+1
001231      IF(JIC.EQ.2)N7=N7+1
001234      IF(JIC.EQ.3)N7=N7+1
001237      IF(JIC.EQ.4)N8=N8+1
001242      IF(JIC.EQ.5)N9=N9+1
001245      IF((JIC.GE.6).AND.(JIC.LE.19))N10=N10+1
001260      IF((JIC.GE.20).AND.(JIC.LE.97))N11=N11+1
001273      IF(JIC.EQ.98)N12=N12+1
001277      GO TO 16
001300      17      JD=J
001302      JE=J-1
001303      GO TO 18
001304      16      CONTINUE
001307      JE=N5
001310      18      NDRM(I)=NEM1
001312      WRITE(10,507)N6,N7,N8,N9,N10,N11,N12,NDRM(I)
001336      507      FORMAT(7I2,I7)
001336      IF(NPRT.NE.0)WRITE(6,618)N6,N7,N8,N9,N10,N11,N12,NDRM(I)
001363      618      FORMAT(1X,7(2X,I2),5X,I7)
001363      DO 21 J=I,JE
001365      JA=POINT(J)
001367      JB=JA+18
001371      IF(NPRT.NE.0)WRITE(6,619)(LIST(JC),JC=JA,JB)
001404      619      FORMAT(1X,I2,2X,17A4,A1)
001404      21      WRITE(10,508)(LIST(JC),JC=JA,JB)
001422      508      FORMAT(I2,17A4,A1)
001422      IF(JE.EQ.N5)GO TO 20
001424      I=JD
001425      GO TO 19
001426      20      CONTINUE
001426      WRITE(10,509)
001432      509      FORMAT(2H99,19X)
001432      WRITE(6,621)
001436      621      FORMAT(1X,17HCOMPLETED PHASE 1)
001436      REWIND10
001440      ICE=0
001441      M=12
001442      IF(NACT.EQ.0)M=9
001444      LEW=0
001445      IRET=1
001446      48      READ(10,507)N6,N7,N8,N9,N10,N11,N12,NEW
001472      NCOM=0

```

NO KEYWD

END DO

IC=FIRST

```

001473      DATE=0
001474      N13=0
001475      IF(N6.EQ.99)GO TO 49
001477      ICE=ICE+1
001500      IF(N6.EQ.0)GO TO 32
001501      IF(KIND.NE.TES)GO TO 201
001503      DO 413 J=1,N6
001504      READ(10,605)IC,DATE,(REA(I),I=1,2),NTTYP,DEPT(1),(A(I),I=1,30)
001533      605  FORMAT(I2,I6,A4,A3,3X,A4,A4,15X,30A1)
001533      413  CONTINUE
001536      IF(N6.GT.1)WRITE(6,414)NEW
001545      414  FORMAT(1X,27HMORE THAN ONE NO.1 CARD FOR,3X,I7)
001545      NCOM=0
001546      IF(NTTYP.EQ.KTD)NCOM=100
001551      IF(NTTYP.EQ.KTP)NCOM=200
001554      IF(NTTYP.EQ.KTQ)NCOM=300
001557      DO 606 I=1,N2
001561      IF(NDEP2(I,1).NE.DEPT(1))GO TO 606
001563      NCOM=NCOM+NDEP(I)*10**4
001570      GO TO 27
001570      606  CONTINUE
001573      GO TO 27
001573      201  CONTINUE
001573      IF(KIND.NE.COR)GO TO 214
001575      DO 215 J=1,N6
001577      READ(10,216)IC,DATE,(DEPT(I),I=1,4),(TYPE(I),I=1,4),(REA(I),I=1,2)
                                1,(A(I),I=1,30)
001636      216  FORMAT(I2,I6,2(3A4,A1),A4,A3,30A1)
001636      215  CONTINUE
001641      GO TO 217
001641      214  CONTINUE
001641      DO 415 J=1,N6
001643      READ(10,510)IC,(TYPE(I),I=1,4),(DEPT(I),I=1,4),DATE,(REA(I),I=1,2)
                                1,(A(I),I=1,30)
001702      510  FORMAT(I2,2(3A4,A1),I6,A4,A3,30A1)
001702      415  CONTINUE
001705      217  CONTINUE
001705      IF(N6.GT.1)WRITE(6,414)NEW
001715      NCOM=0
001716      DO 22 I=1,N1
001720      DO 23 J=1,4
001721      23  IF(NTYP2(I,J).NE.TYPE(J))GO TO 22

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NO DATIT

```

001727      NCOM=NTYP(I)*100
001731      GO TO 24
001732      22      CONTINUE
001735      24      CONTINUE
001735      DO 25 I=1,N2
001737      DO 26 J=1,4
001740      26      IF(NDEP2(I,J).NE.DEPT(J))GO TO 25
001746      NCOM=NCOM+NDEP(I)*10**4
001752      GO TO 27
001753      25      CONTINUE
001756      27      CONTINUE
001756      DO 28 I=1,N3
001760      DO 29 J=1,2
001761      29      IF(NREA3(I,J).NE.REA(J))GO TO 28
001767      NCOM=NCOM+NREA(I)
001770      GO TO 30
001771      28      CONTINUE
001774      30      CONTINUE
001774      NEMP=DATE/100
001777      NEMP=DATE-NEMP*100
002002      DATE=DATE/100+NEMP*10**4
002007      DO 31 I=1,30,5
002010      IF(A(I).EQ.NBLK)GO TO 32
002012      N13=N13+1
002014      31      CONTINUE
002015      32      CONTINUE
002015      IRET=2
002016      900      CONTINUE
002016      IF(KIND.EQ.TES)N8=N8+1
002022      WRITE(M)NEW,NCOM,DATE,N13,N7,N8,N9,N10,N11,N12
002051      IF(N13.EQ.0)GO TO 36
002052      N14=N13*5
002054      L=0
002055      DO 52 K=1,N13
002056      R(K)=0
002057      LH=8
002060      DO 52 JA=1,5
002062      L=L+1
002064      IF(A(L).EQ.NDASH)GO TO 52
002066      DO 53 JH=1,47
002070      IF(ALPH(JH).NE.A(L))GO TO 53
002073      LH=LH-2

```

CONVERTS
 DATA
 ITEMS TO
 8 DIGIT
 NUMERIC

```

002074      B(K)=B(K)+NCON(JB)*10**LB
002104      GO TO 52
002104      53  CONTINUE
002106      52  CONTINUE
002113      IF(N13.FQ.1)GO TO 55
002114      JA=N13-1
002115      DO 54 K=1,JA
002116      JB=K+1
002120      DO 54 L=JB,N13
002122      IF(B(K).LE.B(L))GO TO 54
002125      NEMP=B(K)
002127      B(K)=B(L)
002131      B(L)=NEMP
002132      54  CONTINUE
002137      55  WRITE(M)(B(K),K=1,N13)
002151      36  IF(N7.EQ.0)GO TO 38
002152      DO 37 L=1,N7
002154      READ(10,508)IC,(A(I),I=1,18)
002167      37  WRITE(M)IC,(A(I),I=1,15)
002205      38  IF(N8.EQ.0)GO TO 40
002206      K=0
002207      N=0
002210      IF(KIND.NE.TES)GO TO 565
002212      K=1
002213      N=1
002214      POINT(1)=K
002215      A(1)=NEW/10**5
002222      LIST(1)=NBLK
002223      DO 564 I=2,6
002225      K=K+1
002227      564  LIST(K)=NBLK
002232      IF(N8.EQ.1)GO TO 563
002234      565  CONTINUE
002234      IF(KIND.EQ.TES)N8=N8-1
002240      DO 39 L=1,N8
002242      K=K+1
002244      N=N+1
002245      READ(10,512)IC,A(N),(NSPEC(I),I=1,6)
002262      512  FORMAT(I2,I2,2A4,A3,A2,A4,A3,47X)
002262      POINT(N)=K
002264      LIST(K)=NSPEC(1)
002266      DO 39 I=2,6

```



```

002267      K=K+1
002271  39    LIST(K)=NSPEC(I)
002277      IF(KIND.EQ.TES)N8=N8+1
002302      IF(N8.EQ.1)GO TO 563
002304      JA=N8-1
002305      DO 547 I=1,JA
002306      JB=I+1
002310      DO 547 JC=JB,N8
002312      IF(A(I).LE.A(JC))GO TO 547
002315      NEMP=A(I)
002317      A(I)=A(JC)
002321      A(JC)=NEMP
002322      NEMP=POINT(I)
002323      POINT(I)=POINT(JC)
002325      POINT(JC)=NEMP
002326  547    CONTINUE
002333  563    CONTINUE
002333      DO 548 L=1,N8
002335      K=POINT(L)
002337      IUP=K+5
002341  548    WRITE(M)A(L),(LIST(JA),JA=K,IUP)
002360  40      IF(N9.EQ.0)GO TO 42
002361  218     CONTINUE
002361      DO 608 L=1,N9
002363      READ(10,609)IC,TDATE,(TTYPE(I),I=1,2),(TACTD(I),I=1,5)
002406  609     FORMAT(I2,I6,2A4,5A4)
002406  608     WRITE(M)TDATE,(TTYPE(I),I=1,2),(TACTD(I),I=1,5)
002432  42      IF(N10.EQ.0)GO TO 44
002433      DO 43 L=1,N10
002435      READ(10,508)IC,(A(K),K=1,18)
002450  43      WRITE(M)IC,(A(K),K=1,15)
002466  44      IF(N11.EQ.0)GO TO 46
002467      DO 45 L=1,N11
002471      READ(10,508)IC,(A(I),I=1,18)
002504  45      WRITE(M)IC,(A(I),I=1,15)
002522  46      IF(N12.EQ.0)GO TO 48
002523      DO 47 L=1,N12
002525      READ(10,508)IC,(A(I),I=1,18)
002540  47      WRITE(M)(A(I),I=1,15)
002554      GO TO 48
002554  49      NEW=99999999
002556      WRITE(6,733)ICE

```

DOC REF.

ABSTRACT
IC IS 20KEY WORD
IC IS 98

```

002563 733  FORMAT(1X,24HNO. OF DOCUMENTS ENTERED,2X,I4)
002563      DATE=0
002564      N13=0
002565      NCOM=0
002566      WRITE(M)NEW,NCOM,DATE,N13,N7,N8,N9,N10,N11,N12
002615      IF(NACT.EQ.0)GO TO 570
002616      CALL GDPUP
002617 570  CONTINUE
002617 115  CONTINUE
002617      ICE=0
002620      REWIND9
002622      REWIND10
002624      IF(NPRT.EQ.0)GO TO 722
002625      WRITE(6,700)
002631 700  FORMAT(1H1)
002631 721  READ(9)NEW,NCOM,NATE,N13,N7,N8,N9,N10,N11,N12
002660      IF(NEW.EQ.9999999)GO TO 722
002662      ICE=ICE+1
002664      WRITE(6,701)
002667 701  FORMAT(1X)
002667      WRITE(6,702)NEW,NCOM,NATE,N13,N7,N8,N9,N10,N11,N12
002717 702  FORMAT(1X,I7,2X,I7,2X,I6,2X,7(1X,I2))
002717      IF(N13.NE.0)READ(9)(A(J),J=1,N13)
002732      IF(N13.NE.0)WRITE(6,703)(A(J),J=1,N13)
002746 703  FORMAT(1X,I8)
002746      IF(N7.EQ.0)GO TO 706
002747      DO 704 I=1,N7
002751      READ(9)(A(J),J=1,16)
002762 704  WRITE(6,705)(A(J),J=1,16)
002777 705  FORMAT(1X,I2,2X,15A4)
002777 706  IF(N8.EQ.0)GO TO 709
003000      DO 707 I=1,N8
003002      READ(9)(A(J),J=1,7)
003013 707  WRITE(6,708)(A(J),J=1,7)
003030 708  FORMAT(1X,I2,2X,2A4,A3,A2,A4,A3)
003030 709  IF(N9.EQ.0)GO TO 713
003031      DO 710 I=1,N9
003033      READ(9)(A(J),J=1,8)
003044      WRITE(6,711)(A(J),J=1,8)
003056 710  CONTINUE
003061 711  FORMAT(1X,I6,2X,2A4,2X,5A4)
003061 713  IF(N10.EQ.0)GO TO 716

```

```

003062      DO 714 I=1,N10
003064      READ(9)(A(J),J=1,16)
003075      714  WRITE(6,715)(A(J),J=1,16)
003112      715  FORMAT(1X,12,2X,15A4)
003112      716  IF(N11.EQ.0)GO TO 718
003113      DO 717 I=1,N11
003115      READ(9)(A(J),J=1,16)
003126      717  WRITE(6,715)(A(J),J=1,16)
003143      718  IF(N12.EQ.0)GO TO 721
003144      DO 719 I=1,N12
003146      READ(9)(A(J),J=1,15)
003157      719  WRITE(6,720)(A(J),J=1,15)
003174      720  FORMAT(1X,15A4)
003174      GO TO 721
003174      722  REWIND9
003176      WRITE(6,734)ICE
003204      734  FORMAT(1X,24HNO. OF DOCUMENTS ON FILE,2X,I4)
003204      IF(NABS.EQ.0)GO TO 51
003205      WRITE(6,610)KIND
003213      610  FORMAT(1H1,////50X,A4,10H ABSTRACTS)
003213      NLINE=3
003214      NPAGE=1
003215      NSECT=1
003216      WRITE(6,611)NPAGE,KIND,(NDATE(I1),I1=1,4)
003234      611  FORMAT(1H1,1X,7HPAGE 1-,I4,5X,A4,10H ABSTRACTS,10X,4A4/)
003234      51  REWIND9
003236      I=0
003237      J=0
003240      50  I=I+1
003242      IF(I.GT.1500)GO TO 404
003245      J=J+1
003246      IF(J.GT.30000)GO TO 406
003251      READ(9)NDRM(I),SORT(I),DATE,N13,N7,N8,N9,N10,N11,N12
003300      IF(NDRM(I).EQ.9999999)GO TO 83
003303      POINT(I)=J
003304      LIST(J)=DATE
003306      J=J+1
003307      IF(J.GT.30000)GO TO 406
003312      NCOM=N13*10**7+N7*10**6+N8*10**4+N9*100+N10
003332      LIST(J)=NCOM
003334      IF(NABS.EQ.0)GO TO 549
003335      IRET=1

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003336      NLINE=NLINE+3
003337      IF(NLINE.LE.40)GO TO 79
003341      NPAGE=NPAGE+1
003343      NLINE=3
003344      WRITE(6,611)NPAGE,KIND,(NDATE(I1),I1=1,4)
003361  79    IF(KIND.NE.COR)GO TO 219
003363      NEW=NDRM(I)/10
003367      R=NDRM(I)-NEW*10+2
003372      R=ALPH(R)
003374      GO TO 72
003374  219   NEW=NDRM(I)/100
003400      R=NDRM(I)-NEW*100
003403  224   CONTINUE
003403      DO 71 K=1,47
003405      IF(NCON(K).NE.R)GO TO 71
003407      R=ALPH(K)
003410      GO TO 72
003411  71    CONTINUE
003413  72    GO TO(301,302),IRET
003421  301   KA=SORT(I)/10**4
003426      KB=SORT(I)/10**2-KA*100
003434      KC=SORT(I)-KB*100-KA*10**4
003442  302   CONTINUE
003442      DO 73 K=1,N2
003444      IF(KA.NE.NDEP(K))GO TO 73
003446      KA=K
003447      GO TO 74
003447  73    CONTINUE
003452  74    DO 75 K=1,N1
003454      IF(KB.NE.NTYP(K))GO TO 75
003456      KB=K
003457      GO TO 76
003457  75    CONTINUE
003462  76    DO 77 K=1,N3
003464      IF(KC.NE.NREA(K))GO TO 77
003466      KC=K
003467      GO TO 78
003467  77    CONTINUE
003472  78    CONTINUE
003472      KF=DATE/10**4
003476      KD=DATE/100-KF*100
003503      KE=DATE-KD*100-KF*10**4
  
```

DEPT
TYPE
REAC

YEAR
MONTH
DAY

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003511      GO TO(80,93),IRET                                     GROWTH
003517      80  WRITE(6,521)
003523      521  FORMAT(1X,117H*****
1*****
003523      IF(KIND.NE.DRM)GO TO 615
003525      WRITE(6,518)NEW,R,(NDEP3(KA,K),K=1,7),(NTYP2(KB,K),K=1,4),
1(NREA3(KC,K),K=1,2),KD,KE,KF
003573      518  FORMAT( 4X,I6,A1,2X,7A4,2X,3A4,A1,2X,A4,A3,I2,1H/,I2,1H/,I2/)
003573      GO TO 617
003574      615  CONTINUE
003574      IF(KIND.NE.COR)GO TO 221
003576      NT1=NEW/10**5
003603      NEW=NEW-NT1*10**5
003607      WRITE(6,220)CR(NT1),NEW,R,(NDEP3(KA,K),K=1,7),(NTYP2(KB,K),K=1,4),
1(NREA3(KC,K),K=1,2),KD,KE,KF
003656      220  FORMAT(4X,A2,1H-,I5,1H-,A1,2X,7A4,2X,3A4,A1,2X,A4,A3,2X,I2,1H/,I2,1H/,
11H/,I2/)
003656      GO TO 617
003657      221  CONTINUE
003657      NT1=NEW/10**3
003663      NT4=NEW-NT1*10**3
003667      IF(KB.EQ.1)NT2=NBLK
003672      IF(KB.EQ.2)NT2=KTD
003675      IF(KB.EQ.3)NT2=KTP
003700      IF(KB.EQ.4)NT2=KTQ
003703      IF(KB.GT.4)NT2=NBLK
003707      IF(KB.LT.1)NT2=NBLK
003713      NT3=NDEP2(KA,1)
003715      WRITE(6,616)NT1,NT2,NT3,NT4,R,(NDEP3(KA,K),K=1,7),(NTYP2(KB,K),K=1
1,4),(NREA3(KC,K),K=1,2),KD,KE,KF
003771      616  FORMAT( 4X,I2,2A1,1H-,I3,1H-,A1,2X,7A4,2X,3A4,A1,2X,
1A4,A3,2X,I2,1H/,I2,1H/,I2/)
003771      617  CONTINUE
003771      549  CONTINUE
003771      IF(N13.EQ.0)GO TO 57
003772      READ(9)(B(K),K=1,N13)
004004      DO 56 K=1,N13
004006      J=J+1
004010      IF(J.GT.30000)GO TO 406
004013      56  LIST(J)=B(K)
004016      57  IF(N7.EQ.0)GO TO 59
004017      IF(NABS.NE.0)GO TO 550

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8 DIGIT

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004020      DO 58 K=1,N7
004022      READ(9)IC,(A(L),L=1,15)
004035      DO 58 L=1,15
004037      J=J+1
004041      IF(J.GT.30000)GO TO 406
004044      58      LIST(J)=A(L)
004051      GO TO 59
004052      550     CONTINUE
004052      DO 551 K=1,N7
004054      READ(9)IC,(A(L),L=1,15)
004067      NLINE=NLINE+1
004071      IF(NLINE.LE.40)GO TO 552
004073      NPAGE=NPAGE+1
004074      NLINE=3
004075      WRITE(6,611)NPAGE,KIND,(NDATE(I1),I1=1,4)
004113      552     WRITE(6,520)(A(L),L=1,15)
004125      DO 553 L=1,15
004127      J=J+1
004131      IF(J.GT.30000)GO TO 406
004134      553     LIST(J)=A(L)
004137      551     CONTINUE
004141      NLINE=NLINE+1
004142      WRITE(6,562)
004146      562     FORMAT(1X)
004146      59      IF(NB.EQ.0)GO TO 61
004147      IF(NABS.NE.0)GO TO 554
004150      DO 60 K=1,NB
004152      READ(9)LTWO,(NSPEC(L),L=1,6)
004165      J=J+1
004167      IF(J.GT.30000)GO TO 406
004172      LIST(J)=LTWO
004173      DO 60 L=1,6
004175      J=J+1
004177      IF(J.GT.30000)GO TO 406
004202      60      LIST(J)=NSPEC(L)
004207      GO TO 61
004210      554     CONTINUE
004210      NTWO=0
004211      DO 560 K=1,NB
004213      READ(9)LTWO,(NSPEC(L),L=1,6)
004226      IF(LTWO.EQ.NTWO)GO TO 555
004230      NTWO=LTWO
  
```

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004231      JA=1
004232      DO 556 L=1,N4
004233      IF(NTWO.NE.NCEI(L))GO TO 556
004235      JA=L
004236      GO TO 557
004236      556 CONTINUE
004241      557 CONTINUE
004241      IF(JA.EQ.1)GO TO 555
004243      NLINE=NLINE+1
004244      IF(NLINE.LE.40)GO TO 561
004246      NPAGE=NPAGE+1
004247      NLINE=3
004250      WRITE(6,611)NPAGE,KIND,(NDATE(I1),I1=1,4)
004266      561 CONTINUE
004266      WRITE(6,558)(NCEI3(JA,L),L=1,3),(NCEI4(JA,L),L=1,10)
004312      558 FORMAT(6X,3HFOR,1X,A3,A4,A2,1X,10A4)
004312      555 J=J+1
004314      IF(J.GT.30000)GO TO 406
004317      LIST(J)=LTWO
004320      DO 559 L=1,6
004322      J=J+1
004324      IF(J.GT.30000)GO TO 406
004327      559 LIST(J)=NSPEC(L)
004332      560 CONTINUE
004334      NLINE=NLINE+1
004335      WRITE(6,562)
004341      61 IF(N9.EQ.0)GO TO 63
004342      DO 614 NEMP=1,N9
004344      READ(9)TDATE,(TTYPE(L),L=1,2),(TACTD(L),L=1,5)
004365      IF(NABS.EQ.0)GO TO 725
004366      L1=0
004367      DO 726 L=1,NOTE
004371      DO 727 K=1,2
004372      727 IF(IH(L,K).NE.TTYPE(K))GO TO 726
004400      L1=L
004401      GO TO 728
004401      726 CONTINUE
004404      GO TO 725
004404      728 NLINE=NLINE+1
004406      IF(NLINE.LE.40)GO TO 729
004410      NPAGE=NPAGE+1
004411      NLINE=3

```

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004412      WRITE(6,611)NPAGE,KIND,(NDATE(I1),I1=1,4)
004430      GO TO 730
004431      729  CONTINUE
004431      730  JA=TDATE/10**4
004435      JB=TDATE/100-100*JA
004442      JC=TDATE-(TDATE/100)*100
004446      WRITE(6,732)(IHI(L1,K),K=1,8),JA,JB,JC,(TACTD(K),K=1,5)
004475      732  FORMAT(6X,8A4,1X,I2,1H/,I2,1H/,I2,1X,5A4)
004475      725  CONTINUE
004475      J=J+1
004477      IF(J.GT.30000)GO TO 406
004502      LIST(J)=TDATE
004503      DO 613 L=1,2
004505      J=J+1
004507      IF(J.GT.30000)GO TO 406
004512      613  LIST(J)=TTYPE(L)
004515      DO 614 L=1,5
004516      J=J+1
004520      IF(J.GT.30000)GO TO 406
004523      614  LIST(J)=TACTD(L)
004530      NLINE=NLINE+1
004531      WRITE(6,562)
004535      GO TO 63
004536      63  IF(N10.EQ.0)GO TO 65
004537      DO 64 K=1,N10
004541      READ(9)IC,(A(L),L=1,15)
004554      DO 64 L=1,15
004556      J=J+1
004560      IF(J.GT.30000)GO TO 406
004563      64  LIST(J)=A(L)
004570      65  IF(N11.EQ.0)GO TO 82
004571      IF(NABS.NE.0)GO TO 67
004572      DO 66 K=1,N11
004574      66  READ(9)IC,(A(L),L=1,15)
004612      GO TO 82
004612      67  JA=0
004613      70  CONTINUE
004613      DO 68 KIJL=1,N11
004615      READ(9)IC,(A(L),L=1,15)
004630      NLINE=NLINE+1
004632      IF(NLINE.LE.40)GO TO 81
004634      NPAGE=NPAGE+1

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004635      NLINE=3
004636      WRITE(6,611)NPAGE,KIND,(NDATE(I1),I1=1,4)
004654      81  WRITE(6,520)(A(L),L=1,15)
004666      520  FORMAT(6X,15A4)
004666      68  CONTINUE
004671      82  CONTINUE
004671      J=J+1
004673      IF(J.GT.30000)GO TO 406
004676      LIST(J)=N12
004677      IF(N12.EQ.0)GO TO 50
004700      DO 800 K=1,N12
004701      READ(9)(A(L),L=1,15)
004712      DO 800 L=1,15
004714      J=J+1
004716      IF(J.GT.30000)GO TO 406
004721      800  LIST(J)=A(L)
004726      GO TO 50
004727      83  NCT=I-1
004731      DIG(1)=3
004732      DIG(2)=2
004733      DIG(3)=2
004734      P(1)=1
004735      P(2)=2
004736      P(3)=3
004737      IF((KWPB.GT.0).OR.(KOPT.GT.0))GO TO 234
004747      IF((KWICK.EQ.0).AND.(KWREF.EQ.0).AND.(KWKW.EQ.0))GO TO 111
004757      234  CONTINUE
004757      IF(KWPB.GT.0)NSECT=NSECT+1
004762      CALL GDPKW
004763      KOPT=0
004764      KWICK=0
004765      KWREF=0
004766      KWKW=0
004767      REWIND10
004771      111  CONTINUE
004771      IF(NIND.EQ.0)GO TO 101
004772      IF(NOS.EQ.0)GO TO 101
004773      DO 100 NSORT=1,NOS
004775      DO 902 J=1,3
004776      902  IF(NORD(NSORT,J).NE.0)GO TO 903
005003      LITE=0
005004      GO TO 103

```

PRESENT
DIGITS

PRESENT
ORDER

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005004    903    IF(NORD(NSORT,1),NE.1)GO TO 229
005007          DO 904 J=2,3
005010    904    IF(NORD(NSORT,J),NE.0)GO TO 905
005014          LITE=1
005015          GO TO 103
005016    229    IF(NORD(NSORT,1),NE.2)GO TO 905
005021          DO 232 J=2,3
005022    232    IF(NORD(NSORT,J),NE.0)GO TO 905
005026          LITE=3
005027          GO TO 103
005030    905    DO 99 J=1,3
005032    99     IF((NORD(NSORT,J),LT.1).OR.(NORD(NSORT,J),GT.3))GO TO 102
005046          LITE=2
005047          GO TO 103
005050    102    WRITE(6,412)
005054    412    FORMAT(1X,18HERROR IN SORT SPEC)
005054          GO TO 101
005055    103    CONTINUE
005055          NSECT=NSECT+1
005057          NREMB=NSECT
005060          NCOPY=NCOP(NSORT)
005062          IF(NCOPY,EQ.0)GO TO 100
005063          DO 100 LCOPY=1,NCOPY
005064          NSECT=NREMB
005066          NPAGE=0
005067          WRITE(6,522)KIND
005074    522    FORMAT(1H1,/////////53X,A4.8H INDEXES)
005074          IF(LITE,EQ.2)GO TO 85
005076          IF(LITE,EQ.3)GO TO 231
005100    912    IF(LITE,NE.0)GO TO 85
005101          JA=NCT-1
005103          DO 906 I=1,JA
005105          JB=I+1
005107          DO 906 J=JB,NCT
005111          IF(NDRM(I),LE.NDRM(J))GO TO 906
005114          NEMP=NDRM(I)
005116          NDRM(I)=NDRM(J)
005120          NDRM(J)=NEMP
005121          NEMP=NSORT(I)
005122          SORT(I)=SORT(J)
005124          SORT(J)=NEMP
005125          NFMP=POINT(I)

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005126      POINT(I)=POINT(J)
005130      POINT(J)=NEMP
005131  906    CONTINUE
005136      NORZ(1)=KIND
005140      NORZ(2)=N4BLK
005141      NORZ(3)=N4BLK
005142      GO TO 91
005142  908    DIG(1)=3
005143      DIG(2)=2
005144      DIG(3)=2
005145      P(1)=1
005146      P(2)=2
005147      P(3)=3
005150      JA=NCT-1
005152      DO 909 I=1,JA
005154      JB=I+1
005156      NEM1=SORT(I)/10**4
005162      DO 909 J=JB,NCT
005164      NEM2=SORT(J)/10**4
005170      IF(NEM1.LE.NEM2)GO TO 909
005173      NEM1=NEM2
005173      NEMP=NDRM(I)
005175      NDRM(I)=NDRM(J)
005177      NDRM(J)=NEMP
005201      NEMP=SORT(I)
005202      SORT(I)=SORT(J)
005203      SORT(J)=NEMP
005205      NEMP=POINT(I)
005206      POINT(I)=POINT(J)
005207      POINT(J)=NEMP
005211  909    CONTINUE
005216      DO 911 I=1,JA
005220      JB=I+1
005222      NEM1=SORT(I)/10**4
005226      DO 910 J=JB,NCT
005230      NEM2=SORT(J)/10**4
005234      IF(NEM1.NE.NEM2)GO TO 911
005236      IF(NDRM(I).LE.NDRM(J))GO TO 910
005242      NEMP=NDRM(I)
005243      NDRM(I)=NDRM(J)
005245      NDRM(J)=NEMP
005247      NEMP=SORT(I)

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005250      SORT(I)=SORT(J)
005251      SORT(J)=NEMP
005253      NEMP=POINT(I)
005254      POINT(I)=POINT(J)
005255      POINT(J)=NEMP
005257      910  CONTINUE
005262      911  CONTINUE
005265      NORZ(1)=KIND
005266      NORZ(2)=N4BLK
005270      NORZ(3)=N4BLK
005271      GO TO 91
005271      231  CONTINUE
005271      JA=NCT-1
005273      DO 228 I=1,JA
005275      JB=I+1
005277      JC=POINT(I)
005300      NEM1=LIST(JC)
005302      DO 228 J=JB,NCT
005304      JD=POINT(J)
005306      NEM2=LIST(JD)
005310      IF(NEM1.LE.NEM2)GO TO 227
005312      226  NEMP=NDRM(I)
005314      NDRM(I)=NDRM(J)
005316      NDRM(J)=NEMP
005320      NEMP=POINT(I)
005321      SORT(I)=SORT(J)
005322      SORT(J)=NEMP
005324      NEMP=POINT(I)
005325      POINT(I)=POINT(J)
005326      POINT(J)=NEMP
005330      NEM1=NEM2
005331      GO TO 228
005331      227  IF(NEM1.LT.NEM2)GO TO 228
005334      IF(NDRM(I).LT.NDRM(J))GO TO 228
005337      GO TO 226
005340      228  CONTINUE
005345      NORZ(1)=KDAT
005347      NORZ(2)=IAND
005350      NORZ(3)=KNJ
005352      IF(KWPN.EQ.0)GO TO 91
005353      CALL GDPKW
005354      NSECT=NREMR+1
  
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005356      NPAGE=0
005357      GO TO 91
005357      85      J1=DIG(1)
005361      J2=DIG(2)
005362      J3=DIG(3)
005364      JA=J2+J3
005365      DO 86 I=1,NCT
005367      IF(SORT(I).EQ.0)GO TO 86
005370      NEM(1)=SORT(I)/10**JA
005376      NEM(2)=SORT(I)/10**J3-NEM(1)*10**J2
005411      NEM(3)=SORT(I)-NEM(1)*10**JA-NEM(2)*10**J3
005426      JB=7
005427      NCOM=0
005430      DO 87 J=1,3
005431      NP=NORD(NSORT,J)
005434      IF(LITE.EQ.1)NP=J
005437      DO 88 JJ=1,3
005441      88      IF(P(JJ).EQ.NP)L=JJ
005446      JB=JB-DIG(L)
005450      87      NCOM=NCOM+NEM(L)*10**JB
005460      SORT(I)=NCOM
005462      86      CONTINUE
005465      IF(LITE.EQ.1)GO TO 908
005467      DO 89 J=1,3
005470      P(J)=NORD(NSORT,J)
005474      IF(P(J).EQ.1)GO TO 98
005476      DIG(J)=2
005477      GO TO 89
005500      98      DIG(J)=3
005502      89      CONTINUE
005504      JA=NCT-1
005506      DO 90 I=1,JA
005510      JB=I+1
005512      DO 90 J=JB,NCT
005514      IF(SORT(I).LE.SORT(J))GO TO 90
005517      NEMP=SORT(I)
005521      SORT(I)=SORT(J)
005523      SORT(J)=NEMP
005524      NEMP=POINT(I)
005525      POINT(I)=POINT(J)
005527      POINT(J)=NEMP
005530      NEMP=NDRM(I)

```

END DO

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005531      NDRM(I)=NDRM(J)
005533      NDRM(J)=NEMP
005534  90    CONTINUE
005541      DO 300 I=1,JA
005543      JB=I+1
005545      DO 537 J=JR,NCT
005547      IF(SORT(I).NE.SORT(J))GO TO 300
005552      IF(NDRM(I).LE.NDRM(J))GO TO 537
005554      NEMP=NDRM(I)
005556      NDRM(I)=NDRM(J)
005560      NDRM(J)=NEMP
005561      NEMP=POINT(I)
005562      POINT(I)=POINT(J)
005564      POINT(J)=NEMP
005565  537    CONTINUE
005570  300    CONTINUE
005573      DO 114 J=1,3
005574      NEMP=P(J)
005576  114    NORZ(J)=JORZ(NEMP)
005601  91    NPAGE=NPAGE+1
005603      NLINE=3
005604      WRITE(6,523)NSECT,NPAGE,KIND,(NDATF(M1),M1=1,4),(NORZ(M1),M1=1,3)
005631  523    FORMAT(1H1,1X,4HPAGE,I2,1H-,I3,9X,A4,15H INDEXES ISSUED,2X,4A4,2X,
19HSORTED BY,3(1X,A4)/)
005631      J2=DIG(2)
005633      J3=DIG(3)
005634      J1=DIG(1)
005636      JA=J2+J3
005640      I=0
005641  116    I=I+1
005643      IF(I.GT.NCT)GO TO 100
005646      IRET=2
005647      NEM(1)=SORT(I)/10**JA
005655      NEM(2)=SORT(I)/10**J3-NEM(1)*10**J2
005670      NEM(3)=SORT(I)-NEM(1)*10**JA-NEM(2)*10**J3
005705      DO 92 J=1,3
005706      IF(P(J).EQ.1)KA=NEM(J)
005712      IF(P(J).EQ.2)KB=NEM(J)
005716      IF(P(J).EQ.3)KC=NEM(J)
005722  92    CONTINUE
005724      J=POINT(I)
005726      DATE=LIST(J)

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005730      GO TO 79
005730      93      NLINE=NLINE+1
005732      INEX=1
005733      112     CONTINUE
005733      IF(NLINE.LE.40)GO TO 94
005736      NPAGE=NPAGE+1
005737      NLINE=3
005740      WRITE(6,523)NSECT,NPAGE,KIND,(NDATE(M1),M1=1,4),(NORZ(M1),M1=1,3)
005766      94      GO TO(95,96),INEX
005774      95      WRITE(6,521)
006000      IF(KIND.EQ.TES)GO TO 624
006002      IF(KIND.EQ.COR)GO TO 223
006004      WRITE(6,518)NEW,R,(NDEP3(KA,K),K=1,7),(NTYP2(KB,K),K=1,4),
1(NREA3(KC,K),K=1,2),KD,KE,KF
006051      GO TO 625
006052      223     NT1=NEW/10**5
006057      NEW=NEW-NT1*10**5
006063      WRITE(6,220)CR(NT1),NEW,R,(NDEP3(KA,K),K=1,7),(NTYP2(KB,K),K=1,4),
1(NREA3(KC,K),K=1,2),KD,KE,KF
006132      GO TO 625
006133      624     CONTINUE
006133      NT1=NEW/10**3
006137      NT4=NEW-NT1*10**3
006143      IF(KB.EQ.1)NT2=NBLK
006146      IF(KB.EQ.2)NT2=KTD
006151      IF(KB.EQ.3)NT2=KTP
006154      IF(KB.EQ.4)NT2=KTQ
006157      IF(KB.GT.4)NT2=NBLK
006163      IF(KB.LT.1)NT2=NBLK
006167      NT3=NDEP2(KA,1)
006171      WRITE(6,616)NT1,NT2,NT3,NT4,R,(NDEP3(KA,K),K=1,7),(NTYP2(KB,K),K=1,4),
1(NREA3(KC,K),K=1,2),KD,KE,KF
006245      625     CONTINUE
006245      NLINE=NLINE+2
006247      J=POINT(I)
006251      DATE=LIST(J)
006253      J=J+1
006254      NCOM=LIST(J)
006256      N13=NCOM/10**7
006262      N7=NCOM/10**6-10*N13
006267      N8=NCOM/10**4-N13*10**3-N7*10**2
006302      N9=NCOM/100-(NCOM/10**4)*100

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DATA ITM
DESCRIP
SPECS
TEST SCP

REFERENC

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006311      N10=NCOM-(NCOM/100)*100
006316      J=J+N13+1
006321      IF(N7.EQ.0)GO TO 116
006322      NLINE=NLINE+1
006323      INEX=2
006324      GO TO 112
006324  96   CONTINUE
006324      K=J
006326      J=J+14
006327      WRITE(6,524)(LIST(L),L=K,J)
006341  524  FORMAT(6X,15A4)
006341      N7=N7-1
006343      IF(N7.EQ.0)GO TO 116
006344      NLINE=NLINE+1
006345      J=J+1
006346      GO TO 112
006346  100  CONTINUE
006353  101  STOP
006355  400  N5=I-1
006357      WRITE(6,401)IC,NDRM(N5),(A(J),J=1,18)
006375  401  FORMAT(1X/1X,42HINPUT EXCEEDS 1500, LAST CARD ACCEPTED WAS ,I2.2X,
117.2X,17A4,A1)
006375      GO TO 14
006376  404  WRITE(6,405)
006402  405  FORMAT(1H1,18HINPUT EXCEEDS 3000)
006402      GO TO 101
006403  406  WRITE(6,407)
006407  407  FORMAT(1H1,18HLIST EXCEEDS 30000)
006407      GO TO 101
006410  408  WRITE(6,409)
006414  409  FORMAT(1H1,27HERROR KEYWORDS NOT USED YET)
006414      GO TO 101
006415      END

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END DO


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SUBROUTINE GDPKW
000002   DIMENSION NTYP(50),NTYP2(50,4), NDEP(50),NDEP2(50,4),NDEP3(50,7),
1 NREA(100),NREA2(100),NREA3(100,2), NCEI(50),NCEI2(50),NCEI3(50,3)
2,NCEI4(50,10),NDATE(4),NDRM(1500),POINT(1500),A(80),LIST(30000),
3TYPE(4),DEPT(4),REA(2),DAT(8),NSPEZ(6),TEST(3),NORD(10,3),NCOP(100
4),SORT(1500),NCON(47),ALPH(47),B(100)
5,DIG(3),P(3),NEM(3)
6,JORZ(3),NORZ(3),TTYPER(2),TACTD(5)
7,CR(10),NL(10)
000002   COMMON LIST,POINT,NDRM,SORT,NCT,KIND
000002   COMMON NBLK,NCON,ALPH,N1,N2,N3,N7,DRM,TES,KTD,KTP,KTQ
000002   COMMON NREA,NREA2,NREA3,NTYP,NTYP2,NDEP,NDEP2,NDEP3
000002   COMMON NINES,COR,CR
000002   COMMON KWICK,KWREF,KWKW,KWPN,KOPT
000002   COMMON NSECT,NDATE,NPAGE,NLINE,KDAT,IAND,KNU
000002   INTEGER A,POINT,TYPE,DEPT,DATE,REA,DAT,WORD1,WORD2,R,TEST,SORT,
1ALPH,B,DIG,P,TDAT,TTYPER,TACTD,DRM,TES
2,COR,CR
000002   IF(KWPN.GT.0)NPAGE=1
000005   IF(KWPN.GT.0)NLINE=3
000010   IF(KWPN.GT.0)WRITE(6,523)NSECT,NPAGE,KIND,(NDATE(I),I=1,4),KDAT,
1IAND,KNU
000037   523   FORMAT(1H1,1X,4HPAGE,I2,1H-13,9X,A4,15H INDEXES ISSUED,
12X,4A4,2X,9H SORTED BY,3(1X,A4)/)
000037   DO 110 I=1,NCT
000041   J=POINT(I)+1
000044   N13=LIST(J)/10**7
000051   N7=LIST(J)/10**6-N13*10
000057   N8=LIST(J)/10**4-(LIST(J)/10**6)*100
000072   N9=LIST(J)/100-(LIST(J)/10**4)*100
000103   N10=LIST(J)-(LIST(J)/100)*100
000111   J=J+N13
000112   JJ=NBLK
000113   IF(KIND.NE.COR)GO TO 198
000115   NEW=NDRM(I)/10
000121   R=NDRM(I)-NEW*10+2
000125   R=ALPH(R)
000130   GO TO 105
000130   198   CONTINUE
000130   NEW=NDRM(I)/100
000134   R=NDRM(I)-100*NEW

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000140      DO 104 L=1,47
000141      IF(NCON(L).NE.R)GO TO 104
000144      JJ=ALPH(L)
000146      GO TO 105
000146      104  CONTINUE
000150      105  CONTINUE
000150      JA=J+1
000152      NEMP=SORT(I)/100
000156      KC=SORT(I)-NEMP*100
000162      KA=SORT(I)/10**4
000166      KB=NEMP-KA*100
000172      DO 108 K=1,N3
000173      IF(KC.NE.NREA(K))GO TO 108
000176      KC=K
000176      GO TO 109
000177      108  CONTINUE
000202      KC=1
000203      109  CONTINUE
000203      DO 538 K=1,N2
000205      IF(KA.NE.NDEP(K))GO TO 538
000210      KA=K
000210      GO TO 539
000211      538  CONTINUE
000214      KA=1
000215      539  DO 540 K=1,N1
000217      IF(KB.NE.NTYP(K))GO TO 540
000222      KB=K
000222      GO TO 541
000223      540  CONTINUE
000226      KB=1
000227      541  CONTINUE
000227      IF(KIND.EQ.DRM)GO TO 542
000231      IF(KIND.NE.COR)GO TO 200
000233      NT1=NEW/10**5
000237      NEW=NEW-NT1*10**5
000243      IF(N7.EQ.0)GO TO 111
000244      IF(KWICK.EQ.0)GO TO 111
000245      IF(N7.NF.1)GO TO 201
000246      JB=J+15
000250      WRITE(10,202)CR(NT1),NEW,R,(LIST(JC),JC=JA,JB),(NREA3(KC,K),K=1,2)
000301      202  FORMAT(1X,A2,1H-,15,1H-,A1,6X,15A4,56X,A4,A3)
000301      GO TO 111

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000302 201 JB=J+29
000304 WRITE(10,203)CR(NT1),NEW,R,(LIST(JC),JC=JA,JB),(NREA3(KC,K),K=1,2)
000335 203 FORMAT(1X,A2,1H-,I5,1H-,A1,6X,29A4,A4,A3)
000335 GO TO 111
000336 200 CONTINUE
000336 NT1=NEW/10**3
000342 NT4=NEW-NT1*10**3
000346 IF(KB.EQ.1)NT2=NBLK
000351 IF(KB.EQ.2)NT2=KTD
000354 IF(KB.EQ.3)NT2=KTP
000357 IF(KB.EQ.4)NT2=KTQ
000362 IF(KB.GT.4)NT2=NBLK
000366 IF(KB.LT.1)NT2=NBLK
000372 NT3=NDEP2(KA,1)
000375 IF(N7.EQ.0)GO TO 111
000376 IF(KWICK.EQ.0)GO TO 111
000377 GO TO 543
000377 542 CONTINUE
000377 IF(N7.EQ.0)GO TO 111
000400 IF(KWICK.EQ.0)GO TO 111
000401 IF(N7.NF.1)GO TO 106
000403 JB=J+15
000405 WRITE(10,526)NEW,JJ,(LIST(JC),JC=JA,JB),(NREA3(KC,K),K=1,2)
000432 526 FORMAT(1X,I5,A1,15A4,56X,A4,A3)
000432 GO TO 111
000433 106 JB=J+29
000435 WRITE(10,527)NEW,JJ,(LIST(JC),JC=JA,JB),(NREA3(KC,K),K=1,2)
000463 527 FORMAT(1X,I5,A1,29A4,A4,A3)
000463 GO TO 111
000464 543 IF(N7.NF.1)GO TO 544
000466 JB=J+15
000470 WRITE(10,545)NT1,NT2,NT3,NT4,JJ,(LIST(JC),JC=JA,JB),(NREA3(KC,K),K=1,2)
1=1,2)
000524 545 FORMAT(1X,I2,2A1,1H-,I3,1H-,A1,6X,15A4,56X,A4,A3)
000524 GO TO 111
000525 544 JB=J+29
000527 WRITE(10,546)NT1,NT2,NT3,NT4,JJ,(LIST(JC),JC=JA,JB),(NREA3(KC,K),K=1,2)
1=1,2)
000563 546 FORMAT(1X,I2,2A1,1H-,I3,1H-,A1,6X,29A4,A4,A3)
000563 111 IF(KWREF.EQ.0)GO TO 112
000564 JA=J+15*N7+7*N8+8*N9+1
000573 IF(N10.EQ.0)GO TO 112

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000574      DO 113 K=1,N10
000575      JB=JA+14
000577      IF(KIND.EQ.DRM)WRITE(10,526)NEW,JJ,(LIST(JC),JC=JA,JB),
1(NREA3(KC,K),K=1,2)
000627      IF(KIND.EQ.TES)WRITE(10,545)NT1,NT2,NT3,NT4,JJ,(LIST(JC),JC=JA,JB)
1,(NREA3(KC,K),K=1,2)
000665      IF(KIND.EQ.COR)WRITE(10,202)CR(NT1),NEW,R,(LIST(JC),JC=JA,JB)
1,(NREA3(KC,K),K=1,2)
000720      JA=JA+15
000722      113 CONTINUE
000724      112 IF(KWKW.EQ.0)GO TO 115
000725      JA=J+15*N7+7*N8+8*N9+15*N10+1
000735      N12=LIST(J)
000737      IF(N12.EQ.0)GO TO 115
000740      JA=J+1
000741      DO 114 K=1,N12
000742      JB=JA+14
000744      IF(KIND.EQ.DRM)WRITE(10,526)NEW,JJ,(LIST(JC),JC=JA,JB),
1(NREA3(KC,K),K=1,2)
000774      IF(KIND.EQ.TES)WRITE(10,545)NT1,NT2,NT3,NT4,JJ,(LIST(JC),JC=JA,JB)
1,(NREA3(KC,K),K=1,2)
001032      IF(KIND.EQ.COR)WRITE(10,202)CR(NT1),NEW,R,(LIST(JC),JC=JA,JB)
1,(NREA3(KC,K),K=1,2)
001065      JA=JA+15
001067      114 CONTINUE
001071      115 IF((KWPN.EQ.0).AND.(KOPT.EQ.0))GO TO 110
001077      IF(N9.EQ.0)GO TO 110
001100      J=POINT(I)
001102      NEM1=LIST(J)
001104      NY1=NEM1/10**4
001110      NEMP=NEM1/100
001113      ND1=NEM1-NEMP*100
001115      NM1=NEMP-NY1*100
001120      JA=J+1+N13
001122      JB=JA+12
001124      J=JA+15*N7+7*N8
001130      JA=JA+1
001131      DO 120 K1=1,N9
001133      J=J+1
001135      NFM2=LIST(J)
001137      116 DO 117 K2=1,7
001141      J=J+1

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001143 117 NL(K2)=LIST(J)
001147 IF(KOPT.EQ.0)GO TO 11
C PUT NEM2=DATE IN SAME ORDER AS NEM1.
001150 NEMP=NEM2/100
001153 NEM2=NEM2-100*NEMP
001155 NEM2=NEM2*10**4+NEMP
001162 IF((KOPT.EQ.2).AND.(NEM2.EQ.0))NEM2=NEM1
001171 NY2=NEM2/10**4
001176 NEMP=NEM2/100
001200 ND2=NEM2-NEMP*100
001203 NM2=NEMP-NY2*100
001205 IF(KIND.EQ.DRM)WRITE(10,207)NEW,JJ,NY2,NM2,ND2,(NL(K2),K2=1,7)
001233 207 FORMAT(1X,I5,A1,3HYR-,I2,4H/MO-,I2,5H/DAY-,I2,7A4,87X)
001233 IF(KIND.EQ.TES)WRITE(10,208)NT1,NT2,NT3,NT4,JJ,NY2,NM2,ND2,
1(NL(K2),K2=1,7)
001267 IF(KIND.EQ.COR)WRITE(10,210)CR(NT1),NEW,R,NY2,NM2,ND2,
1(NL(K2),K2=3,7),NL(1),NL(2)
001324 208 FORMAT(1X,I2,2A1,1H-,I3,1H-,A1,3HYR-,I2,4H/MO-,I2,5H/DAY-,I2,7A4,
183X)
001324 210 FORMAT(1X,A2,1H-,I5,1H-,A1,3HYR-,I2,4H/MO-,I2,5H/DAY-,I2,7A4,83X)
001324 11 IF(KWPN.EQ.0)GO TO 120
C PUT NEM2=DATE IN SAME ORDER AS NEM1.
001325 NEMP=NEM2/100
001330 NEM2=NEM2-100*NEMP
001332 NEM2=NEM2*10**4+NEMP
001337 IF((KWPN.EQ.2).AND.(NEM2.EQ.0))NEM2=NEM1
001346 NY2=NEM2/10**4
001353 NEMP=NEM2/100
001355 ND2=NEM2-NEMP*100
001360 NM2=NEMP-NY2*100
001362 NLINE=NLINE+2
001364 IF(NLINE.LE.40)GO TO 10
001366 NPAGE=NPAGE+1
001370 NLINE=3
001371 WRITE(6,523)NSECT,NPAGE,KIND,(NDATE(K2),K2=1,4),KDAT,IAND,KNU
001416 10 CONTINUE
001416 IF(N7.EQ.0)GO TO 400
001417 IF(KIND.EQ.DRM)WRITE(6,205)NEW,JJ,NM1,ND1,NY1,(LIST(JC),JC=JA+JB)
1,NM2,ND2,NY2,(NL(K2),K2=1,7)
001461 205 FORMAT(3X,I5,A1,2X,I2,1H/,I2,1H/,I2,2X,I2A4,2X,I2,1H/,I2,1H/,I2,2X,2A4,1X,
1,2A4,1X,5A4/)
001461 IF(KIND.EQ.TES)WRITE(6,204)NT1,NT2,NT3,NT4,JJ,NM1,ND1,NY1,(LIST(JC)

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001531      1),JC=JA,JB),NM2,ND2,NY2,(NL(K2),K2=1,7)
001531      204  FORMAT(3X,I2,2A1,1H-,I3,1H-,A1,1X,I2,1H/,I2,1H/,I2,1X,I2A4,1X,
001531      IF(KIND.EQ.COR)WRITE(6,206)CR(NT1),NEW,R,NM1,ND1,NY1,(LIST(JC),
001576      206  1JC=JA,JB),NM2,ND2,NY2,(NL(K2),K2=1,7)
001576      FORMAT(3X,A2,1H-,I5,1H-,A1,1X,I2,1H/,I2,1H/,I2,1X,I2A4,1X,
001576      1I2,1H/,I2,1H/,I2,1X,2A4,1X,5A4/)
001577      GO TO 120
001577      400  CONTINUE
001577      IF(KIND.EQ.DRM)WRITE(6,405)NEW,JJ,NM1,ND1,NY1
001633      405  1,NM2,ND2,NY2,(NL(K2),K2=1,7)
001633      FORMAT(3X,I5,A1,2X,I2,1H/,I2,1H/,I2,2X,4BX,2X,I2,1H/,I2,1H/,I2,2X,2A4,1X,
001633      1,2A4,1X,5A4/)
001633      IF(KIND.EQ.TES)WRITE(6,404)NT1,NT2,NT3,NT4,JJ,NM1,ND1,NY1,
001675      404  1 NM2,ND2,NY2,(NL(K2),K2=1,7)
001675      FORMAT(3X,I2,2A1,1H-,I3,1H-,A1,1X,I2,1H/,I2,1H/,I2,1X,4BX,1X,
001675      1I2,1H/,I2,1H/,I2,1X,2A4,1X,5A4/)
001675      IF(KIND.EQ.COR)WRITE(6,406)CR(NT1),NEW,R,NM1,ND1,NY1,
001734      406  1 NM2,ND2,NY2,(NL(K2),K2=1,7)
001734      FORMAT(3X,A2,1H-,I5,1H-,A1,1X,I2,1H/,I2,1H/,I2,1X,4BX,1X,
001734      1I2,1H/,I2,1H/,I2,1X,2A4,1X,5A4/)
001737      120  CONTINUE
001737      110  CONTINUE
001742      RETURN
001742      END

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SUBROUTINE GDPUP
C   UPDATES DRM FILE
000002   DIMENSION NTYP(50),NTYP2(50,4), NDEP(50),NDEP2(50,4),NDEP3(50,7),
1 NREA(100),NREA2(100),NREA3(100,2), NCEI(50),NCEI2(50),NCEI3(50,3)
2,NCEI4(50,10),NDATE(4),NDRM(1500),POINT(1500),A(80),LIST(30000),
3TYPE(4),DEPT(4),REA(2),DAT(8),NSPEC(6),TEST(3),NORD(10,3),NCOP(100
4),SORT(1500),NCON(47),ALPH(47),B(100)
5,DIG(3),P(3),NEM(3)
6,JORZ(3),NORZ(3),TTYPE(2),TACTD(5)
7,IH(20,2),IHI(20,8),CR(10)
000002   COMMON LIST,POINT,NDRM,SORT,NCT,KIND
000002   COMMON NBLK,NCON,ALPH,N1,N2,N3,N7,DRM,TES,KTD,KTP,KTQ
000002   COMMON NREA,NREA2,NREA3,NTYP,NTYP2,NDEP,NDEP2,NDEP3
000002   COMMON NINES,COR,CR
000002   INTEGER A,POINT,TYPE,DEPT,DATE,REA,DAT,WORD1,WORD2,R,TEST,SORT,
1ALPH,8,DIG,P,TDATE,TTYPE,TACTD,DRM,TES
2,COR,CR
000002   REWIND8
000004   REWIND9
000006   REWIND12
000010   NEW=0
000011   73 READ(8)LEW,LCOM,LATE,L13,L7,L8,L9,L10,L11,L12
000040   IF(LEW.NE.9999999)GO TO 72
000042   IF(NEW.EQ.9999999)GO TO 53
000044   52 READ(12)NEW,NCOM,DATE,N13,N7,N8,N9,N10,N11,N12
000073   IF(NEW.EQ.9999999)GO TO 53
000075   IRET=1
000076   GO TO 300
000077   200 CONTINUE
000077   IF(M13.NE.0)READ(M)(B(K),K=1,M13)
000112   100 IF(M7.EQ.0)GO TO 201
000113   READ(M)IC,(A(L),L=1,15)
000126   IF(A(1).EQ.NINES)GO TO 202
000130   201 WRITE(9)MEW,MCOM,MATE,M13,M7,M8,M9,M10,M11,M12
000157   IF(M13.NE.0)WRITE(9)(B(K),K=1,M13)
000172   IF(M7.EQ.0)GO TO 102
000173   WRITE(9)IC,(A(L),L=1,15)
000206   M7=M7-1
000210   203 IF(M7.EQ.0)GO TO 102
000211   DO 101 K=1,M7
000213   READ(M)IC,(A(L),L=1,15)

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000226 101 WRITE(9)IC,(A(L),L=1,15)
000244      GO TO 102
000244 202 M7=M7-1
000246      WRITE(6,204)MEW
000253 204 FORMAT(1X,36HTRIED TO DELETE ITEM NOT ON FILE FOR,2X,I7)
000253      WRITE(9)MEW,MCOM,MATE,M13,M7,M8,M9,M10,M11,M12
000302      IF(M13.NE.0)WRITE(9)(B(K),K=1,M13)
000315      GO TO 203
000316 102 IF(M8.EQ.0)GO TO 104
000317      DO 103 K=1,M8
000321      READ(M) LTWO,(NSPEC(L),L=1,6)
000334 103 WRITE(9)LTWO,(NSPEC(L),L=1,6)
000352 104 IF(M9.EQ.0)GO TO 108
000353      DO 105 K=1,M9
000355      READ(M) TDATE,(TTYPE(L),L=1,2),(TACTD(L),L=1,5)
000376 105 WRITE(9)TDATE,(TTYPE(L),L=1,2),(TACTD(L),L=1,5)
000422 108 IF(M10.EQ.0)GO TO 110
000423      DO 109 K=1,M10
000425      READ(M) IC,(A(L),L=1,15)
000440 109 WRITE(9)IC,(A(L),L=1,15)
000456 110 IF(M11.EQ.0)GO TO 112
000457      DO 111 K=1,M11
000461      READ(M) IC,(A(L),L=1,15)
000474 111 WRITE(9)IC,(A(L),L=1,15)
000512 112 IF(M12.EQ.0)GO TO 114
000513      DO 113 K=1,M12
000515      READ(M) (A(L),L=1,15)
000526 113 WRITE(9)(A(L),L=1,15)
000542 114 CONTINUE
000542      GO TO(52,73,74,301),IRET
000552 72 IF(NEW.NE.9999999)GO TO 74
000554 75 IRET=2
000555 400 M=8
000556      M13=L13
000560      M7=L7
000561      M8=L8
000563      M9=L9
000564      M10=L10
000566      M11=L11
000567      M12=L12
000571      MEW=LEW
000572      MCOM=LCOM
  
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000574      MATE=LATE
000575      GO TO 200
000576  74    READ(12)NEW,NCOM,DATE,N13,N7,N8,N9,N10,N11,N12
000625      IF(NEW.EQ.9999999)GO TO 75
000627  77    IF(NEW.EQ.LEW)GO TO 79
000631      IF(NEW.GT.LEW)GO TO 76
000633      IRET=3
000634  300   M=12
000635      M13=N13
000637      M7=N7
000640      M8=N8
000642      M9=N9
000643      M10=N10
000645      M11=N11
000646      M12=N12
000650      MEW=NEW
000651      MCOM=NCOM
000653      MATE=DATE
000654      GO TO 200
000655  76    IRET=4
000656      GO TO 400
000657  301   READ(8)LEW,LCOM,LATE,L13,L7,L8,L9,L10,L11,L12
000706      IF(LEW.EQ.9999999)GO TO 78
000710      GO TO 77
000711  78    IRET=1
000712      GO TO 300
000713  79    IRET=2
C  FIRST CHECK TO SEE IF DEPT,TYPE,OR REACTOR OR DATE CHANGED
000714      MCOM=0
000715      KEM=NCOM/10**4
000721      LEM=LCOM/10**4
000725      IF(KEM.GT.1)MCOM=KEM*10**4
000733      IF(KEM.LE.1)MCOM=LEM*10**4
000741      NEMP=NCOM/100
000744      KEM=NEMP-KEM*100
000746      LEMP=LCOM/100
000751      LEM=LEMP-LEM*100
000754      IF(KEM.GT.1)MCOM=MCOM+KEM*100
000762      IF(KEM.LE.1)MCOM=MCOM+LEM*100
000770      KEM=NCOM-NEMP*100
000774      LEM=LCOM-LEMP*100
000777      IF(KEM.GT.1)MCOM=MCOM+KEM

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001003      IF(KEM.LE.1)MCOM=MCOM+LEM
001007      MEW=NEW
001011      MATE=DATE
001012      IF(DATE.EQ.0)MATE=LATE
C  NOW UPDATE N13 = NO. OF DATA ITEMS. A MATCH WILL DELETE.NO MATCH WILL ADD.
C  SORTED BY DATA ITEM. ONE DATA ITEM TO ONE WORD CONVERTED TO 8 DIGIT NUMERIC.
C  FOR EXAMPLE C-100 IS CONVERTED TO 13020101 TWO DIGITS PER CHARACTER WITH
C  THE DASH MISSING AND ASSUMED POSITIONED AFTER THE FIRST CHARACTER.

001014      K=0
001015      IFLAG=0
001016      IF(N13.EQ.0)GO TO 221
001017      READ(12)(A(J),J=1,N13)
001031  221  IF(N7.EQ.0)GO TO 220
001032      READ(12)IC,(POINT(J),J=1,15)
001045      IF((IC.EQ.2).AND.(POINT(1).EQ.NINES))IFLAG=NINES
001056  220  CONTINUE
001056      IF(N13.EQ.0)GO TO 7
001057      IF(L13.EQ.0)GO TO 9
001060      READ(8)(B(J),J=1,L13)
001072      L=1
001073      DO 6 I=1,N13
001075      IF(L.GT.L13)GO TO 5
001100      ILO=L
001100      DO 2 J=ILO,L13
001101      IF(A(I).EQ.B(J))GO TO 3
001105      IF(A(I).LT.B(J))GO TO 4
001110      IF(IFLAG.EQ.NINES)GO TO 2
001112      K=K+1
001114      L=J+1
001115      LIST(K)=B(J)
001120      GO TO 2
001120  3    L=J+1
001122      GO TO 6
001123  4    L=J
001125      GO TO 5
001125  2    CONTINUE
001130      L=L13+1
001131  5    K=K+1
001133      LIST(K)=A(I)
001136  6    CONTINUE
001141      IF(L.GT.L13)GO TO 11
001144      IF(IFLAG.EQ.NINES)GO TO 11

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001146      DO 27 J=L,L13
001147      K=K+1
001151  27    LIST(K)=B(J)
001156      GO TO 11
001156  7    IF(L13.EQ.0)GO TO 11
001157      READ(8)(B(J),J=1,L13)
001171      IF(IFLAG.EQ.NINES)GO TO 11
001173      DO 8 I=1,L13
001175      K=K+1
001177  8    LIST(K)=B(I)
001204      GO TO 11
001204  9    DO 10 I=1,N13
001206      K=K+1
001210  10   LIST(K)=A(I)
001215  11   M13=K
C   NOW UPDATE N7=NO.OF ROWS OF DESCRIPTION,AN 02 CARD WITH FOUR NINES IN FIRST
C   FOUR COLUMNS OF DESC. WILL DELETE THE DRM FROM THE FILE, OTHERWISE THE OLD
C   DESCRIPTION IS REPLACED WITH THE NEW DESC.TO DELETE JUST THE DESCRIPTION,
C   ENTER ONE NO.2 CARD WITH THE DESCRIPTION ALL BLANK.
C   NEW INFORMATION FOR A DRM MAY BE ENTERED AT THE SAME TIME A DRM IS DELETED
001217      M7=0
001220      IF(N7.EQ.0)GO TO 20
001221      IF(IFLAG.EQ.NINES)GO TO 206
001223      DO 207 J=1,15
001224  207   IF(POINT(J).NE.NBLK)GO TO 208
001231  206   IF(N7.EQ.1)GO TO 15
001233      DO 14 JA=2,N7
001235      READ(12)IC,(A(J),J=1,15)
001250      K=K+1
001252      LIST(K)=IC
001254      DO 14 J=1,15
001256      K=K+1
001260  14   LIST(K)=A(J)
001267  15   IF(L7.EQ.0)GO TO 17
001270      DO 16 JA=1,L7
001272  16   READ(8)IC,(A(J),J=1,15)
001310  17   M7=0
001311      IF(((IFLAG.EQ.NINES).AND.(N7.GT.1))M7=N7-1
001323      GO TO 27
001324  208   K=K+1
001326      LIST(K)=IC
001330      DO 205 J=1,15

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001332      K=K+1
001334      205  LIST(K)=POINT(J)
001340      IF(L7.EQ.0)GO TO 602
001341      DO 601 JA=1,L7
001343      601  READ(8)IC,(A(J),J=1,15)
001361      602  CONTINUE
001361      IF(N7.EQ.1)M7=1
001364      IF(N7.EQ.1)GO TO 22
001366      DO 12 I=2,N7
001367      READ(12)IC,(A(J),J=1,15)
001402      18  K=K+1
001404      LIST(K)=IC
001406      DO 19 J=1,15
001410      K=K+1
001412      19  LIST(K)=A(J)
001416      12  CONTINUE
001421      M7=N7
001422      GO TO 22
001422      20  M7=L7
001424      IF(L7.EQ.0)GO TO 22
001424      DO 21 I=1,L7
001426      READ(8)IC,(A(J),J=1,15)
001441      K=K+1
001443      LIST(K)=IC
001445      DO 21 J=1,15
001447      K=K+1
001451      21  LIST(K)=A(J)
001460      22  CONTINUE
C  NOW UPDATE N8=NO.OF 4 CARDS(CEI AND SPEC).THIS IS SORTED BY CEI NO. BUT
C  NOT SPEC PARA.NO.UPDATE ONLY ALLOWS ADDITIONS.NO CHANGES OR DELETIONS.
C  NEW ENTRY IS ADDED IN CEI SEQUENCE BUT DISREGARDING SPEC PARA NO.

001460      L1=0
001461      L=1
001462      I=0
001463      J=0
001464      500  I=I+1
001466      IF(I.GT.N8)GO TO 507
001471      READ(12)NTWO,(NSPEC(JA),JA=1,6)
001504      501  J=J+1
001506      IF(J.GT.L8)GO TO 31
001511      READ( 8)LTWO,(A(JA),JA=1,6)
001524      502  CONTINUE

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001524      IF(NTWO.LT.LTWO)GO TO 28
001527      IF(NTWO.GT.LTWO)GO TO 29
001531      IF(IFLAG.EQ.NINES)GO TO 222
001533      DO 223 JA=1,6
001534 223    IF(NSPEC(JA).NE.NBLK)GO TO 222
001540          L1=L1+1
001542          GO TO 224
001542 222    CONTINUE
001542          K=K+1
001544          LIST(K)=NTWO
001546          DO 25 JA=1,6
001550              K=K+1
001552 25      LIST(K)=NSPEC(JA)
001556 224    CONTINUE
001556          IF(IFLAG.EQ.NINES)GO TO 500
001560          K=K+1
001562          LIST(K)=LTWO
001564          DO 26 JA=1,6
001566              K=K+1
001570 26      LIST(K)=A(JA)
001574          GO TO 500
001575 28      K=K+1
001577          LIST(K)=NTWO
001601          DO 503 JA=1,6
001603              K=K+1
001605 503    LIST(K)=NSPEC(JA)
001611          I=I+1
001612          IF(I.GT.N8)GO TO 504
001615          READ(12)NTWO,(NSPEC(JA),JA=1,6)
001630          GO TO 502
001631 29      IF(IFLAG.EQ.NINES)GO TO 501
001633          K=K+1
001635          LIST(K)=LTWO
001637          DO 30 JA=1,6
001641              K=K+1
001643 30      LIST(K)=A(JA)
001647          GO TO 501
001650 31      K=K+1
001652          LIST(K)=NTWO
001654          DO 32 JA=1,6
001656              K=K+1
001660 32      LIST(K)=NSPEC(JA)

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001664      I=I+1
001665      IF(I.GT.N8)GO TO 36
001670      READ(12)NTWO,(NSPEC(JA),JA=1,6)
001703      GO TO 31
001704      504  IF(IFLAG.EQ.NINES)GO TO 34
001706      505  IF(J.GT.L8)GO TO 36
001712      508  K=K+1
001714          LIST(K)=LTWO
001716          DO 506 JA=1,6
001720          K=K+1
001722      506  LIST(K)=A(JA)
001726      600  CONTINUE
001726          J=J+1
001730          IF(J.GT.L8)GO TO 36
001733          READ(8)LTWO,(A(JA),JA=1,6)
001746          GO TO 508
001747      507  IF(IFLAG.EQ.NINES)GO TO 34
001751          GO TO 600
001752      34   J=J+1
001754          IF(J.GT.L8)GO TO 36
001757          READ(8)LTWO,(A(JA),JA=1,6)
001772          GO TO 34
001773      36   M8=N8+L8-L1
001776          IF(IFLAG.EQ.NINES)M8=N8-L1
  
```

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C  NOW UPDATE N9= NO OF ACTIVITIES.(NO.5 CARD)
C  MATCHES ON DATE,EVENT,AND/OR REFERENCE. A MATCH WILL DELETE. THERE CAN BE MOR
C  E THAN ONE MATCH. NO MATCHES WILL ADD.
C  IF ANY FIELD BEEGINS WITH 9999 WILL ONLY MATCH ON REMAINING FIELDS FOR
C  DELETION. MUST MATCH ON BLANK FIELD TOO UNLESS 9999IS SPECIFIED.
C  A 9999      9999      9999 WILL CAUSE ALL THE OLD ACTIVITIES TO BE DELETED.
C  NEW ACTIVITIES MAY BE ENTERED ON SAME UPDATE. PLACE  A 9999      9999      9999
C  CARD AHEAD OF NEW ENTRIES.
  
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002001      IF(L9.EQ.0)GO TO 39
002002      IF(IFLAG.NE.NINES)GO TO 210
002003      DO 211 I=1,L9
002005      211  READ(8)(A(J),J=1,8)
002021          L9=0
002021          GO TO 39
002022      210  CONTINUE
002022          JB=K
002024          DO 37 I=1,L9
002025          JA=K+1
  
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002027      K=K+8
002030      37  READ(8) (LIST(J),J=JA,K)
002045      39  IF(N9.EQ.0)M9=L9
002050      IF(N9.EQ.0)GO TO 44
002051      IF(L9.NE.0)GO TO 250
002052      DO 38 I=1,N9
002054      JA=K+1
002056      K=K+8
002057      38  READ(12) (LIST(J),J=JA,K)
002074      M9=N9
002075      GO TO 44
002075      250  DO 254 I=1,N9
002077      READ(12) (A(J),J=1,8)
002110      JEMP=0
002111      ILO=JB-7
002113      DO 252 J=1,L9
002115      ILO=ILO+8
002117      IUP=ILO+7
002121      NEMP=0
002122      IF(LIST(ILO).EQ.999999)GO TO 252
002124      DO 251 JJ=ILO,IUP
002125      NEMP=NEMP+1
002127      IF((NEMP.EQ.1).AND.(A(1).EQ.999900))GO TO 251
002135      IF((NEMP.EQ.2).OR.(NEMP.EQ.3).AND.(A(2).EQ.NINES))GO TO 251
002150      IF((NEMP.GT.3).AND.(A(4).EQ.NINES))GO TO 251
002160      IF(A(NEMP).NE.LIST(JJ))GO TO 252
002163      251  CONTINUE
002166      WRITE(6,261) (LIST(JJ),JJ=ILO,IUP),LEW
002201      261  FORMAT(2X,7HDELETED,3X,I6,2X,2A4,2X,5A4,3X,3HFOR,2X,I7)
002201      LIST(ILO)=999999
002204      JEMP=1
002205      252  CONTINUE
002210      IF(JEMP.NE.0)GO TO 254
002211      IF(A(1).EQ.999900)GO TO 254
002213      IF(A(2).EQ.NINES)GO TO 254
002215      IF(A(4).EQ.NINES)GO TO 254
002216      DO 253 J=1,8
002220      K=K+1
002222      253  LIST(K)=A(J)
002226      254  CONTINUE
002231      NEMP=0
002232      JEMP=0

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002233      ILO=JH+1
002235      DO 255 J=ILO,K,8
002236      IF(LIST(J).NE.999999)GO TO 255
002241      JJ=J+8
002242 258    IF(JJ.GT.K)GO TO 255
002246      IF(LIST(JJ).NE.999999)GO TO 257
002250      JJ=JJ+8
002251      GO TO 258
002252 257    CONTINUE
002252      IUP=J+7
002254      DO 256 JG=J,IUP
002255      LIST(JG)=LIST(JJ)
002260 256    JJ=JJ+1
002263      JJ=JJ-8
002265      LIST(JJ)=999999
002267 255    CONTINUE
002272      DO 259 J=ILO,K,8
002274      IF(LIST(J).NE.999999)GO TO 259
002277      NEMP=J-1
002300      GO TO 260
002301 259    CONTINUE
002304 260    CONTINUE
002304      K=NEMP
002306      IF(NEMP.LE.ILO)M9=0
002311      IF(NEMP.GT.ILO)M9=(NEMP+1-ILO)/8
002316 44    CONTINUE
C NOW UPDATE N10=NO.OF ROWS OF DOCUMENT REFERENCES.CARD CODE GOES FROM 6
C THROUGH 19 AND IS SORTED BY CARD CODE. A MATCH ON CARD CODE REPLACES THAT
C ROW WITH NEW INFO. ENTERED-NO MATCH ADDS ON.

002316      J1=N10
002320      J2=L10
002321      IRET=1
002322      NEMP=K
002324 45    I=0
002325      J=0
002326      IF(J1.EQ.0)GO TO 54
002327      IF(J2.EQ.0)GO TO 57
002330      IF(IFLAG.EQ.NINES)GO TO 214
002332 47    I=I+1
002334      IF(I.GT.J1)GO TO 56
002337      J=J+1
002340      IF(J.GT.J2)GO TO 59
  
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002343      READ(12) IC, (A(L), L=1, 15)
002356      85 READ(8) JIC, (B(L), L=1, 15)
002371      50 IF(IC.LT.JIC) GO TO 48
002374      IF(IC.GT.JIC) GO TO 51
002376      K=K+1
002377      LIST(K)=IC
002401      DO 46 L=1, 15
002403      K=K+1
002405      46 LIST(K)=A(L)
002411      GO TO 47
002412      48 K=K+1
002414      LIST(K)=IC
002416      DO 49 L=1, 15
002420      K=K+1
002422      49 LIST(K)=A(L)
002426      I=I+1
002427      IF(I.GT.J1) GO TO 60
002432      READ(12) IC, (A(L), L=1, 15)
002445      GO TO 50
002446      51 K=K+1
002450      LIST(K)=JIC
002452      DO 84 L=1, 15
002454      K=K+1
002456      84 LIST(K)=B(L)
002462      J=J+1
002463      IF(J.GT.J2) GO TO 61
002466      GO TO 85
002466      54 IF(J2.EQ.0) GO TO 62
002467      IF(IFLAG.EQ.NINES) GO TO 214
002471      56 J=J+1
002473      IF(J.GT.J2) GO TO 62
002476      READ(8) JIC, (B(L), L=1, 15)
002511      60 K=K+1
002513      LIST(K)=JIC
002515      DO 55 L=1, 15
002517      K=K+1
002521      55 LIST(K)=B(L)
002525      GO TO 56
002526      57 I=I+1
002530      IF(I.GT.J1) GO TO 62
002533      59 READ(12) IC, (A(L), L=1, 15)
002546      61 K=K+1

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002550      LIST(K)=IC
002552      DO 58 L=1,15
002554      K=K+1
002556      58  LIST(K)=A(L)
002562      GO TO 57
002563      214  DO 215 J=1,J2
002565      215  READ(8) JIC, (B(L),L=1,15)
002603      GO TO 57
002603      62  CONTINUE
002603      GO TO(63,64),IRET
002611      63  M10=(K-NEMP)/16
002615      IRET=2
002616      NEMP=K
002617      J1=N11
002620      J2=L11
C  NOW UPDATE N11=NO.OF ROWS OF DOCUMENT REFERENCES. UPDATE SAME AS N10.
002622      GO TO 45
002622      64  M11=(K-NEMP)/16
C  NOW UPDATE N12=NO.OF ROWS OF KEYWORD ENTRIES. JUST ADDS NEW ENTRIES AT
C  BEGINNING OF LIST AND OLD ENTRIES WILL BE ADDED AT END UNLESS ONE (ANYONE)
C  OF THE NEW ENTRIES HAS 9999 IN COL.S 17-20. A 9999 ENTRY WILL CAUSE ALL
C  THE OLD ENTRIES TO BE DELETED.
002626      NEMP=K
002627      JJ=0
002627      IF(N12.EQ.0)GO TO 68
002630      DO 65 I=1,N12
002632      READ(12) (A(L),L=1,15)
002643      IF(A(1).NE.NINES)GO TO 66
002645      JJ=NINES
002646      GO TO 65
002646      66  DO 67 J=1,15
002650      K=K+1
002652      67  LIST(K)=A(J)
002656      65  CONTINUE
002661      IF(JJ.NE.NINES)GO TO 68
002663      217  IF(L12.EQ.0)GO TO 69
002664      DO 216 I=1,L12
002666      216  READ(8) (A(L),L=1,15)
002702      69  M12=(K-NEMP)/15
002706      GO TO 71
002707      68  IF(IFLAG.EQ.NINES)GO TO 217
002711      IF(L12.EQ.0)GO TO 69

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002712      DO 70 I=1,L12
002714      READ(8)(A(L),L=1,15)
002725      DO 70 J=1,15
002727      K=K+1
002731      70  LIST(K)=A(J)
002740      GO TO 69
C  END OF UPDATE FOR ONE RECORD. NOW WRITE TO TAPE 9.
002740      71  NEMP=0
002741      IF(M13.NE.0)NEMP=1
002743      IF(M7.NE.0)NEMP=1
002745      IF(M8.NE.0)NEMP=1
002747      IF(M9.NE.0)NEMP=1
002751      IF(M10.NE.0)NEMP=1
002753      IF(M11.NE.0)NEMP=1
002755      IF(M12.NE.0)NEMP=1
002757      IF((IFLAG.EQ.NINES).AND.(NEMP.EQ.0))GO TO 73
002766      WRITE(9)MEW,MCOM,MATE,M13,M7,M8,M9,M10,M11,M12
003015      K=0
003016      IF(M13.EQ.0)GO TO 86
003017      ILO=K+1
003021      K=K+M13
003022      WRITE(9)(LIST(J),J=ILO,K)
003034      86  IF(M7.EQ.0)GO TO 88
003035      DO 87 I=1,M7
003037      ILO=K+1
003041      K=K+16
003042      87  WRITE(9)(LIST(J),J=ILO,K)
003057      88  IF(M8.EQ.0)GO TO 90
003060      DO 89 I=1,M8
003062      ILO=K+1
003064      K=K+7
003065      89  WRITE(9)(LIST(J),J=ILO,K)
003102      90  IF(M9.EQ.0)GO TO 92
003103      DO 91 I=1,M9
003105      ILO=K+1
003107      K=K+8
003110      91  WRITE(9)(LIST(J),J=ILO,K)
003125      92  IF(M10.EQ.0)GO TO 80
003126      DO 93 I=1,M10
003130      ILO=K+1
003132      K=K+16
003133      93  WRITE(9)(LIST(J),J=ILO,K)

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003150      80      IF(M11.FQ.0)GO TO 82
003151          DO 81 I=1,M11
003153          ILO=K+1
003155          K=K+16
003156      81      WRITE(9) (LIST(J),J=ILO,K)
003173      82      IF(M12.EQ.0)GO TO 73
003174          DO 83 I=1,M12
003176          ILO=K+1
003200          K=K+15
003201      83      WRITE(9) (LIST(J),J=ILO,K)
003216          GO TO 73
003216      53      CONTINUE
003216          NEW=9999999
003220          DATE=0
003221          N13=0
003222          NCOM=0
003223          WRITE(9)NEW,NCOM,DATE,N13,N13,N13,N13,N13,N13,N13
003252          RETURN
003253          END

```