This Ageforce Aggregate Model provides a quick response force prediction tool for any force which can be defined in year-groups (up to 30) with associated retention rates. There are two options available to handle accessions to the force. The first is where a user provides accession numbers for each simulation year. The second is where a user provides a desired force level and the simulation year it wants to attain that level; the required accessions each year are then calculated by the model.
Item 20 continued.

The model simulates losses and accessions for up to 30 years with various displays available. All interaction is on-line with the Air Force Manpower and Personnel Center's computer.
- AGEFORCE -
A FORCE STRUCTURE AGEING MODEL

USERS MANUAL

DECEMBER 1979

SYSTEMS SOFTWARE & DEVELOPMENT BRANCH
SYSTEMS DEVELOPMENT & SUPPORT DIVISION
DIRECTORATE OF PERSONNEL DATA SYSTEMS
AIR FORCE MANPOWER & PERSONNEL CENTER
RANDOLPH AFB, TEXAS 78148

80 9 8 170
-AGEFORCE-
A FORCE STRUCTURE AGEING MODEL

USERS' MANUAL

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# USERS' MANUAL

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SECTION 1. GENERAL

1.1 Purpose of the User's Manual. The objective of the User's Manual for RP/AGEFORCE is to provide the user's non-ADP personnel with the information necessary to effectively use the system.

1.2 Project References. RP/AGEFORCE is a generalized, online ageing model used to "game" the effects of various accessions and losses on a predetermined force. The program was developed at AFMPC for any user with access to the AFMPC computer.

Applicable documents are:


1.3 Terms and Abbreviations

a. AGER - refers to RP/AGEFORCE

b. FORCE - user's group to be aged (i.e., active airmen, active officers, civilians, etc.)

c. FORCE STRUCTURE - Any population that can be classified (structured) by year-group, could be commissioned, enlisted, minority, civilian, etc.

1.4 Security and Privacy. AGER operates in an "UNCLASSIFIED" environment.

SECTION 2. SYSTEM SUMMARY

2.1 System Application. AGER is a quick-response prediction tool that can be executed from the user's work area over a Burroughs TD-800 terminal.

a. AGER provides some flexibility as the user has two options for inputting beginning force structures and retention rates. The first option is to enter force structures and retention rates for each run; desirable for one-time runs. The second option is to input force and rate data and save it on a computer disk file for subsequent use and reuse. With either option the user can change data by using AGER's update capability.
b. The user can also select either of two operating modes for AGER. The first is the simple ageing mode where retention rates are applied against force levels; accessions, if provided, are added in. The second is the steady-state mode where the goal is to attain a desired force level after a specified number of years. The model calculates the number of accessions needed each year to first attain the steady-state force, and then maintain that steady state force throughout the ageing period. In either mode, the resulting report shows the force distribution by year-group after each year of ageing, the losses each year, and the total force level each year.

2.2 System Operation. A user can run AGER anytime computer resources are available. The program is usually available during normal duty hours.

2.3 System Configuration. AGER runs on the BURROUGHS 6700 computer located at AFMPC, Randolph AFB, Texas. The system uses TD-800 terminals at various AFMPC user locations. All interaction is between these two devices.

2.4 System Organization. The system contains only one program, RP/AGEFORCE, which does all the processing.

2.5 Performance.

a. Input - all user inputs are via TD-800 terminal. The system asks for each input needed and states how it is to be entered.

b. Output - output is via TD-800 terminal transmitted directly to the user.

c. Response time - since AGER is on-line, response time is relatively quick.

d. Limitation - limitations are interactively provided by the system when it asks for an input.

e. Error rate - the system has built-in checks for input data errors. If an error exists in the input data, the system asks for the data again.

f. Processing time - due to user interaction throughout the processing cycle, processing time goes unnoticed.

g. Flexibility - AGER takes any force the user wishes to define by thirty or less year-groups whether it be Active Airmen, minority female officers, or navigators.
2.6 Data Base. The files that are referenced, supported, and kept current by AGER follow:

a. User's Force File. This file is referenced by AGER when the user asks for it. The twenty force groups are maintained as integer values with the twenty sets of retention rates maintained as real numbers.

b. Utilization File. This file is referenced and updated every time AGER runs.

2.7 General Description of Inputs, Processing, Outputs.

a. Inputs. All AGER inputs are accomplished via on-line interface with the user. The technique used is a branching method which asks "YES/NO" and specific data questions. The result of the inputs leads to a force with corresponding retention rates and various parameters for operating modes.

b. Processing. All processing is done on-line by the one program, RP/AGEFORCE.

c. Output. The output product the user receives is a TD-800 display showing the aged force by year-group and ageing years. An example is provided as Attachment 2.

SECTION 3. STAFF FUNCTIONS RELATED TO TECHNICAL OPERATIONS

3.1 INITIALIZATION. To run AGER a user must first follow standard sign-on procedures:

USER: sign-on by entering usercode and password
REMOTE RESPONSE: ENTER FUNCTION
USER: RUN AGE
AGER is now ready to run.

3.2 STAFF INPUT REQUIREMENTS. Before running AGER, a user should gather his force, retention rate and accessions data.

a. Cause of Input - inputs are required when displays from AGER ask for them. The force structures, retention rates and accessions will all be asked for separately.

b. Time of Input - all inputs should be prepared prior to running AGER.

c. Origin of Input - each user is responsible for gathering his own input data. The force must be defined in year-groups, retention rates by year-group, and accessions by the ageing year they will be gained.
d. Medium of Input - all input is via TD-800 series terminals.

3.2.1 Input Formats. AGER is tutorial; displays from the program will lead the user through required tasks. Following is a numerically ordered list of the typical displays AGER presents. In the next section, 3.2.2 Composition Rules, there is a corresponding list of descriptions for the displays and explanations of the inputs needed. Note that there are many ways to get through the program (see Attachment 3); the displays below represent the typical way when a user wants to make a data file and use force and rate groups from that file.

(1) AGGREGATE MODEL TO AGE SELECTED ELEMENTS OF THE FORCE. ENTER YOUR 7-DIGIT AUTOVON NUMBER (I.E. 487-2233). THIS DATA IS ESSENTIAL FOR FILE MAINTENANCE AND MAY BE USED TO VERIFY UTILIZATION. IF YOU DESIRE TO START OVER AGAIN WHILE WORKING IN AGE FORCE JUST ENTER AN 'END' RESPONSE WHEN A 'YES' OR 'NO' RESPONSE IS REQUESTED. BE CAREFUL THOUGH, IF YOU ENTER AN 'END' AT ANY OTHER TIME THE PROGRAM MAY TERMINATE ABNORMALLY.

(2) YOU DO NOT HAVE A SAVE FILE FOR FORCE AND RATE DATA. DO YOU WANT TO CREATE A PERMANENT FILE? (ENTER YES OR NO)

(3) DO YOU WISH TO MAKE CHANGES TO YOUR DATA? (ENTER YES OR NO)

(4) DO YOU WISH TO CHANGE ANY OF YOUR FORCE GROUPS? (ENTER YES OR NO)

(5) THERE ARE 20 FORCE GROUPS AVAILABLE FOR YOUR USE. ENTER THE NUMERIC CODE (1-20) OF THE GROUP YOU WISH TO USE.

(6) THE CONFIGURATION OF GROUP (1-20) IS PRESENTLY AS FOLLOWS:
   1-10 (VALUES OF FORCE LEVELS IN YR-GROUPS 1-10)
   11-20 (VALUES OF FORCE LEVELS IN YR-GROUPS 11-20)
   21-30 (VALUES OF FORCE LEVELS IN YR-GROUPS 21-30)
   TO CHANGE THE FORCE LEVELS, INPUT YEARGROUP, LEVEL, YEARGROUP, LEVEL, ETC., (EX: 2, 364, 12, 1024, *) TERMINATE INPUT WITH AN ASTERISK.
   YOU CAN CHANGE ANY OR ALL YEAR GROUPS THIS WAY.

(7) DO YOU WISH TO CHANGE THE RETENTION RATES? (ENTER YES OR NO)

(8) RETENTION RATE GROUPS 1 THRU 20 ARE AVAILABLE. ENTER THE NUMERIC CODE OF THE GROUP YOU WISH TO CHANGE.
(9) THE CURRENT RATES ARE:

YRS
1-10 (RETENTION RATES FOR YEAR GROUPS 1-10)
11-20 (RETENTION RATES FOR YEAR GROUPS 11-20)
21-29 (RETENTION RATES FOR YEAR GROUPS 21-29)

TO CHANGE RATES, INPUT YEARGROUP, RATE, YEARGROUP, RATE, ETC.
(EX: 2, .463, 15, .376, *).
TERMINATE INPUT WITH AN ASTERISK.
YOU CAN ENTER ANY OR ALL RATES THIS WAY.

(10) HOW MANY YEARS DO YOU WISH TO AGE THE FORCE 1-29?

(11) HOW MANY YEAR GROUPS DO YOU WISH TO DISPLAY 1-30?

(12) IF YOU WANT TO ACHIEVE AND MAINTAIN A STEADY-STATE FORCE
THEN ENTER THE FORCE LEVEL YOU WANT TO ACHIEVE. OTHERWISE
ENTER Ø (ZERO).

(13) HOW MANY YEARS DO YOU WANT TO TAKE
TO FIRST ACHIEVE THE STEADY-STATE FORCE? (1-29)

(14) IF YOU WOULD LIKE TO SELECT A FORCE GROUP THEN ENTER YES ELSE NO.

(15) THERE ARE 20 FORCE GROUPS AVAILABLE FOR YOUR USE.
ENTER THE NUMERIC CODE (1-20) OF
THE GROUP YOU WISH TO USE.

(16) DO YOU WISH TO USE THE RETENTION RATES? (ENTER YES OR NO)

(17) RETENTION RATE GROUPS 1 THRU 20 ARE AVAILABLE FOR USE.
ENTER THE NUMERIC CODE OF THE GROUP YOU WISH TO USE.

(18) DO YOU INTEND TO USE THE SAME RETENTION RATES FOR
EVERY SIMULATION YEAR?
(ENTER YES OR NO)

(19) IF YOU WISH TO INPUT ACCESSIONS ENTER YES ELSE ENTER NO.

(20) ENTER ACCESSIONS FOR EACH OF THE (1-30) SIMULATION YEARS.
EX: 100, 300, 500 ETC.

(21) DO YOU WISH TO INPUT NEW RETENTION RATES FOR SIM YR (1-30)
Enter YES OR NO
(22) IF YOU WISH TO RUN AGAIN ENTER YES ELSE NO

(23) END OF PROGRAM.

3.2.2 Composition Rules. Following is a description of the AGER displays and explanation of the necessary inputs. The paragraph numbers correspond to those of the actual displays in section 3.2.1 and the symbols in the processing flow chart.

(1) Your seven digit AUTOVON Phone number is used as a title for your force groups and retention rates file which is stored on a computer diskpack, and is also used to tally your utilization.

(2) This message means that there has not been a file created using the AUTOVON phone number entered. If you want to create one enter 'YES'. If you do not want a permanent file enter 'NO'.

(3) If you want to change any of your data enter 'YES'. If you do not want to make changes to your data enter 'NO'.

(4) If you want to make changes to any of your force groups enter 'YES'. If you do not want to change your force group data enter 'NO'. All force groups are initially set equal to zero.

(5) You have twenty force groups available to you in your force file. Each force group contains 30 values, one for each year-group. Enter a number from 1 to 20 corresponding to the force group you want to use.

(6) This display shows what a particular force group looks like with the current force levels in each of the thirty year-groups. To change any of the force levels enter the year-group (1-30), followed by a comma, then the new force level, followed by a comma. You can change from one to all thirty this way. When you are finished entering your changes enter an asterisk. If you do not want to change any levels - maybe you just wanted to look at them - simply enter an asterisk only.

---

1 Entering an 'END' will terminate that run of AGER.

2 Suggest you make a chart to keep track of your force groups. See attachment 1 for an example.
(7) If you want to make changes to any of your retention rate groups, enter 'YES'. If you do not want to make changes enter 'NO'. All retention rates are initially set equal to 1.

(8) You have twenty retention rate groups available to you within your file. Each rate group contains 29 values, one for each year-group. Only 29 are necessary because no one is retained beyond the 30th year. Enter the numeric code 1 thru 20 of the group you wish to use.

(9) This display shows what your rate group looks like with the current retention rates for each of the twenty-nine year groups. To change any of the rates enter the year group (1-29), followed by a comma, then the new retention rate, followed by a comma. The retention rate itself must contain a decimal point. You can change from one to all twenty-nine this way. When you are finished entering your changes enter an asterisk. If you do not want to change any of the rates simply enter an asterisk only.

(10) Enter the number of years you want to age the force.

(11) Enter the number of year-groups you want to look at.

(12) If you want to reach a certain manning level for your force and stay at that manning level, enter the force level you want to achieve. If you do not want a steady force enter '0'; accessions and losses will then dictate your force level.

(13) Enter the year of ageing you want your steady force to begin in. For instance, if you want to build up to your steady force by the fifth year of ageing enter a '5'.

(14) If you want to use a force group enter 'YES'. If you would prefer to enter new force levels enter 'NO'.

(15) Same as (5).

(16) If you want to use a retention rate group enter 'YES'. If you prefer to enter new retention rates enter 'NO'.

(17) Same as (8).

1 Ibid.
2 Ibid.
(18) You have the option of using the same retention rates for every year of ageing or you can enter new rates for each year of ageing. If you want to use the same rates for every ageing year enter 'YES'. If you do not enter 'NO'.

(19) If you want to enter accessions to be used in the ageing enter 'YES'. If you do not want to use accessions enter 'NO'.

(20) Enter the accessions you want to use for each of the ageing years. For instance, if you are ageing a force for five years, enter five accession figures followed by an asterisk.
Example: 100, 200, 500, 400, 200, * (100 corresponds to ageing year 1, 200 to ageing year 2, etc.).

(21) If you want to input new retention rates for the next ageing year enter 'YES'. If you do not enter 'NO'.

(22) If you want to run AGER again enter 'YES'. If you do not want to run again enter 'NO'.

(23) This display indicates AGER is finished running.

---

1 Ibid.

8
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ATTACHMENT 1
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Enter OK for next page of report

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### 6 Year Force Structure

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<td>659</td>
<td>716</td>
<td>929</td>
</tr>
<tr>
<td>18</td>
<td>712</td>
<td>709</td>
<td>703</td>
<td>764</td>
<td>991</td>
<td>1048</td>
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<tr>
<td>17</td>
<td>735</td>
<td>728</td>
<td>792</td>
<td>1027</td>
<td>1086</td>
<td>955</td>
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<tr>
<td>16</td>
<td>747</td>
<td>813</td>
<td>1054</td>
<td>1115</td>
<td>980</td>
<td>894</td>
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<tr>
<td>LOSS</td>
<td>0</td>
<td>2932</td>
<td>2563</td>
<td>2240</td>
<td>1965</td>
<td>1727</td>
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<tr>
<td>STRN</td>
<td>22502</td>
<td>19570</td>
<td>17007</td>
<td>14767</td>
<td>12802</td>
<td>11075</td>
</tr>
</tbody>
</table>

If you wish to run again enter YES else NO
The flow chart on subsequent pages is provided as a "road map" for running AGER. The symbols used are explained below:

- A display requiring some manual input from the user.

- The computer program makes a decision here. Nothing is required from the user.

- Connector to some other page of this flow chart.
Want to Change Force Groups?

Which Force Group?

Display of Year-Group Values

Input changes

YES, NO or END

END

YES

NO

A

B

H
C

How Many Years to Age the Force?
Input Number 1-29

How Many Year-Groups to Display?
Input Number 1-30

Want a Steady-State Force?
Input 0 or Force Level
Not 0

How Many Years to Get Steady State?
Input Number 1-29

D

A3-5
User YES/NO Response Here is Stored for Later Use

Use same Rates Each Simulation Year?

YES, NO or END

YES

NO

Going for Steady State?

NO

YES

Want to Input Accessions?

NO

YES, NO or END

END → H

YES

Enter Accessions for Each Simulation Year

Input Values

F

A3-7
Summary of Input
Enter OK to continue

Changing Retention Rates?

Want to input new data for simulation Year?
YES, NO or END

Enter Retention Rates
Input Rates

Finished Aiming?
YES, NO

Depends on Earlier User Response

F

G
ORKFILE: LISTING/OF/AGER (12/12/79) 8:51 AM WEDNESDAY

100  IS  SET  LIST  ERRLIST  000001
200  BEGIN  %  X  000002
300  **************  COMMENT  000003
400  ************************************  000004
500  **************************************************  000005
600  **************************************************  000006
700  PROGRAMMER:  AIC  JAMES  R.  STRATTON  000007
800  LOCATION:  AFMPC/MPCDDP7  000008
900  RDANDolph  AFB,  TX.  78148  000009
1000  SPECIAL  REMOTE  CONTROL  CHARACTERS  USED  IN  THIS  PROGRAM  ARE:  000010
1100  4"DCO0"  -  CLEAR  AND  HOME  000011
1200  4"3COO"  -  HOME  (DC6)  000012
1300  4"13"  -  MOVES  CURSOR  UP  ONE  LINE  (DC3)  000013
1400  4"11"  -  KEEPS  REMOTE  DEVICE  IN  RECEIVE  MODE  (DC1)  000014
1500  4"0D"  -  CARRIAGE  RETURN  000015
1600  4"25"  -  LINE  FEED  000016
1700  **************************************************  000017
1800  **************************************************  000018
1900  INTEGER  ARRAY  FORCEC0:31,0:313,  000019
2000  FORCEHOLD0:59)1  000020
2100  RE-AL  RHOLD;  000021
2200  TRUrHSET  FIRSTNUM("123456789"),  000022
2300  RESTNUM("0123456783");  000023
2400  OUTPUT(KIND=REMOTE,UNITS=CHARACTERS,MAXRECSIZE=1920);  000024
2500  FILE  FORCEORCUPS(KIND=DISAPACK,  000025
2600  PACKNAME="GUSDATA.",MAXRECSIZE=450,  000026
2700  BLOCKSIZE=400,AREAS=1,AREASIZE=1000,UNITS=WORDS);  000027
2800  FILE  UTIL(KIND=DISKFACK,FACKNAME="GUSDATA.",MAXRECSIZE=4,  000028
2900  BLOCKSIZE=400,AREAS=1,AREASIZE=1000,UNITS=WORDS);  000029
3000  TITLE="AGEDFORCE/DATA/UTILIZATION.",MYUSE=IO,  000030
3100  BLOCKSIZE-400,AREAS=1,AREASIZE=1000,UNITS=WORDS);  000031
3200  INTEGER  YRSTDATE, YRSDISP, YRSTSTEADY, SEXYFORCE, ACCSPRVR, TEMP,  000032
3300  11,12,13,14,15,16,17,18,19,  000033
3400  EBCDIC  ARRAY  REPTNAME[10],REPLY[5],TITLEARRAY[25],TITLEHOLD[25],  000034
3500  URAY[10];  000035
3600  BOOLEAN  STEADYSTATE,ACCESSIONSINPUT,CHRGRATES,DIRRUN,GOTITLE,GOTFILE;  000036
3700  LABEL;  000037
3800  INPUTDATA,INITIALIZATION,STEADYPROC,NOTYET,REENTNY,WINDUP;  000038
3900  FINISHED,OLDRATES,OLDLEVELS,OLDACCS,NEXTPAGE0,NEXTPAGE1,NEXTPAGE2,  000039
4000  AGEYEARS,DSPYEVERS,YRSTDATE,SEXYFORCE,ACCSPRVR,TEMP,NEXTPAGE,  000040
4100  ACCSESSINS,BIGPICTURE,NEXTPAGE3,RATECHRE,CHGCHECK,NEXTPAGE4,THEEND;  000041
4200  LABEL;  000042
4300  REPLYAGAIN1,TALLYFORCE,REPLYAGAIN2,REPLYAGAIN3,CHANGEATERS,  000043
4400  REPLYAGAIN4,REPLYAGAIN5,REPLYAGAIN6,EXT,INPUTLEVELS,INPUTRATES;  000044
4500  DEFINE;  000045
4600  TA = INTEGER(URAY[17],7)!,  000046
4700  TAT = INTEGER(URAY[7],7)1;  000047
4800  SPACE;  000048
4900  DIDRUN:=FALSE;  000049
5000  IF  MYSELF.TAS(VALUE  EOt.  000050
5100  THEN  BEGIN  000051
5200  WRITE(OUTPUT," THIS  PROGRAM  CAN  NOT  BE  RUN  FROM  THIS  DEVICE");  000052
5300  GO  TO  THEEND;  000053
5400  END;  000054
5500  DIDRUN:=TRUE;  000055
5600  WRITE(OUTPUT,"48"000017","48"0023","48"0025","48"0005",  000056
5700  48"0025","48"0025","X10",  000057

ATTACHMENT 4
**A4-2**

```
..."
```

```
5800  "AAA GGGG EEEEEE FFFFFF O0O0O0 RRRR CCCCCC", 000058
5900  " EEEEEE",48"0D25","X9","AA AA GG GO EE FF GG", 000059
6000  " GO RR RR CC CC EE",48"0D25",X8,"AA AA GO"X7", 000060
6100  " EEEEEE FF FF GO RR RR CC CC EEE",48"0D25", 000061
6200  X8,"AAAAAA GO GGGG EE FF GO RR RR CC", 000062
6300  "X7","EE",48"0D25","X8","AA AA GO GGGG EE FF GO", 000063
6400  " GO RR RR CC CC EE",48"0D25",X8,"AA AA GGGG", 000064
6500  " EEEEEE FF O0O0O0 RR RR CCCCCC EEEEEE", 000065
6600  48"0D25",48"0D25","MODIFICATIONS AS OF: DEC 79">
   000066
6700  _WHEN(6): 000067
6800  INPUTDATA: 000068
6900  GOTOFILE:=TRUE; 000069
7000  TIM:=TIME(2); 000070
7100  ACCESSINPUT:=FALSE; 000071
7200  YRSTOSREADY:=0; 000072
7300  FOR I:=0 STEP 1 UNTIL 31 000073
7400  DO FOR 12:=0 STEP 1 UNTIL 31 DO FORCE(11,12) := 0; 000074
7500  FOR I:=0 STEP 1 UNTIL 28 DO RETRATES(I1) := 1.0; 000075
7600  WRITEOUTPUT, "(48"OC0001")">; 000076
7700  WRITEOUTPUT, "AGGREGATE MODEL TO AGE SELECTED ELEMENTS OF THE FORCE" 000077
7800  48"0D25","ENTER YOUR 7-DIGIT AUTONUM NUMBER (I.E. 4872233), "48"0D25", 000078
8000  " THIS DATA IS ESSENTIAL FOR FILE MAINTENANCE AND WAY I USED TO", 000079
8100  48"0D25","VERIFY UTILIZATION.",48"0D25","IF YOU DESIRE TO START", 000080
8200  " OVER AGAIN WHILE YOU ARE WORKING IN AGEFORCE",48"0D25", 000081
8300  " JUST ENTER AN "END" RESPONSE WHEN A "YES" OR "NO" RESPONSE IS", 000082
8400  " REQUESTED",48"0D25","BE SURE TO TYPE IT", IF YOU ENTER "END", 000083
8500  " ANY OTHER TIME",48"0D25","THE PROGRAM MAY TERMINATE ABNORMALLY.", 000084
8600  48"3C00013"); 000085
8700  READ(INPUT),(TIMELIMIT G001),(A12),REPTNAME(0)); 000086
8900  "A TIMELIMIT STAYS IN EFFECT FOR ENTIRE PROGRAM" 000087
9000  IF NOT REPTNAME(0) IN FIRSTNUM THEN GO TO INPUTDATA; 000088
9100  FOR I:=1 STEP 1 UNTIL 6 DO 000089
9200  IF NOT REPTNAME(1) IN RESTNUM THEN GO TO INPUTDATA; 000090
9300  REPLACE TITLEARRAY(0) BY "FOR-28"; 000091
9400  REPLACE TITLEARRAY(0) BY "AGEDFORCE/DATA/A"; 000092
9500  FOR I:=0 STEP 1 UNTIL 10 DO 000093
9600  IF REPTNAME(1)="" THEN 000094
9700  REPLACE REPTNAME(11) BY " "; 000095
9700  REPLACE TITLEARRAY(10) BY REPTNAME(0) FOR 11; 000096
9900  REPLACE FORCEGROUPS TITLE BY TITLEARRAY(0); 000097
9900  IF NOT FORCEGROUPS.RESIDENT 000098
10000 THEN BEGIN 000099
10100 WRITEOUTPUT, <48"00000">,"YOU DO NOT HAVE A SAVE FILE FOR FORCE ", 000100
10200 "AND RATE DATA.",48"0D25","DO YOU WANT TO CREATE A PERMANENT ", 000101
10300 "FILE? (ENTER YES OR NO).",48"3C00019"); 000102
10400 READ(INPUT,/A3A->REPLY(0)); 000103
10500 IF REPLY(0) EQL "END" THEN GO FINISHED; 000104
10600 IF REPLY(0) EQL "NO" 000105
10700 THEN BEGIN 000106
10800 GOTOFILE:=FALSE; 000107
10900 FOR I:=0 STEP 1 UNTIL 99 DO 000108
11000 BEGIN 000109
11100 READ(UTIL(11),4,URAY(0)); 000110
11200 IF URAY(0)="REPTNAME(0)" FOR 7 000111
11300 THEN BEGIN 000112
11400 REC:=11; 000113
11500 GO TO AGEYEARS; 000114
11600 END; 000115
11700 END; 000117
```
11800 FOR 11:=0 STEP 1 UNTIL 99 DO
11900 BEGIN
12000 READ(UTIL[11],4,URAY[0]);
12100 IF URAY[0] = "0" THEN
12200 BEGIN
12300 REPLACE URAY[0] BY REPLNAME[0] FOR 7;
12400 REC:=11;
12500 REPLACE URAY[7] BY "0" FOR 17;
12600 WRITE(UTIL[11],4,URAY[0]);
12700 11:=100;
12800 "LOCK(UTIL);
12900 END;
13000 END;
13100 GO TO AGEYEARS;
13200 ELSE BEGIN
13300 FOR EGROUPS.MYUSE := 2;
13400 FOR 11:=0 STEP 1 UNTIL 19 DO
13500 WRITE(FOREGROUPS[11],<30G6>,FOR "T":# "O" STEP "I"
13600 UNTIL 29 DO (T:=0));
13700 WRITE(FOREGROUPS[11],<30G6>,FOR 12 :=0 STEP 1
13800 UNTIL 29 DO (T:=0));
13900 LOCK(FOREGROUPS);
14000 FORCEGROUPS.MYUSE := 3;
14100 FOR 11:=0 STEP 1 UNTIL 99 DO
14200 BEGIN
14300 READ(UTIL[11],4,URAY[0]);
14400 IF URAY[0] = "0" THEN
14500 REPLACE URAY[0] BY REPLNAME[0] FOR 7;
14600 REC:=11;
14700 REPLACE URAY[7] BY "0" FOR 17;
14800 WRITE(UTIL[11],4,URAY[0]);
14900 11:=100;
15000 "LOCK(UTIL);
15100 END;
15200 END;
15300 END;
15400 ELSE BEGIN
15500 FOR 11:=0 STEP 1 UNTIL 99 DO
15600 BEGIN
15700 READ(UTIL[11],4,URAY[0]);
15800 IF URAY[0] = "0" THEN
15900 REPLACE URAY[0] BY REPLNAME[0] FOR 7;
16000 REC:=11;
16100 REPLACE URAY[7] BY "0" FOR 17;
16200 WRITE(UTIL[11],4,URAY[0]);
16300 END;
16400 END;
16500 GO TO EXT;
16600 END;
16700 END;
16800 EXT:
16900 WRITE(OUTPUT,<48"OC00","DO YOU WISH TO MAKE CHANGES TO \"","YOUR DATA\? (ENTER YES OR NO)",
17000 48"3C0013">);
17100 READ(INPUT,<48",REPLY[O]>
17200 IF REPLY[0] EQL "END" THEN GO FINISHED;
17300 IF REPLY[0] EQL "NO" THEN GO TO AGEYEARS;
17400 IF REPLY[0] EQL "YES" THEN GO TO AGEYEARS;
17500 END;
17600 ELSE:
17700 REPLYAGAIN2:
17800 WRITE(OUTPUT,<48"OCOO"", "DO YOU WISH TO CHANGE ANY OF THE FORCE ", 00017
17900 READ(INPUT,<48"OCOO"", "GROUPS (ENTER YES OR NO)", 48"3C0013">)); 00018
18000 IF REPLY(0) EQL "END" THEN GO FINISHED; 00018
18100 IF REPLY(0) EQN "YES" AND REPLY(0) NEQ "NO" 00018
18200 THEN GO TO REPLYAGAIN2; 00018
18300 IF REPLY(0) EQL "NO" 00018
18400 THEN GO TO CHANGEGROUPS; 00018
18500 REPLYAGAIN3: 00018
18600 WRITE(OUTPUT,<48"OCOO"", "THERE ARE 20 FORCE GROUPS AVAILABLE FOR YOUR USE. ", 48"3C0013">); 00018
18700 READ(INPUT,/,FOR 12:=0 STEP 1 UNTIL 29 DO FORCEHOLD(12)); 00019
18800 WRITE(OUTPUT,<48"OCOO"", "THE CONFIGURATION OF GROUP ", 00019
18900 "1-THRU 20 ARE AVAILABLE.", 48"3C0013">); 00019
19000 FOR 12:=0 STEP 2 UNTIL 58 DO
19100 CHANGFRATES; 00019
19200 WR 17800TE(OUTPUT,<48"OCOO"", "DO YOU WISH TO CHANGE ANY OF THE FORCE ", 00020
19300 READ INPUT,<48"OCOO"", "GROUPS (ENTER YES OR NO)", 48"3C0013">)); 00021
19400 IF REPLY(0) NEQ "NO" THEN WRITE(OUTPUT,<48"OCOO"", "YOU WISH TO CHANGE THE FORCE LEVELS, INPUT WITH AN ", 00022
19500 "ASTCRIS. ", 48"3C0013">); 00022
19600 READ(INPUT,/,FOR 12:=0 STEP 1 UNTIL 59 DO FORCEHOLD(12)); 00022
19700 FOR 12:=0 STEP 1 UNTIL 29 DO FORCE(12,01); 00022
19800 LOCK(FC GROUPS); 00022
19900 CHANGFRATES; 00022
20000 WRITE(OUTPUT,<48"OCOO"", "DO YOU WISH TO CHANGE THE RETENTION ", 00023
20100 READ INPUT,<48"OCOO"", "GROUPS 1-THRU 20 ARE AVAILABLE.", 48"3C0013">); 00023
20200 IF REPLY(0) NEQ "YES" THEN WRITE(OUTPUT,<48"OCOO"", "ENTER THE NUMERIC CODE OF THE GROUP YOU WISH TO CHANGE.", 00023
20300 "GROUPS 1-THRU 20 ARE AVAILABLE.", 48"3C0013">); 00023
20400 READ(INPUT,/, FOR 12:=0 STEP 1 UNTIL 59 DO FORCEHOLD(12)); 00023
20500 GO TO REPLYAGAIN2; 00023
20600 WRITE(OUTPUT,<48"OCOO"", "RETENTION RATE ", 00024
20700 READ INPUT,<48"OCOO"", "GROUPS 1-THRU 20 ARE AVAILABLE.", 48"3C0013">); 00024
20800 "ENTER THE NUMERIC CODE OF THE GROUP YOU WISH TO CHANGE.", 00024
20900 "GROUPS 1-THRU 20 ARE AVAILABLE.", 48"3C0013">); 00024
21000 READ(INPUT,/, FOR 12:=0 STEP 1 UNTIL 59 DO FORCEHOLD(12)); 00024
21100 GO TO REPLYAGAIN2; 00024
READ(FORCEGROUPS[[9]+11],[29F6.4]), FOR [2]:0 STEP 1 UNTIL 20
23900 DO RETRATES[(12)]; 000239
24000 WRITE(OUTPUT,[48"0000"],"THE CURRENT RATES ARE;",48"0025","X2","YRS.",000240
24100 48"0025","X1","Y2","X2","X1,F5.3),48"0025","11","20","X2",000241
24200 10(F1,F5.3),48"0025","21","26","X2,9(F1,F5.3),48"0025",000242
24300 "TO CHANGE RATES, INPUT YEARGROUP RATE, YEARGROUP RATE, ETC.;",48"0025",000243
24400 "(EX: 2,463,15,376,271,"",48"0025","TERMINATE INPUT WITH AN",000244
24500 "ASTERISK."",48"0025"","YOU CAN ENTER ANY OR ALL RATES",000245
24600 "THAT WAY.",48"3C0013"), FOR [2]:0 STEP 1 UNTIL 20 DO RETRATES[(12)];000246
24700 READ(INPUT,/,FOR [2]:0 STEP 1 UNTIL 57 DO RETENHOLD[(12)];000247
24800 FOR [2]:0 STEP 2 UNTIL 59 DO 000248
24900 IF (RHOLD := RETENHOLD[(12)] GTR 0 AND RHOLD LEQ 30 AND (RHOLD000249
25000 MOD 11 FOI 0 000250
25100 THEN RETRATESRHOLD := RETENHOLD[(12)+1];000251
25200 000252
25300 000253
25400 WRITE(FORCEGROUPS[[10]+11],[29F6.4]), FOR [2]:0 STEP 1 UNTIL 23
25500 DO RETRATES[(12)]; 000254
25600 FOR [2]:0 STEP 1 UNTIL 28 DO RETRATES[(12)+1]:T:0;000255
25700 FOR [2]:0 STEP 1 UNTIL 9/5 DO RETENHOLD[(12) := 0;000256
25800 LOCK(FORCEGROUPS);000257
25900 OD TO CHANGEHAND;000258
26000 AOEYARS:
26100 WRITE(OUTPUT,[48"0000"],"HOW MANY YEARS DO YOU WISH TO AGE THE FORCE", 000259
26200 ", "1-29 " ,48"3C0013"));000260
26300 RET(000261
26400 INPUT/-YRST0AGE());000262
26500 IF (YOU DO NOT 1 OR YRST0AGE GTR 29
26600 THEN DO TO AOEYARS;000263
26700 000264
26800 "DISPLAYYARS:
26900 WRITE(OUTPUT,[48"0000"],"HOW MANY YEAR GROUPS DO YOU WISH TO DISPLAY", 000265
27000 ", "1-30 ",48"3C0013"));000266
27100 READ(INPUT,/,YRP0S15);000267
27200 IF YRPO3015<1 OR YRPO3015>90 GTR 300000268
27300 THEN GO TO DISPLAYYARS;000269
27400 WRITE(OUTPUT,[48"0000"],"IF YOU WANT TO ACHIEVE AND MAINTAIN A ", 000270
27500 "STEADY-STATE FORCE", 48"0029","THEN ENTER THE FORCE LEVEL", 000271
27600 "YOU WANT TO ACHIEVE;",48"0025","OTHERWISE ENTER 0000253;");000272
27700 "48"3C0013"));000273
27800 READ(INPUT,/,STEADYFORCE());000274
27900 IF STEADYFORCE NEQ 0000275
28000 THEN STEADYSTATE := TRUE0000276
28100 ELSE STEADYSTATE := FALSE;0000277
28200 IF STEADYSTATE0000278
28300 THEN BEGIN % BB0000279
28400 STEADYYEAR:0000280
28500 WRITE(OUTPUT,[48"0000"],"HOW MANY YEARS DO YOU WANT TO TAKE ", 0000281
28600 48"0029","TO FIRST ACHIEVE THE STEADY-STATE FORCE? (1-29)", 0000282
28700 "48"3C0013"));0000283
28800 READ(INPUT,/,YRST0STEADY());0000284
28900 IF YRST0STEADY < 1 OR YRST0STEADY GTR 290000285
29000 THEN GO TO STEADYYEAR;0000286
29100 END; % BB0000287
29200 0000288
29300 REPLYAGAIN();0000289
29400 IF NOT OUTFIILE THEN GO TO INPUTLEVELS;0000290
29500 WRITE(OUTPUT,[48"0000"],"IF YOU WOULD LIKE TO SELECT A FORCE OR "0000291
29600 "WENT THEN ENTER YES NO ELSE NO",48"3C0013"));0000292
29700 READ(INPUT,43",REPLY01);0000293

A4-5
IF REPLY(0) EQ "END" THEN GO FINISHED;
29900 IF REPLY(0) NEQ "YES" AND REPLY(0) NEQ "NO"
30000 THEN GO TO REPLYAGAIN;
30100 IF REPLY(0) EQ "YES"
30200 THEN BEGIN
30300 WRITE(OUTPUT,<48"OCO","THERE ARE 20 FORCE GROUPS AVAILABLE FOR YOUR USE.",48"0D25","ENTER THE NUMERIC CODE"),(31400,32000)
30400 IF 11 LSS 1 OR 11 GTR 20
30500 THEN GO TO REPLYAGAIN;
30600 IF REPLY(0) EQ "YES"
30700 THEN GO TO TALLYFORCE;
30800 IF NOT GOTFILE THEN GO TO INPUTRATES;
30900 WRITE(OUTPUT,<48"OCO","DO YOU WISH TO USE THE RETENTION RATES?",48"0D25","ENTER YES OR NO",48"3C0013">);
31000 IF REPLY(0) EQ "YES" THEN GO FINISHED;
31100 IF REPLY(0) NEQ "NO"
31200 THEN GO TO REPLYAGAIN;
31300 IF REPLY(0) EQ "YES"
31400 THEN
31500 WRITE(OUTPUT,<48"OCO","RETENTION RATE GROUPS THRU 20 ARE AVAILABLE FOR USE.",48"0D25","ENTER THE NUMERIC CODE"),(32600,33200)
31600 IF 11 LSS 1 OR 11 GTR 20
31700 THEN GO TO REPLYAGAIN;
31800 IF REPLY(0) EQ "YES" AND REPLY(0) NEQ "NO"
31900 THEN GO TO REPLYAGAIN;
32000 IF REPLY(0) EQ "YES"
32100 THEN BEGIN
32200 WRITE(OUTPUT,<48"OCO","ENTER 30 YEAR GROUP FORCE LEVELS,ASTERISK"," WILL TERMINATE INPUT",48"3C0013">);
32300 READ(INPUT,/,11);
32400 IF 11 LSS 1 OR 11 GTR 20
32500 THEN GO TO REPLYAGAIN;
32600 IF REPLY(0) EQ "YES"
32700 THEN GO TO TALLYFORCE;
32800 FOR 11:=0 STEP 1 UNTIL 29 DO FORCE[11,0];
32900 END;
33000 IF REPLY(0) EQ "YES"
33100 THEN BEGIN
33200 WRITE(OUTPUT,<48"OCO","ENTER RETENTION RATES,
AN ASTERISK WILL TERMINATE INPUT.",48"0D25","ENTER WITH DECIMAL POINT,
AMPLE EXAMPLE4; 20:0.1, 4567; 994",48"3C0013">);
33300 READ(INPUT,/,FOR 11:=0 STEP 1 UNTIL 28 DO RETRATS[12]);
33400 WRITE(OUTPUT,48"0D25","ENTER 29 RETENTION RATES, AN ASTERISK WILL ",48"3C0013">);
33500 READ(INPUT,/,FOR 11:=0 STEP 1 UNTIL 28 DO RETRATS[11]);
33600 IF 11 LSS 1 OR 11 GTR 20
33700 THEN GO TO REPLYAGAIN;
33800 IF REPLY(0) EQ "YES" AND REPLY(0) NEQ "NO"
33900 THEN GO TO REPLYAGAIN;
34000 IF REPLY(0) EQ "YES"
34100 THEN BEGIN
34200 WRITE(OUTPUT,<48"OCO","DO YOU INTEND TO USE THE SAME RETENTION RATES"," FOR EVERY SIMULATION YEAR ?",48"0D25","ENTER YES OR NO",48"3C0013">);
34300 READ(INPUT,<48"OCO","DO YOU INTEND TO USE THE SAME RETENTION RATES"," FOR EVERY SIMULATION YEAR ?",48"0D25","ENTER YES OR NO",48"3C0013">);
34400 READ(INPUT,/,FOR 11:=0 STEP 1 UNTIL 29 DO RETRATS[12]=1.0);
34500 WRITE(OUTPUT,<48"OCO","ENTER 29 RETENTION RATES, AN ASTERISK WILL ",48"0D25","ENTER WITH DECIMAL POINT.",48"3C0013">);
34600 IF 11 LSS 1 OR 11 GTR 20
34700 THEN GO TO REPLYAGAIN;
34800 IF REPLY(0) EQ "YES" AND REPLY(0) NEQ "NO"
34900 THEN GO TO REPLYAGAIN;
35000 IF REPLY(0) EQ "END" THEN GO FINISHED;
IF REPL{-0) EQ "YES" AND REPL{-0) EQ "NO"
THEN GO TO RATECHGREQ;
IF REPL{-0) E0L "NO"
THEN CHORATES := TRUE;
ELSE CHORATES := FALSE;
IF STEADYSTATE
THEN GO TO STEADYPROC;
ACCESSIONSIN:
WRITE(OUTPUT,<"\#00000","IF YOU WISH TO INPUT ACCESSIONS ENTER YES.",
ELSE ENTER NO", "000013")>
READ(OUTPUT,<A3>,REPLY(01));
IF REPL{-0) E0L "END" THEN GO FINISHED;
IF REPL{-0) E0L "YES"
THEN BEGIN
ACCESSIONS IN := TRUE;
WRITE(OUTPUT,<"\#00000","ENTER ACCESSIONS FOR EACH OF THE ",12,
" SIMULATION YEARS", ",48"0025", "EX: 100,300,500 ETC.",
48"0013", "YRSTORAGE");
READINPUT,/,FOR 11:1 STEP 1 UNTIL YRSTORAGE DO FORCE(0,1111);
END
ELSE IF REPL{-0) EQ "NO"
THEN GO TO ACCESSIONSIN;
IF STEADYSTATE THEN "YES"
ELSE "NO",STEADY-PROC;
WRITE(OUTPUT,<"\#000","STORAGE FOR ";
FOR I:1 STEP 1 UNTIL 29 TOG
DO BEGIN
X := FORCE(1,12); WRCt1- I-i1-tt--RT-?S~t-----p~
FORCE(3,11); FORCE(12,11); FORCE(11,11)
END;
FOR I:1 STEP 1 UNTIL 29 DO FORCE(0,1111));
WRITE(OUTPUT,<"\#000","STORAGE FOR ";
RETRY:
WRITE(OUTPUT,<"\#00000",70(""""",48"0025",X33,"SUMMARY OF INPUT",
48"0025",X3,"NAME OF REPORT": ",12,48"0025",X3,
"YRS":X4,"RETENTION RATES":X3,1-10",X2,
10(16,1X),48"0025",X3,11-20",X1,10(16,1X),48"0025",X3,21-30",X1,10(16,1X),48"0025",X3,31-40",X2,
10(16,1X),48"0025",X3,41-50",X2,10(16,1X),48"0025",X3,51-60",X2,10(16,1X),48"0025",X3,
48"0025",X3,70-79",X2,10(16,1X),48"0025",X3,80-89",X2,10(16,1X),48"0025",X3,90-99",X2,
10(16,1X),48"0025",X3,100-119",X2,10(16,1X),48"0025",X3,120-149",X2,10(16,1X),48"0025",X3,
150-179",X2,10(16,1X),48"0025",X3,180-209",X2,10(16,1X),48"0025",X3,210-239",X2,10(16,1X),48"0025",X3,
240-269",X2,10(16,1X),48"0025",X3,270-299",X2,10(16,1X),48"0025",X3,300-329",X2,10(16,1X),48"0025",X3,
330-359",X2,10(16,1X),48"0025",X3,360-389",X2,10(16,1X),48"0025",X3,390-419",X2,10(16,1X),48"0025",X3,
420-449",X2,10(16,1X),48"0025",X3,450-479",X2,10(16,1X),48"0025",X3,480-509",X2,10(16,1X),48"0025",X3,
510-539",X2,10(16,1X),48"0025",X3,540-569",X2,10(16,1X),48"0025",X3,570-599",X2,10(16,1X),48"0025",X3,
600-629",X2,10(16,1X),48"0025",X3,630-659",X2,10(16,1X),48"0025",X3,660-689",X2,10(16,1X),48"0025",X3,
690-719",X2,10(16,1X),48"0025",X3,720-749",X2,10(16,1X),48"0025",X3,750-779",X2,10(16,1X),48"0025",X3,
780-809",X2,10(16,1X),48"0025",X3,810-839",X2,10(16,1X),48"0025",X3,840-869",X2,10(16,1X),48"0025",X3,
870-899",X2,10(16,1X),48"0025",X3,900-929",X2,10(16,1X),48"0025",X3,930-959",X2,10(16,1X),48"0025",X3,
960-989",X2,10(16,1X),48"0025",X3,990-999",X2,FORCE(0,1111),FORCE(1,1111)
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END:
41900  END; % OF 12 LOOP
42000  IF STEADYSTATE AND II GTR YRSTOSTEADY
42100  THEN BEGIN % FF
42200  TEMP := FORCE[31,11] - STEADYFORCE;
42300  IF TEMP LSS 0
42400  THEN BEGIN % GG
42500  FORCE[0,11] := FORCE[0,11] - TEMP;
42600  FORCE[31,11] := STEADYFORCE;
42700  END; % GG
42800  IF TEMP GTR 0
42900  THEN BEGIN % HH
43000  IF [13:FORCED[0,11] - TEMP GEQ 0
43100  THEN BEGIN % II
43200  FORCE[31,11] := STEADYFORCE;
43300  FORCE[0,11] := FORCE[0,11] - TEMP;
43400  END % II
43600  ELSE BEGIN % JJ
43700  FORCE[0,11] := FORCE[0,11] - FORCE[31,11];
43900  END; % JJ
44000  END; % HH
44100  "IF II NEG YRSTOSAGE AND CHORATES
44200  THEN BEGIN
44300  CHOCCHECK:
44400  WRITEOUTPUT,<48",000","DO YOU WISH TO INPUT NEW RETENTION ",
44500  "RATES FOR SIM YR ", [12,48","OD25","ENTER YES OR NO",
44600  "FOR_13=11,0003",1111]>;
44700  RFIND<INPUT,<A3>,REPLY[01]>
44800  IF REPLY[01] EQL "END" THEN GO FINISHED;
44900  IF REPLY[01] NEQ "YES" AND REPLY[01] NEQ "NO"
45000  THEN GO TO CHOCCHECK;
45100  IF REPLY[01] EQL "YES"
45200  THEN BEGIN
45300  FOR ID := 0 STEP 1 UNTIL 28 DO RETRATES[15] := 0;
45400  WRITEOUTPUT,<48",000","ENTER 29 RETENTION RATES",
45500  ""ASTERISK WILL TERMINATE INPUT ",48","OD25",
45600  "ENTER WITH DECIMAL POINT.
45700  "EXAMPLE: .123,1.0,.456",
45800  ".7,994",48","3COO13">;
45900  READ<INPUT,/,FOR 15:=0 STEP 1 UNTIL 28 DO RETRATES(151)
46000  WRITEOUTPUT,<48",000","FOR_13=11,0003",X4, "YRS",X17;
46100  "RETENTION RATES FOR SIM YR ", 12,
46200  48","OD25",X3,"1-10",X2,10(F5.3,X1),
46300  "48","OD25",X2,"11-20",X2,10(F5.3,X1),
46400  "48","OD25",X2,"21-29",X2,10(F5.3,X1),
46500  "48","OD25",X2,"30-39",X2,10(F5.3,X1),
46600  "48","OD25",X2,"40-49",X2,10(F5.3,X1),
46700  "48","OD25",X2,"50-59",X2,10(F5.3,X1),
46800  "48","OD25",X2,"60-69",X2,10(F5.3,X1),
46900  "48","OD25",X2,"70-79",X2,10(F5.3,X1),
47000  "48","OD25",X2,"80-89",X2,10(F5.3,X1),
47100  "48","OD25",X2,"90-99",X2,10(F5.3,X1),
47200  FOR 15:=0 STEP 1 UNTIL 28 DO RETRATES(151)
47300  NEXTPAGE4:
47400  WRITEOUTPUT,<"ENTER OK WHEN READY TO CONTINUE",
47500  READ<INPUT,<A2>,REPLY[01]>
47600  IF REPLY[01] NEQ "OK"
47700  THEN GO TO NEXTPAGE4;
47800  END;
47900  END; % DD
48000  GO WINDUP;
48100  STEADYPROC:
FOR 13:=1 STEP 1 UNTIL 30 DO

TEMP := (STEADYFORCE - FORCE(0, 13)) / YRSTOSTEADY;

IF TEMP LSS 0 THEN TEMP := 0;

FOR 13:=1 STEP 1 UNTIL YRSTOSTEADY DO

BEGIN % KK

FOR 14:=1 STEP 1 UNTIL 29 DO

BEGIN % LL

FORCE(14, 13) := FORCE(14-1, 13-1) * RETRATE(14-1);

FORCE(31, 13) := FORCE(31-1, 13-1) + FORCE(14, 13);

END; % LL

END; % KK

IF FORCE(31, 13) LSS YRSTOSTEADY THEN GO TO STEADYFORCE;

ELSE BEGIN

FOR 13:=1 STEP 1 UNTIL YRSTOSTEADY DO

BEGIN

TEMP := (STEADYFORCE - FORCE(31, 13)) / YRSTOSTEADY;

IF TEMP LSS 0 THEN TEMP := 0;

END

END;

FOR 10:=0 STEP 1 UNTIL 31 DO

FORCE(10, 13) := 0;

IF 11 EOL 99 THEN GO TO ENTRY;

END;

51700 GO NOTYE;

51800 WRITE(OUTPUT, "ENTER OK FOR NEXT PAGE OF REPORT", "48*3C0013")

51900 READ(INPUT, "<A2", REPLY01);

52000 IF REPLY01 NEQ "OK" THEN GO TO NEXTPAGE;

52100 WRITE(OUTPUT, "<48*0CC00", "X19, A12, X5, 12, " YEAR FORCE STRUCTURE", "48*11")
IF REPLY $= "NO"$ THEN BEGIN 

WRITE(OUTPUT,<"0CO11"));

GO TO FINISHED;

END;

THE END;

END.

65800 IF REPLY $= "NO"$ THEN BEGIN OUTPUT <-"0CO0011"$);;

THE END;

END.

END.