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SPACE STATION MISSION PROCESSING REQUIREMENTS

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A FINAL REPORT ENTITLED

"A SLAM II SIMULATION MODEL FOR ANALYZING  
SPACE STATION MISSION PROCESSING REQUIREMENTS"

BY

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A SLAM II SIMULATION MODEL FOR ANALYZING  
SPACE STATION MISSION PROCESSING REQUIREMENTS

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ABSTRACT

Space station mission processing is modeled via the SLAM II simulation language on an IBM 4381 mainframe and an IBM PC microcomputer with 620K RAM, two double-sided disk drives and an 8087 coprocessor chip. Using a time phased mission (payload) schedule and parameters associated with the mission, orbiter (space shuttle) and ground facility databases, estimates for ground facility utilization are computed. Simulation output associated with the science and applications database is used to assess alternative mission schedules.

INTRODUCTION

In order to schedule the large number of missions planned for the next several decades, NASA personnel are interested in optimizing the utilization of ground-based equipment necessary for pre- and post-flight processing. Within the processing facility, several teststands will be available for processing material to be launched to the space station (SS) or returned from the SS (referred to as downflow) via the orbiter (space shuttle). Each teststand can hold the equivalent

area and volume associated with one cargo bay in the orbiter and it will be assumed that the processing of material on a teststand requires three months (one quarter). Thus, if only two teststands were available, a total of eight teststand-quarters (TQs) worth of payloads could be processed during one year. The problem statement is: given the number of available teststands with specified usage restrictions (more on this later) and the list of proposed missions, how should the teststands be scheduled to complete the mission requirements most efficiently.

The interpretation of the term "mission" is important in the following discussions. A mission refers to all the launch and downflow operations, perhaps over a period of years, associated with a particular set of objectives. For example, a mission might require two launches during the first quarter of 1990, one downflow operation in the second quarter of 1991 and both a launch and a downflow once per year during 1992-2000. The term payload transport (PYLDXPRT) will be used to refer to any cargo for a mission which is scheduled for a single launch or downflow operation. With the SLAM attribute numbers in parentheses, each PYLDXPRT has the following set of attributes (the notation A1 is used instead of ATRIB(1), A2 instead of ATRIB(2), etc.):

- a. the mission number(A1);
- b. the year of launch or downflow(A2);
- c. a cargo bay equivalency(CBE) index- this number represents the percent of a single teststand utilized by the PYLDXPRT (A4,  $0 < A4 < 1$ );
- d. a random number for altering the order in which PYLDXPRTs are considered during successive runs of the model for a given year (A5,  $0 < A5 < 1$ );
- e. the TQ index number set by the model for a PYLDXPRT during a particular run in a given year(A6,  $A6=1, 2, \dots, 4 * (\text{number of available teststands}) + 1$ ); the extra '1' is for overflow which is discussed below;
- f. a downflow-launch indicator(A7=0 for downflow, A7=1 for launch);

g. a nonhazardous-hazardous material indicator(A8=0 for nonhazardous, A8=1 for hazardous);

h. a low-polar orbit indicator(A9=0 for low orbit, A9=1 for polar orbit).

If there are no restrictions, each teststand can hold any number of PYLDXPRTs during any one quarter, as long as the sum of the CBE values is no greater than one. However, it may be necessary to segregate PYLDXPRTs; e.g., only allow PYLDXPRTs with A7=1,A9=1 or A7=1,A9=0 or A7=0,A9=1 or A7=0,A9=1 on a single teststand during any quarter(the or is exclusive here). This latter example illustrates what is meant by segregating on A7,A9. There are a total of eight different rules or restrictions, any one of which may be in effect during the period of time of interest. The eight possible rules are:

- rule 1- segregate on A7,A8,A9
- rule 2- segregate on A8,A9
- rule 3- segregate on A7, A9
- rule 4- segregate on A7,A8
- rule 5- segregate on A9 only
- rule 6- segregate on A8 only
- rule 7- segregate on A7 only
- rule 8- no segregation in effect.

For a given ordering of PYLDXPRTs (entities in the SLAM model), a user-specified rule number and a given number of teststands, the teststand utilization (TSU) SLAM model determines an efficient allocation of PYLDXPRTs among teststands.

#### THE TSU SLAM MODEL

The TSU SLAM model, a combination of SLAM(network) and Fortran(discrete) code, is used to estimate the most efficient utilization of TQs for the PYLDXPRTs under consideration when seven teststands are available. The network portion of the TSU model is shown in Fig. 1 below. The SLAM II statements for Figure 1, including the mission data, are shown in App. A.

Each entity in the model(with attributes A1-A9 defined earlier and A10 defined



2 FOLDCUT FILE

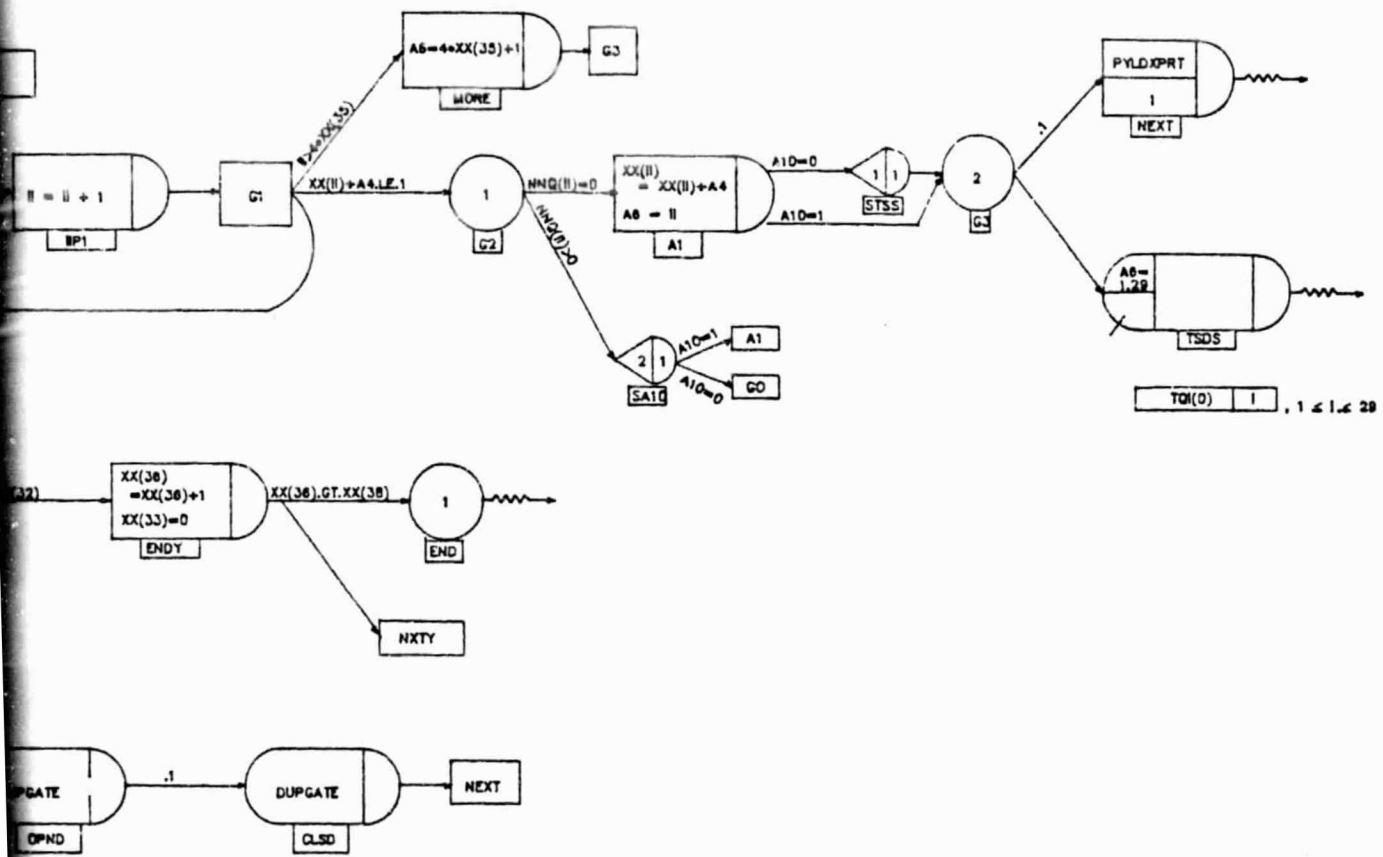


Figure 1 Network portion of the Teststand Utilization SLAM model

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below) represents one PYLDXPRT. Definitions of all important variables and files are:

II= index number associated with a TQ

XX(II)=total amount of CBEs currently assigned to TQ II,  $1 \leq II \leq 28$

XX(31)=I, which is the rule number I,  $1 \leq I \leq 8$ , currently in effect and set by the user in INTLC (a SLAM initialization statement)

XX(32)=total number of runs desired with an XX(31) setting (set in INTLC and restricted to  $1 \leq XX(32) \leq 20$  in the current model)

XX(33)=total number of runs completed now (initialized to zero in INTLC)

XX(34) is not used

XX(35)=total number of teststands being modeled (set to 7, its maximum allowed value for the current model version, in INTLC)

XX(36)=current year being processed (set to XX(37) in INTLC)

XX(37)=first year in a sequence to be processed (set in INTLC)

XX(38)=last year in a sequence to be processed (set in INTLC)

File II: holds all entities associated with TQ number II,  $1 \leq II \leq 28$

File 29: the overflow file when  $XX(35)=7$ ; holds all entities which require more than 28 TQs

File 30: holds all entities for all years under consideration; one dummy entity with  $A1=0, A5=1000$  is included for each year to be processed and one for year  $XX(38)+1$  (a total of  $XX(38)-XX(37)+2$  dummy entities), and ENTRY statements are used to fill the file initially

File 31:holds all entities(including the dummy entity) for any one year's set of PYLDXPRTs at node PYLD;only one year's PYLDXPRTs is processed at a time

File 32:holds a duplicate set of all entities (including the dummy entity) for any one year's set of PYLDXPRTs for use in successive runs for a given year(see gate DUPG in Fig. 1)

SS(II)=1,2,...,8 or -1, depending upon the value of XX(31) and A7,A8,A9 (see description of subprogram SETSS below) for File II,1<=II<=28; the SS-array is set at node STSS according to the matrix in Fig. 2 below.

A10= 1,if the entity arriving at node SA10 satisfies the rule associated with the XX(31),SS(II) pair for filing into File II

A10= 0,if the entity arriving at node SA10 does not satisfy the rule already in effect at File II.

The relationships between XX(31), A7,A8,A9,A10 and SS(II) can be explained with an example using Fig. 2. If rule 1 was in effect(XX(31)=1) and the first entity entering the model had A7=A8=A9=0, then when II=1, SS(1) would be set to 1 (as Fig. 2 indicates) at node STSS, after which the entity would be filed into File 1 at node TSDS(see Fig. 1). From this moment on, only entities with A7=A8=A9=0 will be permitted into File 1, assuming of course there is room in terms of CBEs.

At nodes STSS,SA10 and PRNT, calls are made, respectively, to Fortran subroutines SETSS, SETA10 and PRTF. Fortran source code listings for these subprograms (as well as the main program and subroutine EVENT) are in App. B and a brief description of each of these subprograms follows:

SETSS:Prior to filing the initial entity into File II, SS(II) is set according to Fig. 2 using XX(31) and A7,A8,A9 for this first arrival into File II. Only entities meeting the XX(31),SS(II) requirements will be placed into File II from now on;

SETA10:If there is room(in terms of CBEs) for an entity in File II but the file is not empty, a check is made to determine if this entity's attributes satisfy the

SS(II)	RULE 1 A7 A8 A9	RULE 2 A7 A8 A9	RULE 3 A7 A8 A9	RULE 4 A7 A8 A9	RULE 5 A7 A8 A9	RULE 6 A7 A8 A9	RULE 7 A7 A8 A9	RULE 8 A7 A8 A9
1	0 0 0	X 0 0	0 X 0	0 0 X	X X 0	X 0 X	0 X X	SS(II)=-1
2	0 0 1	X 0 1	0 X 1	0 1 X	X X 1	X 1 X	0 X X	
3	0 1 0	X 1 0	1 X 0	1 0 X	X X 1	X 1 X	1 X X	
4	0 1 1	X 1 1	1 X 1	1 1 X	X X 1	X 1 X	1 X X	
5	1 0 0							
6	1 0 1							
7	1 1 0							
8	1 1 1							

Figure 2 Relationships between the rule number (XX(31)) and A7, A8, A9, and SS(II) associated with File II, 1<=II<=28



restriction currently in effect at File II; A10 is then set accordingly;

PRTF: For every run of each year, statistics are maintained for a. the minimum, maximum and average number of PYLDXPRTs launched and returned (from a downflow operation), b. the minimum, maximum and average number of CBES launched and returned, c. the minimum, maximum and average number of TQs required and d. the run number for each year which yielded the minimum and maximum for the variables in a., b. and c. Note that unless the overflow file is required, the minimum, maximum and average values associated with a. and b. will be the same for a given set of data. In addition, after each run of every year, the contents of File II,  $1 \leq II \leq 29$ , are printed out and emptied (in preparation for the next run), appropriate XX and SS variables are set back to zero, XX(33) is incremented and, if the last run for the last year was completed, tables and plots are printed for the variables in a., b. and c. (with years being the independent variable).

The above documentation should make the logic associated with the flow of PYLDXPRTs in the network of Fig. 1 easy to follow. Briefly, one year's worth of PYLDXPRTs at a time is placed into File 31 from File 30. For each year, a total of XX(32) runs are made with the order of the entities being different (in general) for each run. Each ordering yields (potentially) a different allocation of PYLDXPRTs among teststands, a different number of CBES launched and returned, etcetera. NASA personnel are interested in finding the minimum number of TQs required to complete a schedule of missions. By noting the run number yielding this minimum and matching it with the file printouts for that run, an estimate for the optimal teststand utilization may be gleaned. Increasing the value of XX(32) would, of course, increase the likelihood of finding a better allocation of the teststands. Details of the output for a particular set of PYLDXPRTs from the science and applications database will be discussed in a later section.

#### USING THE MAINFRAME VERSUS THE PC

A predecessor to the model of Fig. 1 was executed both on an IBM 4381 mainframe and on an IBM PC with 620K RAM, two disk drives and an 8087 co-processor chip. However, to run any SLAM model containing discrete (Fortran) code on the PC requires an inventory of about six disks: 3 SLAM II disks, 2 Fortran disks (a compiler and a math package) and a separate disk for holding the SLAM files, the

executable module and output files. Also, the amount of time required to compile, link and execute using the PC version was felt to be excessive. For instance, in order to correct a single Fortran syntax error, it was not uncommon to wait five or ten minutes for the compile and relink process to be completed. The same correction might require about 30 seconds on the mainframe (of course, this might be said of any Fortran-based simulation using the PC).

It is felt that the SLAM II PC version of the TSU model is too cumbersome to use (the availability of a hard disk would help to eliminate this drawback) and, because of the long Fortran compile time, not fast enough to be considered user-friendly. Thus, the sample results presented in the next section were obtained by running the Figure 1 model on an IBM 4381 mainframe.

#### DISCUSSION OF INPUT AND OUTPUT

When the TSU SLAM model is executed, the output consists of the normal SLAM reports and, via subprogram PRTF, the following information:

a. for each year of data and for each run in that year, a listing of the allocation of PYLDPRTs to each TQ in the order in which they were assigned;

b. for each year, the number of the run which resulted in the minimum and maximum number of: PYLDPRTs launched and returned, CBEs launched and returned and TQs required; and

c. tables and plots of the minimum, maximum and average number of: PYLDPRTs to and from the SS (based on A7), CBEs to and from the SS (based on A4) and TQs required for each year.

The TSU SLAM model was validated with deterministic data (see, for example, lines 156-175 of App. A) by manually verifying the allocation of PYLDPRTs (and other output parameters) for the eight possible rules. Then the TSU model was run using data associated with missions SAAX 1,4,6,7,8,11,13,16,20 and 22 of the Science and Applications database for years 1992-2001 (see lines 176-308 of App. A). A discussion of the output for this input data follows.

Appendix C shows sample output for rule number 5 (XX(31)=5) with five (XX(32)=5) runs for each year between XX(37)=1992 and XX(38)=2001. For each year and every run, the allocation of missions to TQs is shown with CBE value, A7, A8 and A9 printed for each mission. Instead of A7, A8 and A9, the notation used on output is U.1,D.0, H.1,NH.0 and P.1,NP.0, respectively. The upper case letters represent: U=up(or launch), D=down (or downflow), H=hazardous, NH=nonhazardous, P=polar orbit and NP=nonpolar orbit. The integer (0 or 1) separated by a period from the upper case letters is the input value associated with the letter. For example, for mission 1 in 1992 the printout shows

CBE=.114 U.1,D.0=1. H.1,NH.0=0. P.1,NP.0=0.,

which means the CBE value for this PYLDXPRT is .114, it is a launch to the SS (A7=1), it contains nonhazardous material (A8=0) and its orbit is nonpolar(A9=0).

In general, the allocation of PYLDXPRTS to TQs may be different for different runs. For instance, for runs 1,3,4 and 5 of 1993, only two TQs are required but for run 2 of 1993, three TQs are necessary. Clearly, the allocation of PYLDXPRTS associated with runs 1,3,4,5 are superior to that of run 2 based on minimizing the number of required TQs. Notice (e.g., run 5 for 1999) that since rule 5 is selected, polar and nonpolar PYLDXPRTS are segregated within TQs.

Following the printout of the allocation of PYLDXPRTS for the last run of the last year (run 5 of 1999 is the last run shown in App. C; a complete run with all runs for all years and XX(31)=7 is in App. D), a chart containing values of the ten variables below is shown for each year:

PUMINR= the run number yielding the minimum number of PYLDXPRTS launched  
PUMAXR= the run number yielding the maximum number of PYLDXPRTS launched  
PDMINR= the run number yielding the minimum number of PYLDXPRTS returned  
PDMAXR= the run number yielding the maximum number of PYLDXPRTS returned  
CUMINR= the run number yielding the minimum number of CBEs launched  
CUMAXR= the run number yielding the maximum number of CBEs launched  
CDMINR= the run number yielding the minimum number of CBEs returned  
CDMAXR= the run number yielding the maximum number of CBEs returned  
TQMINR= the run number yielding the minimum number of TQs required  
TQMAXR= the run number yielding the maximum number of TQs required.

The printout for the above variables allows the analyst to determine the specific allocation of PYLDXPRTs among TQs which satisfies the criteria implied by the definition of the variable. For example, under 1993 in App. C it is shown that TQMINR=1 and TQMAXR=2. Thus, the maximum number of TQs required for 1993 is depicted in run number 2 while the minimum number of TQs required is shown in run 1 (as well as runs 3,4 and 5). As was mentioned above, unless the overflow file is needed (it was not needed here), the minimums and maximums associated with the first eight variables defined above should be the same. However, roundoff errors and ties may result in different run numbers printed for some of these eight parameters -- see, for example, App. D, year 1997, and compare CUMINR and CUMAXR.

Following the ten run numbers associated with each year, a SLAM SUMMARY REPORT is printed (this is not useful information to the analyst and will not be discussed) followed by printouts of tables and plots of the minimum, maximum and average corresponding to the ten variables above for each year (the heading RUN NUMBER 1 printed above each table and plot is automatically outputted and refers to the number of times the TSU model is executed --it has nothing to do with the run numbers discussed above). Notice again that since no overflow occurred (i.e., more than XX(35)=7 teststands was not required to process the mission data), for each year, the minimum, maximum and average values are the same, except for table and plot 5 (as expected). Each plot is a graphical representation of the same data shown in the associated table -- by changing the low and high ordinate values in the VAR statements of App. A (lines 6-24), the scaling of the plots may be improved. Appendix D shows a complete output using the same set of missions with rule number XX(31)=7 employed. Choosing a larger value for the number of runs per year, XX(32), increases both the possibility of finding a more efficient scheduling of teststands as well as model execution time.

#### SUMMARY AND CONCLUSIONS

The TSU SLAM II model may be used by NASA personnel to obtain an efficient (and perhaps optimal) allocation of PYLDXPRTs among teststands satisfying given usage restrictions for any set of missions. The model output may also be used to predict the number of teststands required to process a proposed set of missions. Except for changing the values of certain XX-variables (e.g., XX(31),XX(32) and XX(35) - XX(38) in lines 64-65 of App. A) and entering the input data via SLAM ENTRY

statements (e.g., lines 176-308 in App. A), little understanding of SLAM itself is necessary to run the model. Although the model can be executed using the PC version of SLAM, the mainframe version was easier to work with. As indicated by this modeling effort, simulation is a powerful analysis tool, even when random variables are not important components of the system under study.

#### ACKNOWLEDGEMENTS

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Mr. Frank J. Sammer (formerly, an Assistant Professor of Engineering at UCF) and Ms. Nancy Lorenz (formerly, a graduate research assistant at UCF) worked closely with the principal investigator and made significant contributions during the course of this project.

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Pritsker, A. Alan B., Introduction to Simulation and SLAM II, Second Edition, John Wiley and Sons (Halsted Press), New York, 1984, 612 pp.

APPENDIX A

SLAM II statements for TSU model



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1 GEN,D LINTON,NASA3,05/20/85,1,,,,,72;
2 LIM,32,10,400;
3 PRI/30,LVF(2)/31,LVF(5);
4 ;
5 RECORD(1),SS(20),YEAR OF PAYLOAD,11,B,1,,,NO;
6 VAR,SS(21),L,MIN # PLXP TO SS,0,100; PUMIN
7 VAR,SS(22),H,MAX PLXP TO SS,0,100;X;PUMAX
8 VAR,SS(23),A,AVG PLXP TO SS,0,100;X;PUAVG
9 RECORD(2),SS(20),YEAR OF PAYLOAD,12,B,1,,,NO;
10 VAR,SS(24),L,MIN PLXP FM SS,0,100;X; PDMIN
11 VAR,SS(25),H,MAX PLXP FM SS,0,100;X; PDMAX
12 VAR,SS(26),A,AVG PLXP FM SS,0,100;X; PDAVG
13 RECORD(3),SS(20),YEAR OF PAYLOAD,13,B,1,,,NO;
14 VAR,SS(27),L,MIN CBE TO SS,0,100;X; CUMIN
15 VAR,SS(28),H,MAX CBE TO SS,0,100;X; CUMAX
16 VAR,SS(29),A,AVG CBE TO SS,0,100;X; CUAVG
17 RECORD(4),SS(20),YEAR OF PAYLOAD,14,B,1,,,NO;
18 VAR,SS(30),L,MIN CBE FM SS,0,10; CDMIN
19 VAR,SS(31),H,MAX CBE FM SS,0,10; CDMAX
20 VAR,SS(32),A,AVG CBE FM SS,0,10; CDAVG
21 RECORD(5),SS(20),YEAR OF PAYLOAD,15,B,1,,,NO;
22 VAR,SS(33),L,MIN TQS NEEDED,0,10; TQSMIN
23 VAR,SS(34),H,MAX TQS NEEDED,0,10; TQSMAX
24 VAR,SS(35),A,AVG TQS NEEDED,0,10; TQSAVG
25 ;
26 ;1 ENTITY=1 PAYLOAD TRANSPORT
27 ;II=INDEX ASSOCIATED WITH ANY TESTSTAND QUARTER(TQ)
28 ;FILE II=HOLDS ALL ENTITIES ASSOC. WITH ONE TQ,1<=II<=28
29 ;FILE 29=OVERFLOW IF XX(35)= 7
30 ;FILE 30=ALL ENTITIES FOR ALL YEARS AT NODE ALLP
31 ;FILE 31=INPUT FILE FOR PAYLOAD TRANSPORTS AT NODE PYLD
32 ;FILE 32=DUPLICATED INPUT FILE, A GATE
33 ;
34 ;XX(II)=TOTAL AMOUNT OF CBE CURRENTLY IN TQ II,1<=II<=28
35 ;XX(31)=I, IF RULE NO. I,1<=I<=8,SET BY USER IN INTLC,IS IN EFFECT
36 ;XX(32)=TOTAL NO. OF RUNS DESIRED,SET BY USER IN INTLC
37 ;XX(33)=CURRENT NUMBER OF RUNS COMPLETED NOW(XX(33)=0 IN INTLC)
38 ;XX(34)=TOTAL NO. ENTITIES IN FILE 30(NOT COUNTING A1=0 ENTITIES)
39 ;XX(35)=TOTAL NO. OF TESTSTANDS BEING MODELED(1<=XX(35)<=7)
40 ;XX(36)=CURRENT YEAR BEING PROCESSED(SET TO XX(37) IN INTLC)
41 ;XX(37)=FIRST YEAR IN THE SEQUENCE
42 ;XX(38)=LAST YEAR IN SEQUENCE
43 ;ATRIB(1)=MISSION #(A1=0,A5=1000 FOR LAST ENTITY)
44 ; (2)=YEAR OF PAYLOAD

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45 ;      (3)=NOT USED
46 ;      (4)=CBE VALUE
47 ;      (5)=RANDOM NO. FOR SHUFFLING INPUT DATA FOR SUCCESSIVE RUNS
48 ;      (6)=FILE NUMBER FOR FILING ENTITIES INTO APPROPRIATE TQ
49 ;      (7)=0,DOWNFLOW;1,LAUNCH
50 ;      (8)=0,NONHAZARDOUS;1,HAZARDOUS
51 ;      (9)=0,LOW INCLINATION ORBIT;1,POLAR ORBIT
52 ;      (10)=1,IF ENTITY AT NODE SA10 SATISFIES RULE ASSOCIATED
53 ;          WITH XX(31),SS(II), FOR FILING AT II
54 ;          =0,IF ENTITY DOES NOT SATISFY RULE FOR FILE II AT NODE SA10
55 ;SS(II)=1,2,...,8, DEPENDING UPON VALUE OF XX(31) AND ATRIBS 7,8,9
56 ;      FOR FILE II (SET AT NODE STSS)
57 ;
58 ;RULE 1 = SEGREGATE ON A7,A8,A9      RULE 5=SEGREGATE ON A9 ONLY
59 ;RULE 2 =          ON      A8,A9      RULE 6=          ON A8 ONLY
60 ;RULE 3 =          ON A7,  A9      RULE 7=          ON A7 ONLY
61 ;RULE 4 =          ON A7,A8      RULE 8= NO SEGREGATION
62 ;
63 ;
64 INTLC,XX(31)=5,XX(32)=5,XX(33)=0,XX(34)=8,XX(35)=7;
65 INTLC,XX(36)=1992,XX(37)=1992,XX(38)=2001;
66 NETWORK;
67     RES/PYLDXPRT(0),31; FOR PAYLOAD XPRTS FOR YEAR IN PROCESS
68     RES/ALLPYLDS(1),30; FOR ALL PYLD XPRTS FOR ALL YEARS
69     GAT/DUPGATE,CLOSED,32;
70     RES/TQ1(0),1;
71     RES/TQ2(0),2;
72     RES/TQ3(0),3;
73     RES/TQ4(0),4;
74     RES/TQ5(0),5;
75     RES/TQ6(0),6;
76     RES/TQ7(0),7;
77     RES/TQ8(0),8;
78     RES/TQ9(0),9;
79     RES/TQ10(0),10;
80     RES/TQ11(0),11;
81     RES/TQ12(0),12;
82     RES/TQ13(0),13;
83     RES/TQ14(0),14;
84     RES/TQ15(0),15;
85     RES/TQ16(0),16;
86     RES/TQ17(0),17;
87     RES/TQ18(0),18;
88     RES/TQ19(0),19;

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89      RES/TQ20(0),20;
90      RES/TQ21(0),21;
91      RES/TQ22(0),22;
92      RES/TQ23(0),23;
93      RES/TQ24(0),24;
94      RES/TQ25(0),25;
95      RES/TQ26(0),26;
96      RES/TQ27(0),27;
97      RES/TQ28(0),28;
98      RES/MORETSDS(0),29;
99  ALLP  AWAIT(30),ALLPYLDS/1,2; M=2
100      ACT,,XX(36).GE.ATRIB(2),PYLD;
101      ACT,,XX(36).GE.ATRIB(2),NXTY;
102      ACT,,,ALLP;
103      ACT,.01,,NEXT;
104  NXTY  FREE,ALLPYLDS/1;
105  T1    TERM;
106      ;
107  PYLD  AWAIT(31),PYLDPRT/1,2; M=2
108      ACT,,ATRIB(1).EQ.0.,DUPG;LAST ENTITY 4 ALL RUNS HAS A1,A5 SET
109      ACT,,ATRIB(1).GT.0,II0;
110      ACT,,ATRIB(1).EQ.0,PRNT;
111      ACT,,,ARAN;
112  ARAN  ASS,ATRIB(5)=DRAND;
113  DUPG  AWAIT(32),DUPGATE;
114      ACT,,,PYLD;
115  PRNT  EVENT,3,1;JEVNT=3,PRINT OUT FILES,XX(33)=XX(33)+1
116      ACT,,XX(33).GE.XX(32),ENDY;
117      ACT,.01,,OPND;DELAY OPENING SO ZERO TIME ACTIVS COMPLETED
118  OPND  OPEN,DUPGATE;
119      ACT,.01;
120      CLOSE,DUPGATE;
121      ACT,.01,,NEXT;
122  ENDY  ASS,XX(36)=XX(36)+1,XX(33)=0,1;
123      ACT,,XX(36).GT.XX(38),END;IF DONE,TERMINATE
124      ACT,,,NXTY;DO NEXT YEARS ENTITIES
125  END   TERM,1; END LAST RUN OF LAST YEAR
126  II0   ASS,II=0;
127  GO    GOON;
128  {IPI  ASS,II=II+1,1;
129  31    GOON,1; M=1
130      ACT,,II.GT.4*XX(35),MORE; XX(35)=NO. TESTSTANDS MODELED
131      ACT,,XX(II)+ATRIB(4).LE.1.,G2;
132      ACT,,,G0;

```

```

133 MORE      ASS, ATRIB(6)=4*XX(35)+1;
134          ACT,,,G3;
135 G2        GOON,1;
136          ACT,,NNQ(II).GT.0,SA10;
137          ACT,,NNQ(II).EQ.0,A1;
138 SA10      EVENT,2,1; JEVNT=2, SET ATRIB(10)
139          ACT,,ATRI(10).EQ.1,A1; ENTITY MATCHES RULE FOR II
140          ACT,,ATRI(10).EQ.0,G0; ENTITY DOESNT MATCH RULE AT FILE II
141 A1        ASS,XX(II)=XX(II)+ATRI(4),ATRI(6)=II,1;
142          ACT,,ATRI(10).EQ.0,STSS;
143          ACT,,ATRI(10).EQ.1,G3;
144 STSS      EVENT,1,1; JEVNT=1,SET SS(II) BASED ON XX(31) RULE NUMBER
145          ACT,,,G3;
146 G3        GOON,2;
147          ACT,.01,,NEXT;
148          ACT,,,TSDS;
149 NEXT      FREE,PYLDXPRT/1,1;
150          TERM;
151 TSDS      AWAIT(ATRI(6)=1,29),ATRI(6)/1;
152          TERM;
153          ENDNETWORK;
154 INIT,0.,20.;
155 ;ONTR,TRACE,1.5,3.,2,5,-33,-36,-37,-38;
156 ;NT/30,1,1993,0,.24,1,0,0,0,0; A7=A8=A9=0
157 ;NT/30,2,1993,0,.24,5,0,0,0,1; A7=A8=0,A9=1
158 ;NT/30,3,1993,0,.60,3,0,0,1,0; A7=A9=0,A8=1
159 ;NT/30,4,1993,0,.36,2,0,1,0,0; A7=1,A8=A9=0
160 ;NT/30,5,1993,0,.50,4,0,0,1,1; A7=0,A8=A9=1
161 ;NT/30,6,1993,0,.50,6,0,1,0,1; A7=A9=1,A8=0
162 ;NT/30,7,1993,0,.24,7,0,1,1,0; A7=A8=1,A9=0
163 ;NT/30,8,1993,0,.18,8,0,1,1,1; A7=A8=A9=1
164 ;NT/30,0,1993,0,0,1000.; LAST ENTRY IN FILE 30
165 ;NT/30,1,1994,0,.72,1,0,0,0,0; 1ST ENTRY OF 1994
166 ;NT/30,2,1994,0,.52,2,0,0,0,1;
167 ;NT/30,3,1994,0,.52,3,0,0,1,0;
168 ;NT/30,4,1994,0,.47,4,0,1,0,0;
169 ;NT/30,5,1994,0,.47,5,0,0,1,1;
170 ;NT/30,6,1994,0,.27,6,0,1,0,1;
171 ;NT/30,7,1994,0,.27,7,0,1,1,0;
172 ;NT/30,8,1994,0,.27,8,0,1,1,1;
173 ;NT/30,9,1994,0,.27,9,0,1,1,1;
174 ;NT/30,0,1994,0,0,1000; LAST 1994 ENTRY
175 ;NT/30,0,1995,0,0,1000; ONLY 1995 ENTRY
176 ; NASA DATA MAY 1985, FOR YEARS 1992 TO 2001

```

177 ENT/30,0,1992,0,0,1000; DUMMY ENTRIES FOR FOR1 1992 TO 2002  
178 ENT/30,0,1993,0,0,1000;  
179 ENT/30,0,1994,0,0,1000;  
180 ENT/30,0,1995,0,0,1000;  
181 ENT/30,0,1996,0,0,1000;  
182 ENT/30,0,1997,0,0,1000;  
183 ENT/30,0,1998,0,0,1000;  
184 ENT/30,0,1999,0,0,1000;  
185 ENT/30,0,2000,0,0,1000;  
186 ENT/30,0,2001,0,0,1000;  
187 ENT/30,0,2002,0,0,1000; LAST DUMMY ENTRY FOR LAST YEAR + (1)  
188 ; BEGINNING OF ACTUAL DATA FOR 1992 TO 2001  
189 ENT/30,1,1992,0,.114,0,0,1,0,0; ASSUME A5=DRAND # =0 FOR INITIAL DATA  
190 ENT/30,1,1994,0,.114,0,0,0,0,0;  
191 ENT/30,4,1993,0,.148,0,0,1,0,0;  
192 ENT/30,4,1995,0,.194,0,0,1,0,0;  
193 ENT/30,4,1995,0,.074,0,0,0,0,0;  
194 ENT/30,4,1997,0,.194,0,0,1,0,0;  
195 ENT/30,4,1997,0,.074,0,0,0,0,0;  
196 ENT/30,4,1999,0,.194,0,0,1,0,0;  
197 ENT/30,4,1999,0,.074,0,0,0,0,0;  
198 ENT/30,4,2001,0,.194,0,0,1,0,0;  
199 ENT/30,4,2001,0,.074,0,0,0,0,0;  
200 ENT/30,6,1995,0,.119,0,0,1,0,0;  
201 ENT/30,6,1998,0,.0185,0,0,1,0,0;  
202 ENT/30,6,1998,0,.0185,0,0,0,0,0;  
203 ENT/30,6,2000,0,.119,0,0,0,0,0;  
204 ENT/30,7,1995,0,.185,0,0,1,0,0;  
205 ENT/30,7,1998,0,.004,0,0,1,0,0;  
206 ENT/30,7,1998,0,.004,0,0,0,0,0;  
207 ENT/30,7,2000,0,.185,0,0,0,0,0;  
208 ENT/30,8,1995,0,.111,0,0,1,0,1; POLAR FOR MISSION 8  
209 ENT/30,8,1996,0,.006,0,0,1,0,1;  
210 ENT/30,8,1996,0,.006,0,0,0,0,1;  
211 ENT/30,8,1997,0,.006,0,0,1,0,1;  
212 ENT/30,8,1997,0,.006,0,0,0,0,1;  
213 ENT/30,8,1998,0,.006,0,0,1,0,1;  
214 ENT/30,8,1998,0,.006,0,0,0,0,1;  
215 ENT/30,8,1999,0,.006,0,0,1,0,1;  
216 ENT/30,8,1999,0,.006,0,0,0,0,1;  
217 ENT/30,8,2000,0,.006,0,0,1,0,1;  
218 ENT/30,8,2000,0,.006,0,0,0,0,1;  
219 ENT/30,8,2001,0,.006,0,0,1,0,1;  
220 ENT/30,8,2001,0,.006,0,0,0,0,1;

221 ;  
222 ;  
223 ;FROM MISSION 11 (2ND PAGE OF DATA)  
224 ENT/30,11,1993,0,.463,0,0,1,0,0;  
225 ENT/30,11,1996,0,.056,0,0,1,0,0;  
226 ENT/30,11,1999,0,.056,0,0,1,0,0;  
227 ENT/30,13,1993,0,.581,0,0,0,0,0;  
228 ENT/30,16,1994,0,.111,0,0,1,0,0;  
229 ENT/30,16,1994,0,.111,0,0,0,0,0;  
230 ENT/30,16,1997,0,.111,0,0,1,0,0;  
231 ENT/30,16,1997,0,.111,0,0,0,0,0;  
232 ENT/30,16,2000,0,.111,0,0,1,0,0;  
233 ENT/30,16,2000,0,.111,0,0,0,0,0;  
234 ENT/30,20,1997,0,1.,0,0,1,0,0; CBE=1  
235 ENT/30,20,1997,0,1.,0,0,1,0,0; CBE=1  
236 ENT/30,20,1999,0,.074,0,0,1,0,0;  
237 ENT/30,20,1999,0,.004,0,0,0,0,0;  
238 ;  
239 ENT/30,20,2001,0,.074,0,0,1,0,0;  
240 ENT/30,20,2001,0,.004,0,0,0,0,0;  
241 ENT/30,22,1992,0,.167,0,0,1,0,0;  
242 ENT/30,22,1993,0,.085,0,0,1,0,0;  
243 ENT/30,22,1993,0,.085,0,0,1,0,0;  
244 ENT/30,22,1993,0,.085,0,0,1,0,0;  
245 ENT/30,22,1993,0,.085,0,0,1,0,0;  
246 ENT/30,22,1993,0,.084,0,0,0,0,0;  
247 ENT/30,22,1993,0,.084,0,0,0,0,0;  
248 ENT/30,22,1993,0,.084,0,0,0,0,0;  
249 ENT/30,22,1993,0,.084,0,0,0,0,0;  
250 ENT/30,22,1994,0,.085,0,0,1,0,0;  
251 ENT/30,22,1994,0,.085,0,0,1,0,0;  
252 ENT/30,22,1994,0,.085,0,0,1,0,0;  
253 ENT/30,22,1994,0,.085,0,0,1,0,0;  
254 ENT/30,22,1994,0,.084,0,0,0,0,0;  
255 ENT/30,22,1994,0,.084,0,0,0,0,0;  
256 ENT/30,22,1994,0,.084,0,0,0,0,0;  
257 ENT/30,22,1994,0,.084,0,0,0,0,0;  
258 ENT/30,22,1995,0,.085,0,0,1,0,0;  
259 ENT/30,22,1995,0,.085,0,0,1,0,0;  
260 ENT/30,22,1995,0,.085,0,0,1,0,0;  
261 ENT/30,22,1995,0,.085,0,0,1,0,0;  
262 ENT/30,22,1995,0,.084,0,0,0,0,0;  
263 ENT/30,22,1995,0,.084,0,0,0,0,0;  
264 ENT/30,22,1995,0,.084,0,0,0,0,0;

265 ENT/30,22,1995,0,.084,0,0,0,0,0;  
266 ENT/30,22,1996,0,.085,0,0,1,0,0;  
267 ENT/30,22,1996,0,.085,0,0,1,0,0;  
268 ENT/30,22,1996,0,.085,0,0,1,0,0;  
269 ENT/30,22,1996,0,.085,0,0,1,0,0;  
270 ENT/30,22,1996,0,.084,0,0,0,0,0;  
271 ENT/30,22,1996,0,.084,0,0,0,0,0;  
272 ENT/30,22,1996,0,.084,0,0,0,0,0;  
273 ENT/30,22,1996,0,.084,0,0,0,0,0;  
274 ENT/30,22,1997,0,.085,0,0,1,0,0;  
275 ENT/30,22,1997,0,.085,0,0,1,0,0;  
276 ENT/30,22,1997,0,.085,0,0,1,0,0;  
277 ENT/30,22,1997,0,.085,0,0,1,0,0;  
278 ENT/30,22,1997,0,.084,0,0,0,0,0;  
279 ENT/30,22,1997,0,.084,0,0,0,0,0;  
280 ENT/30,22,1997,0,.084,0,0,0,0,0;  
281 ENT/30,22,1997,0,.084,0,0,0,0,0;  
282 ENT/30,22,1998,0,.085,0,0,1,0,0;  
283 ENT/30,22,1998,0,.085,0,0,1,0,0;  
284 ENT/30,22,1998,0,.085,0,0,1,0,0;  
285 ENT/30,22,1998,0,.085,0,0,1,0,0;  
286 ENT/30,22,1998,0,.084,0,0,0,0,0;  
287 ENT/30,22,1998,0,.084,0,0,0,0,0;  
288 ENT/30,22,1998,0,.084,0,0,0,0,0;  
289 ENT/30,22,1998,0,.084,0,0,0,0,0;  
290 ENT/30,22,1999,0,.085,0,0,1,0,0;  
291 ENT/30,22,1999,0,.085,0,0,1,0,0;  
292 ENT/30,22,1999,0,.085,0,0,1,0,0;  
293 ENT/30,22,1999,0,.085,0,0,1,0,0;  
294 ENT/30,22,1999,0,.084,0,0,0,0,0;  
295 ENT/30,22,1999,0,.084,0,0,0,0,0;  
296 ENT/30,22,1999,0,.084,0,0,0,0,0;  
297 ENT/30,22,1999,0,.084,0,0,0,0,0;  
298 ENT/30,22,2000,0,.085,0,0,1,0,0;  
299 ENT/30,22,2000,0,.085,0,0,1,0,0;  
300 ENT/30,22,2000,0,.085,0,0,1,0,0;  
301 ENT/30,22,2000,0,.085,0,0,1,0,0;  
302 ENT/30,22,2000,0,.084,0,0,0,0,0;  
303 ENT/30,22,2000,0,.084,0,0,0,0,0;  
304 ENT/30,22,2000,0,.084,0,0,0,0,0;  
305 ENT/30,22,2000,0,.084,0,0,0,0,0;  
306 ENT/30,22,2001,0,.085,0,0,1,0,0;  
307 ENT/30,22,2001,0,.085,0,0,1,0,0;  
308 ENT/30,22,2001,0,.085,0,0,1,0,0;

309 ENT/30,22,2001,0,.085,0,0,1,0,0;  
310 ENT/30,22,2001,0,.084,0,0,0,0,0;  
311 ENT/30,22,2001,0,.084,0,0,0,0,0;  
312 ENT/30,22,2001,0,.084,0,0,0,0,0;  
313 ENT/30,22,2001,0,.084,0,0,0,0,0;  
314 ; END OF DATA FOR MISSIONS SAAX 1,4,6,7,8,11,13,16,20,22  
315 ; SOME MISSIONS WERE SKIPPED DUE TO UNCLEAR, INCORRECT OR INSUFF. DATA  
316 FIN;

S L A M E C H O R E P O R T

SIMULATION PROJECT NASA3

BY D LINTON

DATE 5/20/1985

RUN NUMBER 1 OF 1

SLAM VERSION JUN 84

GENERAL OPTIONS

APPENDIX B

Fortran source code listings for  
MAIN, EVENT, SETSS, SETA10 and PRTF

DIMENSION NSET(100000)

COMMON/SCOM1/ ATRIB(100),DD(100),DDL(100),DTNOW,II,MFA,MSTOP,NCLNR  
1,NCRDR,NPRNT,NNRUN,NNSET,NTAPE,SS(100),SSL(100),TNEXT,TNOW,XX(100)  
MAIN PROGRAM FOR NASA3

COMMON QSET(100000)  
EQUIVALENCE(NSET(1),QSET(1))  
NNSET=100000  
NCRDR=5  
NPRNT=6  
NTAPE=7  
CALL SLAM  
STOP  
END

\* \* END OF FILE \* \* \*

SUBROUTINE EVENT(I)

FOR NASA2

GOTO(1,2,3),I  
CALL SETSS  
RETURN  
CALL SETA10  
RETURN  
CALL PRTF  
RETURN  
END

\* \* END OF FILE \* \* \*



SUBROUTINE SETSS

COMMON/SCOM1/ ATRIB(100),DD(100),DDL(100),DTNOW,II,MFA,MSTOP,NCLNR  
1,NCRDR,NPRNT,NNRUN,NNSET,NTAPE,SS(100),SSL(100),TNEXT,TNOW,XX(100)  
CALLED AT NODE STSS IN NASA2

XX(31)=RULE # SET BY USER IN INTLC

I7=ATRIB(7)

I8=ATRIB(8)

I9=ATRIB(9)

KEY=XX(31)

L=1

GOTO(1,2,3,4,5,6,7,8),KEY

RULE1, SEGREGATE ON A7,A8,AC

CONTINUE

DO11I=1,2

IM1=I-1

DO12J=1,2

JM1=J-1

DO13K=1,2

KM1=K-1

IF(I7.EQ.IM1.AND.I8.EQ.JM1.AND.I9.EQ.KM1)GOTO1000

L=L+1

CONTINUE

CONTINUE

CONTINUE

GOTO99

RULE 2 ,SEGR ON A8,A9

CONTINUE

DO21I=1,2

IM1=I-1

DO22J=1,2

JM1=J-1

IF(I8.EQ.IM1 .AND. I9.EQ.JM1) GOTO1000

L=L+1

CONTINUE

CONTINUE

GOTO99

RULE 3, SEGR ON A7,A9

CONTINUE

DO31I=1,2

IM1=I-1

DO32J=1,2

```

JM1=J-1
IF(I7.EQ.IM1 .AND. I9.EQ.JM1) GOTO1000
    L=L+1
CONTINUE
CONTINUE
GOTO99
RULE 4, SEGR A7,A8
CONTINUE
DO41I=1,2
    IM1=I-1
DO42J=1,2
    JM1=J-1
IF(I7.EQ.IM1 .AND. I8.EQ.JM1) GOTO1000
    L=L+1
CONTINUE
CONTINUE
GOTO99
RULE 5, A9
CONTINUE
IF(I9.EQ.0) SS(II)=1
IF(I9.EQ.1)SS(II)=2
IF(I9 .NE. 0 .AND. I9.NE.1) GOTO99
RETURN
RULE 6, A8
CONTINUE
IF(I8.EQ.0) SS(II)=1
IF(I8.EQ.1)SS(II)=2
IF(I8.NE.0 .AND. I8.NE.1)GOTO99
RETURN
RULE 7, A7
CONTINUE
IF(I7.EQ.0) SS(II)=1
IF(I7.EQ.1) SS(II)=2
IF(I7.NE.0 .AND. I7.NE.1) GOTO99
RETURN
RULE 8,NO SEGREGATION; SET SS(II)=-1
CONTINUE
SS(II)=-1
RETURN
WRITE(NPRNT,900)KEY
0   FORMAT(1X,' ***** ERROR IN SETSS *****   KEY= ',I3)
RETURN
00  SS(II)=L
RETURN
END
* * END OF FILE * * *

```

SUBROUTINE SETA10

COMMON/SCOM1/ ATRIB(100),DD(100),DDL(100),DTNOW,II,MFA,MSTOP,NCLNR  
1,NCRDR,NPRNT,NNRUN,NNSET,NTAPE,SS(100),SSL(100),TNEXT,TNOW,XX(100)  
CALLED AT NODE SA10 IN NASA2

SS(II)	RULE1	RULE2	RULE3	RULE4	RULE5	RULE6	RULE7	RULE8
1	000	X00	0X0	00X	XX0	X0X	0XX	SS=-1
2	001	X01	0X1	01X	XX1	X1X	1XX	
3	010	X10	1X0	10X				
4	011	X11	1X1	11X				
5	100							
6	101							
7	110							
8	111							

XX(31)=RULE # SET BY USER IN INTLC

```
I7=ATRIB(7)
I8=ATRIB(8)
I9=ATRIB(9)
KEY=XX(31)
KEY1=SS(II)
L=1
GOTO(1,2,3,4,5,6,7,8),KEY
RULE1, SEGREGATE ON A7,A8,A9
CONTINUE
DO11I=1,2
IM1=I-1
DO12J=1,2
JM1=J-1
DO13K=1,2
KM1=K-1
IF (I7.EQ.IM1.AND.I8.EQ.JM1.AND.I9.EQ.KM1 .AND.KEY1.EQ.L)GOTO1000
L=L+1
CONTINUE
CONTINUE
CONTINUE
```

```

GOTO99
RULE 2 ,SEGR ON A8,A9
CONTINUE
DO21I=1,2
IM1=I-1
DO22J=1,2
JM1=J-1
IF(I8.EQ.IM1 .AND. I9.EQ.JM1 .AND. KEY1.EQ.L)GOTO1000
    L=L+1
CONTINUE
CONTINUE
GOTO99
RULE 3, SEGR ON A7,A9
CONTINUE
DO31I=1,2
IM1=I-1
DO32J=1,2
JM1=J-1
IF(I7.EQ.IM1 .AND. I9.EQ.JM1 .AND. KEY1.EQ.L)GOTO1000
    L=L+1
CONTINUE
CONTINUE
GOTO99
RULE 4, SEGR A7,A8
CONTINUE
DO41I=1,2
    IM1=I-1
DO42J=1,2
    JM1=J-1
IF(I7.EQ.IM1 .AND. I8.EQ.JM1 .AND. KEY1.EQ.L)GOTO1000
    L=L+1
CONTINUE
CONTINUE
GOTO99
RULE 5, A9
CONTINUE
IF(I9.EQ.0 .AND. KEY1.EQ.1 .OR. I9.EQ.1 .AND. KEY1.EQ.2)
1 ATRIB(10)=1
IF(I9 .NE. 0 .AND. I9.NE.1) GOTO99
RETURN
RULE 6, A8
CONTINUE
IF(I8.EQ.0 .AND. KEY1.EQ.1 .OR. I8.EQ.1 .AND. KEY1.EQ.2)
1 ATRIB(10)=1

```

```
IF(I8.NE.0 .AND. I8.NE.1)GOTO99
RETURN
RULE 7, A7
CONTINUE
IF(I7.EQ.0 .AND. KEY1.EQ.1 .OR. I7.EQ.1 .AND. KEY1.EQ.2)
1 ATRIB(10)=1
IF(I7.NE.0 .AND. I7.NE.1) GOTO99
RETURN
RULE 8,NO SEGREGATION; SET ATRIB(10)=1
CONTINUE
ATRIB(10)=1
RETURN
ATRIB(10)=0
WRITE(NPRNT,900)KEY,KEY1,II
0 FORMAT(1X,' ***** IN SETA10 ***** KEY,SS(II),II= ', 3I4)
RETURN

00 ATRIB(10)=1
RETURN
END
* * END OF FILE * * *
```

SUBROUTINE PRTF

COMMON/SCOM1/ ATRIB(100),DD(100),DDL(100),DTNOW,II,MFA,MSTOP,NCLNR  
1,NCRDR,NPRNT,NNRUN,NNSET,NTAPE,SS(100),SSL(100),TNEXT,TNOW,XX(100)  
FOR NASA3

DIMENSION PLUP(20,20),PLDN(20,20),CBUP(20,20),CBDN(20,20),  
1TQS(20,20),PUMIN(20),PUMAX(20),PUAVG(20),CUMIN(20),CUMAX(20)  
2,CUAVG(20),TQSMIN(20),TQSMA(20),TQSAVG(20),PDMIN(20),PDMAX(20),  
3PDAVG(20),CDMIN(20),CDMAX(20),CDAVG(20)

DIMENSIONPUMINR(20),CUMINR(20),PDMINR(20),CDMINR(20),TQMINR(20),  
1 PUMAXR(20),CUMAXR(20),PDMAXR(20),CDMAXR(20),TQMAXR(20)  
DATA PUMIN,CUMIN,PDMIN,CDMIN,TQSMIN/100\*1000./  
DATA PUMAX,CUMAX,PDMAX,CDMAX,TQSMA/100\*-1./

DIMENSION A(100)  
IFIL=4\*XX(35) + 1  
ITSDS=XX(35)  
IRULE=XX(31)  
IRUN=XX(33)+1  
ITOTR=XX(32)  
IYR=XX(36)-XX(37)+1  
WRITE(NPRNT,1001)XX(36)

WRITE(NPRNT,10)IRULE,ITSDS,IRUN,ITOTR  
01 FORMAT(/,1X,' FOR YEAR ',F5.0,20('\*') )  
FORMAT(/,1X,' USING RULE NO.',I2,1X,'WITH',I2,' TESTSTANDS,THIS

1 IS RUN',I2,' OF',I2)  
IFIL = TOTAL NO. OF FILES, INCLUDING OVERFLOW FILE  
DO 1 I=1,IFIL  
J=NNQ(I)  
IF(J.EQ.0)GOTO1  
IF(I.EQ.IFIL)GOTO80  
WRITE(NPRNT,4) I  
FORMAT( /,2X,' FOR TESTSTAND-QUARTER NO. ',I3)  
GOTO81  
WRITE(NPRNT,44)  
FORMAT(/,2X,' FOR OVERFLOW PAYLOAD TRANSPORTS')  
SUM=0  
DO2 K=1,J  
CALL RMOVE(1,I,A)  
BY CALLING REMOVE & NOT FILEM AFTER, ALL IFIL FILES ARE EMPTIED  
I7=A(7)  
IF(I7.EQ.0)GOTO100

```

A(7)=1, UP FROM GRND TO SPACE STATION
  PLUP(IYR,IRUN)=PLUP(IYR,IRUN) + 1
  CBUP(IYR,IRUN)=CBUP(IYR,IRUN)+A(4)
  GOTO 85
00 A(7)=0, DOWN FRM SS TO GRND
0  PLDN(IYR,IRUN)=PLDN(IYR,IRUN)+1
  CBDN(IYR,IRUN)=CBDN(IYR,IRUN)+A(4)
  CONTINUE

  WRITE(NPRNT,5) K
  WRITE(NPRNT,6)A(1),A(4),(A(L),L=7,9)
  SUM=SUM + A(4)
  FORMAT(/,5X,' FOR ENTRY NO. ',I3)
  FORMAT( 6X,' MISSION = ',F3.0,1X,'CBE= ',F6.3,1X,' U.1,D.0 ='
1  ,F3.0,1X,'H.1,NH.0 =',F3.0,1X,' P.1,NP.0 =',F3.0)
  FORMAT( 1X,' TOTAL CBE VALUE FOR FILE ',I2,' = ',F7.3,/ )
  CONTINUE
  TQS(IYR,IRUN)=I
  WRITE(NPRNT,7)I,SUM
  CONTINUE

  IF(PUMIN(IYR).GT.PLUP(IYR,IRUN))GOTO3001
00  IF(PUMAX(IYR).LT.PLUP(IYR,IRUN))GOTO3003
02  IF(CUMIN(IYR).GT.CBUP(IYR,IRUN))GOTO3005
04  IF(CUMAX(IYR).LT.CBUP(IYR,IRUN))GOTO3007
06  IF(PDMIN(IYR).GT.PLDN(IYR,IRUN))GOTO3009
08  IF(PDMAX(IYR).LT.PLDN(IYR,IRUN))GOTO3011
10  IF(CDMIN(IYR).GT.CBDN(IYR,IRUN))GOTO3013
12  IF(CDMAX(IYR).LT.CBDN(IYR,IRUN))GOTO3015
14  IF(TQSMIN(IYR).GT.TQS(IYR,IRUN))GOTO3017
16  IF(TQSMAX(IYR).LT.TQS(IYR,IRUN))GOTO3019
  GOTO4000
01  PUMIN(IYR)=PLUP(IYR,IRUN)
  PUMINR(IYR)=IRUN
  GOTO3000
03  PUMAX(IYR)=PLUP(IYR,IRUN)
  PUMAXR(IYR)=IRUN
  GOTO3002
05  CUMIN(IYR)=CBUP(IYR,IRUN)
  CUMINR(IYR)=IRUN
  GOTO3004
07  CUMAX(IYR)=CBUP(IYR,IRUN)
  CUMAXR(IYR)=IRUN
  GOTO3006

```

```

09  PDMIN(IYR)=PLDN(IYR,IRUN)
    PDMINR(IYR)=IRUN
    GOTO3008
11  PDMAX(IYR)=PLDN(IYR,IRUN)
    PDMAXR(IYR)=IRUN
    GOTO3010
13  CDMIN(IYR)=CBDN(IYR,IRUN)
    CDMINR(IYR)=IRUN
    GOTO3012
15  CDMAX(IYR)=CBDN(IYR,IRUN)
    CDMAXR(IYR)=IRUN
    GOTO3014
17  TQSMIN(IYR)=TQS(IYR,IRUN)
    TQMINR(IYR)=IRUN
    GOTO3016
19  TQSMAX(IYR)=TQS(IYR,IRUN)
    TQMAXR(IYR)=IRUN
00  CONTINUE
    XX(33)=XX(33) + 1
AFTER INCREMENTATION, XX(33)= TOTAL # RUNS COMPLETED AT TNOW
ASSUMING XX(33) SET TO 0 IN INTLC
    IF(XX(33).LT. XX(32))GOTO500
HERE, XX(33).GE. XX(32) SO EMPTY DUGATE(FILE 32)
    I=NNQ(32)
    DO 499 J=1,I
9    CALL RMOVE(1,32,A)
0    CONTINUE
    DO60 I=1,IFIL
    XX(I)=0.
    SS(I)=0.
    CONTINUE
BEFORE RETURN, SET APPROPRIATE XX AND SS VARS=0;THEN NEXT RUN
    IF(XX(36) .GE. XX(38) .AND. XX(33).GE.XX(32))GOTO200
    RETURN

00
0  CONTINUE
    NYRS=XX(38)-XX(37)+1

    DO800 I=1,NYRS
    YEAR=XX(37)+I-1
    WRITE(NPRNT,801)YEAR
1  FORMAT(5X,' TO FIND BEST RUN NO. FOR YEAR ',F6.0,25('-') )
    WRITE(NPRNT,803)

```



```

3   FORMAT(/,10X,'PUMINR',2X,'PDMINR',2X,'CUMINR',2X,'CDMINR',2X,
1   'TQMINR')
   WRITE(NPRNT,802)PUMINR(I),PDMINR(I),CUMINR(I),CDMINR(I),TQMINR(I)
2   FORMAT(10X,5(F6.0,2X))
   WRITE(NPRNT,804)
4   FORMAT(/,10X,'PUMAXR',2X,'PDMAXR',2X,'CUMAXR',2X,'CDMAXR',2X,
1   'TQMAXR')
   WRITE(NPRNT,802)PUMAXR(I),PDMAXR(I),CUMAXR(I),CDMAXR(I),TQMAXR(I)
0   CONTINUE
   DO300I=1,NYRS
   PUAVG(I)=0
   PDAVG(I)=0
   CUAVG(I)=0
   CDAVG(I)=0
   TQSAVG(I)=0
   DO301J=1,ITOTR
   PUAVG(I)=PUAVG(I)+PLUP(I,J)
   PDAVG(I)=PDAVG(I)+PLDN(I,J)
   CUAVG(I)=CUAVG(I)+CBUP(I,J)
   CDAVG(I)=CDAVG(I)+CBDN(I,J)
   TQSAVG(I)=TQSAVG(I)+TQS(I,J)
1   CONTINUE
   PUAVG(I)=PUAVG(I)/XX(32)
   PDAVG(I)=PDAVG(I)/XX(32)
   CUAVG(I)=CUAVG(I)/XX(32)
   CDAVG(I)=CDAVG(I)/XX(32)
   TQSAVG(I)=TQSAVG(I)/XX(32)
0   CONTINUE

```

PLOTTING FOLLOWS

```

DO400I=1,NYRS
SS(20)=XX(37)+I-1
SS(21)=PUMIN(I)
SS(22)=PUMAX(I)
SS(23)=PUAVG(I)
CALL GPLOT(1)
SS(24)=PDMIN(I)
SS(25)=PDMAX(I)
SS(26)=PDAVG(I)
CALL GPLOT(2)
SS(27)=CUMIN(I)
SS(28)=CUMAX(I)
SS(29)=CUAVG(I)

```

```
CALL GPLOT(3)
SS(30)=CDMIN(I)
SS(31)=CDMAX(I)
SS(32)=CDAVG(I)
CALL GPLOT(4)
SS(33)=TQSMIN(I)
SS(34)=TQSMAX(I)
SS(35)=TQSAVG(I)
CALL GPLOT(5)
0 CONTINUE
```

```
RETURN
END
```

```
* * END OF FILE * * *
```

APPENDIX C

Sample TSU model output using rule 5

FOR YEAR 1992.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS,THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 1. CBE= 0.114 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.167 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.281

FOR YEAR 1992.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS,THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 1. CBE= 0.114 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.167 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.281

FOR YEAR 1992.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS,THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 1. CBE= 0.114 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.167 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.281

FOR YEAR 1992.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS, THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 22. CBE= 0.167 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 1. CBE= 0.114 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.281

FOR YEAR 1992.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS, THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 22. CBE= 0.167 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 1. CBE= 0.114 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.281

FOR YEAR 1993.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS, THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 4. CBE= 0.148 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 11. CBE= 0.463 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.951

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 13. CBE= 0.581 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.917

FOR YEAR 1993.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS, THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 4. CBE= 0.148 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 8  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 9  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.824

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 13. CBE= 0.581 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.581

FOR TESTSTAND-QUARTER NO. 3

FOR ENTRY NO. 1  
MISSION = 11. CBE= 0.463 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 3 = 0.463

FOR YEAR 1993.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS, THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 11. CBE= 0.463 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 4. CBE= 0.148 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.950

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 13. CBE= 0.581 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.918

FOR YEAR 1993.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS, THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.



FOR ENTRY NO. 2  
MISSION = 11. CBE= 0.463 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 4. CBE= 0.148 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.949

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 13. CBE= 0.581 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.919

FOR YEAR 1993.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS, THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 11. CBE= 0.463 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.970

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.148 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 13. CBE= 0.581 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.898

FOR YEAR 1994.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS, THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

FOR YEAR 1999.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS,THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 8  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 9  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 10  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 11  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 12  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.994

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1

MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 2

MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.C = 1.

TOTAL CBE VALUE FOR FILE 2 = 0.012

FOR TESTSTAND-QUARTER NO. 3

FOR ENTRY NO. 1

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 3 = 0.084

FOR YEAR 2000.\*\*\*\*\*

USING RULE NO. 5 WITH 7 TESTSTANDS, THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 6. CBE= 0.119 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 7. CBE= 0.185 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3

MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7

TO FIND BEST RUN NO. FOR YEAR 1992.-----

PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.

PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.

TO FIND BEST RUN NO. FOR YEAR 1993.-----

PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.

PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	2.

TO FIND BEST RUN NO. FOR YEAR 1994.-----

PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.

PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.

TO FIND BEST RUN NO. FOR YEAR 1995.-----

PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.

PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.

TO FIND BEST RUN NO. FOR YEAR 1996.-----

PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.

PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.

TO FIND BEST RUN NO. FOR YEAR 1997.-----

PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	5.	1.	1.

PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.

TO FIND BEST RUN NO. FOR YEAR 1998.-----

PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	2.	2.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 1999.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 2000.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 2001.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.

S L A M S U M M A R Y R E P O R T

SIMULATION PROJECT NASA3

BY D LINTON

DATE 5/20/1985

RUN NUMBER 1 OF 1

CURRENT TIME 0.7350E+01

STATISTICAL ARRAYS CLEARED AT TIME 0.0000E+00

\*\*FILE STATISTICS\*\*

\*\*\*TABLE NUMBER 1\*\*  
 RUN NUMBER 1

YEAR OF PAYLOAD	MIN # PL XP TO SS	MAX PLXP TO SS	AVG PLXP TO SS
0.1992E+04	0.2000E+01	0.2000E+01	0.2000E+01
0.1993E+04	0.6000E+01	0.6000E+01	0.6000E+01
0.1994E+04	0.5000E+01	0.5000E+01	0.5000E+01
0.1995E+04	0.8000E+01	0.8000E+01	0.8000E+01
0.1996E+04	0.6000E+01	0.6000E+01	0.6000E+01
0.1997E+04	0.9000E+01	0.9000E+01	0.9000E+01
0.1998E+04	0.7000E+01	0.7000E+01	0.7000E+01
0.1999E+04	0.8000E+01	0.8000E+01	0.8000E+01
0.2000E+04	0.6000E+01	0.6000E+01	0.6000E+01
0.2001E+04	0.7000E+01	0.7000E+01	0.7000E+01
MINIMUM	0.2000E+01	0.2000E+01	0.2000E+01
MAXIMUM	0.9000E+01	0.9000E+01	0.9000E+01

\*\*\*PLOT NUMBER 1\*\*  
 RUN NUMBER 1

SCALES OF PLOT

=MIN # PLXP TO	0.000E+00	0.500E+02	0.100E+03
=MAX PLXP TO	0.000E+00	0.500E+02	0.100E+03
=AVG PLXP TO	0.000E+00	0.500E+02	0.100E+03
	0 10 20 30 40 50 60 70 80 90 100	DUPS	
YEAR OF PAYLOAD			
0.1992E+04	+L	+	+ LH LA
0.1993E+04	+ L	+	+ LH LA
0.1994E+04	+ L	+	+ LH LA
0.1995E+04	+ L	+	+ LH LA
0.1996E+04	+ L	+	+ LH LA
0.1997E+04	+ L	+	+ LH LA
0.1998E+04	+ L	+	+ LH LA
0.1999E+04	+ L	+	+ LH LA
0.2000E+04	+ L	+	+ LH LA
0.2001E+04	+ L	+	+ LH LA

\*\*TABLE NUMBER 2\*\*  
 RUN NUMBER 1

YEAR OF PAYLOAD	MIN PLXP	MAX PLXP	AVG PLXP
	FM SS	FM SS	FM SS
0.1992E+04	0.0000E+00	0.0000E+00	0.0000E+00
0.1993E+04	0.5000E+01	0.5000E+01	0.5000E+01
0.1994E+04	0.6000E+01	0.6000E+01	0.6000E+01
0.1995E+04	0.5000E+01	0.5000E+01	0.5000E+01
0.1996E+04	0.5000E+01	0.5000E+01	0.5000E+01
0.1997E+04	0.7000E+01	0.7000E+01	0.7000E+01
0.1998E+04	0.7000E+01	0.7000E+01	0.7000E+01
0.1999E+04	0.7000E+01	0.7000E+01	0.7000E+01
0.2000E+04	0.8000E+01	0.8000E+01	0.8000E+01
0.2001E+04	0.7000E+01	0.7000E+01	0.7000E+01
MINIMUM	0.0000E+00	0.0000E+00	0.0000E+00
MAXIMUM	0.8000E+01	0.8000E+01	0.8000E+01

\*\*PLOT NUMBER 2\*\*  
 RUN NUMBER 1

YEAR OF PAYLOAD	SCALES OF PLOT											
	0	10	20	30	40	50	60	70	80	90	100	DUPS
=MIN PLXP FM 0.000E+00						0.500E+02						0.100E+03
=MAX PLXP FM 0.000E+00						0.500E+02						0.100E+03
=AVG PLXP FM 0.000E+00						0.500E+02						0.100E+03
0.1992E+04	L											+ LH LA
0.1993E+04	+ L											+ LH LA
0.1994E+04	+ L											+ LH LA
0.1995E+04	+ L											+ LH LA
0.1996E+04	+ L											+ LH LA
0.1997E+04	+ L											+ LH LA
0.1998E+04	+ L											+ LH LA
0.1999E+04	+ L											+ LH LA
0.2000E+04	+ L											+ LH LA
0.2001E+04	+ L											+ LH LA
EAR OF PAYLOAD	0	10	20	30	40	50	60	70	80	90	100	DUPS



\*\*TABLE NUMBER 3\*\*  
 RUN NUMBER 1

YEAR OF PAYLOAD	MIN CBE TO SS	MAX CBE TO SS	AVG CBE TO SS
0.1992E+04	0.2810E+00	0.2810E+00	0.2810E+00
0.1993E+04	0.9510E+00	0.9510E+00	0.9510E+00
0.1994E+04	0.4510E+00	0.4510E+00	0.4510E+00
0.1995E+04	0.9490E+00	0.9490E+00	0.9490E+00
0.1996E+04	0.4020E+00	0.4020E+00	0.4020E+00
0.1997E+04	0.2651E+01	0.2651E+01	0.2651E+01
0.1998E+04	0.3685E+00	0.3685E+00	0.3685E+00
0.1999E+04	0.6700E+00	0.6700E+00	0.6700E+00
0.2000E+04	0.4570E+00	0.4570E+00	0.4570E+00
0.2001E+04	0.6140E+00	0.6140E+00	0.6140E+00
MINIMUM	0.2810E+00	0.2810E+00	0.2810E+00
MAXIMUM	0.2651E+01	0.2651E+01	0.2651E+01

\*\*PLOT NUMBER 3\*\*  
 RUN NUMBER 1

YEAR OF PAYLOAD	SCALES OF PLOT											
	0	10	20	30	40	50	60	70	80	90	100	DUPS
=MIN CBE TO S0.000E+00						0.500E+02						0.100E+03
=MAX CBE TO S0.000E+00						0.500E+02						0.100E+03
=AVG CBE TO S0.000E+00						0.500E+02						0.100E+03
0.1992E+04 L						+						+ LH LA
0.1993E+04 L						+						+ LH LA
0.1994E+04 L						+						+ LH LA
0.1995E+04 L						+						+ LH LA
0.1996E+04 L						+						+ LH LA
0.1997E+04 +L						+						+ LH LA
0.1998E+04 L						+						+ LH LA
0.1999E+04 L						+						+ LH LA
0.2000E+04 L						+						+ LH LA
0.2001E+04 L						+						+ LH LA
0	10	20	30	40	50	60	70	80	90	100	DUPS	



\*\*TABLE NUMBER 5\*\*  
 RUN NUMBER 1

YEAR OF PAYLOAD	MIN TQS NEEDED	MAX TQS NEEDED	AVG TQS NEEDED
0.1992E+04	0.1000E+01	0.1000E+01	0.1000E+01
0.1993E+04	0.2000E+01	0.3000E+01	0.2200E+01
0.1994E+04	0.2000E+01	0.2000E+01	0.2000E+01
0.1995E+04	0.3000E+01	0.3000E+01	0.3000E+01
0.1996E+04	0.2000E+01	0.2000E+01	0.2000E+01
0.1997E+04	0.5000E+01	0.5000E+01	0.5000E+01
0.1998E+04	0.2000E+01	0.2000E+01	0.2000E+01
0.1999E+04	0.3000E+01	0.3000E+01	0.3000E+01
0.2000E+04	0.3000E+01	0.3000E+01	0.3000E+01
0.2001E+04	0.3000E+01	0.3000E+01	0.3000E+01
MINIMUM	0.1000E+01	0.1000E+01	0.1000E+01
MAXIMUM	0.5000E+01	0.5000E+01	0.5000E+01

\*\*PLOT NUMBER 5\*\*  
 RUN NUMBER 1

SCALES OF PLOT

L=MIN TQS NEEDED	0	10	20	30	40	50	60	70	80	90	100	DUPS
0.000E+00												
H=MAX TQS NEEDED												
0.000E+00												
A=AVG TQS NEEDED												
0.000E+00												
YEAR OF PAYLOAD												
0.1992E+04	+	L										+ LH LA
0.1993E+04	+		LA	H								+
0.1994E+04	+		L									+ LH LA
0.1995E+04	+			L								+ LH LA
0.1996E+04	+		L									+ LH LA
0.1997E+04	+							L				+ LH LA
0.1998E+04	+		L									+ LH LA
0.1999E+04	+			L								+ LH LA
0.2000E+04	+			L								+ LH LA
0.2001E+04	+			L								+ LH LA
YEAR OF PAYLOAD		10	20	30	40	50	60	70	80	90	100	DUPS

APPENDIX D

Complete TSU model output using rule 7



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1 GEN,D LINTON,NASA3,05/20/85,1,,,,,72;
2 LIM,32,10,400;
3 PRI/30,LVF(2)/31,LVF(5);
4 ;
5 RECORD(1),SS(20),YEAR OF PAYLOAD,11,B,1,,,NO;
6 VAR,SS(21),L,MIN # PLXP TO SS,0,100; PUMIN
7 VAR,SS(22),H,MAX PLXP TO SS,0,100;X;PUMAX
8 VAR,SS(23),A,AVG PLXP TO SS,0,100;X;PUAVG
9 RECORD(2),SS(20),YEAR OF PAYLOAD,12,B,1,,,NO;
10 VAR,SS(24),L,MIN PLXP FM SS,0,100;X; PDMIN
11 VAR,SS(25),H,MAX PLXP FM SS,0,100;X; PDMAX
12 VAR,SS(26),A,AVG PLXP FM SS,0,100;X; PDAVG
13 RECORD(3),SS(20),YEAR OF PAYLOAD,13,B,1,,,NO;
14 VAR,SS(27),L,MIN CBE TO SS,0,100;X; CUMIN
15 VAR,SS(28),H,MAX CBE TO SS,0,100;X; CUMAX
16 VAR,SS(29),A,AVG CBE TO SS,0,100;X; CUAVG
17 RECORD(4),SS(20),YEAR OF PAYLOAD,14,B,1,,,NO;
18 VAR,SS(30),L,MIN CBE FM SS,0,10; CDMIN
19 VAR,SS(31),H,MAX CBE FM SS,0,10; CDMAX
20 VAR,SS(32),A,AVG CBE FM SS,0,10; CDAVG
21 RECORD(5),SS(20),YEAR OF PAYLOAD,15,B,1,,,NO;
22 VAR,SS(33),L,MIN TQS NEEDED,0,10; TQSMIN
23 VAR,SS(34),H,MAX TQS NEEDED,0,10; TQSMAX
24 VAR,SS(35),A,AVG TQS NEEDED,0,10; TQSAVG
25 ;
26 ;1 ENTITY=1 PAYLOAD TRANSPORT
27 ;II=INDEX ASSOCIATED WITH ANY TESTSTAND QUARTER(TQ)
28 ;FILE II=HOLDS ALL ENTITIES ASSOC. WITH ONE TQ,1<=II<=28
29 ;FILE 29=OVERFLOW IF XX(35)= 7
30 ;FILE 30=ALL ENTITIES FOR ALL YEARS AT NODE ALLP
31 ;FILE 31=INPUT FILE FOR PAYLOAD TRANSPORTS AT NODE PYLD
32 ;FILE 32=DUPLICATED INPUT FILE, A GATE
33 ;
34 ;XX(II)=TOTAL AMOUNT OF CBE CURRENTLY IN TQ II,1<=II<=28
35 ;XX(31)=I, IF RULE NO. I,1<=I<=8,SET BY USER IN INTLC,IS IN EFFECT
36 ;XX(32)=TOTAL NO. OF RUNS DESIRED,SET BY USER IN INTLC
37 ;XX(33)=CURRENT NUMBER OF RUNS COMPLETED NOW(XX(33)=0 IN INTLC)
38 ;XX(34)=TOTAL NO. ENTITIES IN FILE 30(NOT COUNTING A1=0 ENTITIES)
39 ;XX(35)=TOTAL NO. OF TESTSTANDS BEING MODELED(1<=XX(35)<=7)
40 ;XX(36)=CURRENT YEAR BEING PROCESSED(SET TO XX(37) IN INTLC)
41 ;XX(37)=FIRST YEAR IN THE SEQUENCE
42 ;XX(38)=LAST YEAR IN SEQUENCE
43 ;ATTRIB(1)=MISSION #(A1=0,A5=1000 FOR LAST ENTITY)
44 ; (2)=YEAR OF PAYLOAD
45 ; (3)=NOT USED
46 ; (4)=CBE VALUE
47 ; (5)=RANDOM NO. FOR SHUFFLING INPUT DATA FOR SUCCESSIVE RUNS
48 ; (6)=FILE NUMBER FOR FILING ENTITIES INTO APPROPRIATE TQ
49 ; (7)=0,DOWNFLOW;1,LAUNCH
50 ; (8)=0,NONHAZARDOUS;1,HAZARDOUS
51 ; (9)=0,LOW INCLINATION ORBIT;1,POLAR ORBIT
52 ; (10)=1,IF ENTITY AT NODE SA10 SATISFIES RULE ASSOCIATED
53 ; WITH XX(31),SS(II), FOR FILING AT II
54 ; =0,IF ENTITY DOES NOT SATISFY RULE FOR FILE II AT NODE SA10
55 ;SS(II)=1,2,...,8, DEPENDING UPON VALUE OF XX(31) AND ATRIBS 7,8,9
56 ; FOR FILE II (SET AT NODE STSS)
57 ;
58 ;RULE 1 = SEGREGATE ON A7,A8,A9 RULE 5=SEGREGATE ON A9 ONLY
59 ;RULE 2 = ON A8,A9 RULE 6= ON A8 ONLY
60 ;RULE 3 = ON A7, A9 RULE 7= ON A7 ONLY

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61 ;RULE 4 =          ON A7,A8          RULE 8= NO SEGREGATION
62 ;
63 ;
64 INTLC,XX(31)=7,XX(32)=5,XX(33)=0,XX(34)=8,XX(35)=7;
65 INTLC,XX(36)=1992,XX(37)=1992,XX(38)=2001;
66 NETWORK;
67     RES/PYLDXPRT(0),31; FOR PAYLOAD XPRTS FOR YEAR IN PROCESS
68     RES/ALLPYLDS(1),30; FOR ALL PYLD XPRTS FOR ALL YEARS
69     GAT/DUPGATE,CLOSED,32;
70     RES/TQ1(0),1;
71     RES/TQ2(0),2;
72     RES/TQ3(0),3;
73     RES/TQ4(0),4;
74     RES/TQ5(0),5;
75     RES/TQ6(0),6;
76     RES/TQ7(0),7;
77     RES/TQ8(0),8;
78     RES/TQ9(0),9;
79     RES/TQ10(0),10;
80     RES/TQ11(0),11;
81     RES/TQ12(0),12;
82     RES/TQ13(0),13;
83     RES/TQ14(0),14;
84     RES/TQ15(0),15;
85     RES/TQ16(0),16;
86     RES/TQ17(0),17;
87     RES/TQ18(0),18;
88     RES/TQ19(0),19;
89     RES/TQ20(0),20;
90     RES/TQ21(0),21;
91     RES/TQ22(0),22;
92     RES/TQ23(0),23;
93     RES/TQ24(0),24;
94     RES/TQ25(0),25;
95     RES/TQ26(0),26;
96     RES/TQ27(0),27;
97     RES/TQ28(0),28;
98     RES/MORETSDS(0),29;
99 ALLP  AWAIT(30),ALLPYLDS/1,2; M=2
100     ACT,,XX(36).GE.ATRIB(2),PYLD;
101     ACT,,XX(36).GE.ATRIB(2),NXTY;
102     ACT,,ALLP;
103     ACT,.01,,NEXT;
104 NXTY  FREE,ALLPYLDS/1;
105 T1    TERM;
106 ;
107 PYLD  AWAIT(31),PYLDXPRT/1,2; M=2
108     ACT,,ATRIB(1).EQ.0.,DUPG;LAST ENTITY 4 ALL RUNS HAS A1,A5 SET
109     ACT,,ATRIB(1).GT.0,II0;
110     ACT,,ATRIB(1).EQ.0,PRNT;
111     ACT,,ARAN;
112 ARAN  ASS,ATRIB(5)=DRAND;
113 DUPG  AWAIT(32),DUPGATE;
114     ACT,,PYLD;
115 PRNT  EVENT,3,1;JEVNT=3,PRINT OUT FILES,XX(33)=XX(33)+1
116     ACT,,XX(33).GE.XX(32),ENDY;
117     ACT,.01,,OPND;DELAY OPENING SO ZERO TIME ACTIVS COMPLETED
118 OPND  OPEN,DUPGATE;
119     ACT,.01;
120     CLOSE,DUPGATE;
121     ACT,.01,,NEXT;

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122 ENDY    ASS,XX(36)=XX(36)+1,XX(33)=0,1;
123        ACT,,XX(36).GT.XX(38),END;IF DONE,TERMINATE
124        ACT,,NXTY;DO NEXT YEARS ENTITIES
125 END     TERM,1; END LAST RUN OF LAST YEAR
126 IIO     ASS,II=0;
127 GO      GOON;
128 IIP1    ASS,II=II+1,1;
129 G1      GOON,1; M=1
130        ACT,,II.GT.4*XX(35),MORE; XX(35)=NO. TESTSTANDS MODELED
131        ACT,,XX(II)+ATRIB(4).LE.1.,G2;
132        ACT,,G0;
133 MORE    ASS,ATRIB(6)=4*XX(35)+1;
134        ACT,,G3;
135 G2      GOON,1;
136        ACT,,NNQ(II).GT.0,SA10;
137        ACT,,NNQ(II).EQ.0,A1;
138 SA10    EVENT,2,1; JEVNT=2, SET ATRIB(10)
139        ACT,,ATRIB(10).EQ.1,A1; ENTITY MATCHES RULE FOR II
140        ACT,,ATRIB(10).EQ.0,G0; ENTITY DOESNT MATCH RULE AT FILE II
141 A1      ASS,XX(II)=XX(II)+ATRIB(4),ATRIB(6)=II,1;
142        ACT,,ATRIB(10).EQ.0,STSS;
143        ACT,,ATRIB(10).EQ.1,G3;
144 STSS    EVENT,1,1; JEVNT=1,SET SS(II) BASED ON XX(31) RULE NUMBER
145        ACT,,G3;
146 G3      GOON,2;
147        ACT,.01,,NEXT;
148        ACT,,TSDS;
149 NEXT    FREE,PYLDXPRT/1,1;
150        TERM;
151 TSDS    AWAIT(ATRIB(6)=1,29),ATRIB(6)/1;
152        TERM;
153        ENDNETWORK;
154 INIT,0.,20.;
155 ;ONTR,TRACE,1.5,3.,2,5,-33,-36,-37,-38;
156 ;NT/30,1,1993,0.,24,1,0,0,0,0; A7=A8=A9=0
157 ;NT/30,2,1993,0.,24,5,0,0,0,1; A7=A8=0,A9=1
158 ;NT/30,3,1993,0.,60,3,0,0,1,0; A7=A9=0,A8=1
159 ;NT/30,4,1993,0.,36,2,0,1,0,0; A7=1,A8=A9=0
160 ;NT/30,5,1993,0.,50,4,0,0,1,1; A7=0,A8=A9=1
161 ;NT/30,6,1993,0.,50,6,0,1,0,1; A7=A9=1,A8=0
162 ;NT/30,7,1993,0.,24,7,0,1,1,0; A7=A8=1,A9=0
163 ;NT/30,8,1993,0.,18,8,0,1,1,1; A7=A8=A9=1
164 ;NT/30,0,1993,0,0,1000.; LAST ENTRY IN FILE 30
165 ;NT/30,1,1994,0.,72,1,0,0,0,0;1ST ENTRY OF 1994
166 ;NT/30,2,1994,0.,52,2,0,0,0,1;
167 ;NT/30,3,1994,0.,52,3,0,0,1,0;
168 ;NT/30,4,1994,0.,47,4,0,1,0,0;
169 ;NT/30,5,1994,0.,47,5,0,0,1,1;
170 ;NT/30,6,1994,0.,27,6,0,1,0,1;
171 ;NT/30,7,1994,0.,27,7,0,1,1,0;
172 ;NT/30,8,1994,0.,27,8,0,1,1,1;
173 ;NT/30,9,1994,0.,27,9,0,1,1,1;
174 ;NT/30,0,1994,0,0,1000; LAST 1994 ENTRY
175 ;NT/30,0,1995,0,0,1000;ONLY 1995 ENTRY
176 ; NASA DATA MAY 1985, FOR YEARS 1992 TO 2001
177 ENT/30,0,1992,0,0,1000; DUMMY ENTRIES FOR FOR1 1992 TO 2002
178 ENT/30,0,1993,0,0,1000;
179 ENT/30,0,1994,0,0,1000;
180 ENT/30,0,1995,0,0,1000;
181 ENT/30,0,1996,0,0,1000;
182 ENT/30,0,1997,0,0,1000;

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183 ENT/30,0,1998,0,0,1000;  
184 ENT/30,0,1999,0,0,1000;  
185 ENT/30,0,2000,0,0,1000;  
186 ENT/30,0,2001,0,0,1000;  
187 ENT/30,0,2002,0,0,1000; LAST DUMMY ENTRY FOR LAST YEAR + (1)  
188 ; BEGINNING OF ACTUAL DATA FOR 1992 TO 2001  
189 ENT/30,1,1992,0,.114,0,0,1,0,0; ASSUME A5=DRAND # =0 FOR INITIAL DATA  
190 ENT/30,1,1994,0,.114,0,0,0,0,0;  
191 ENT/30,4,1993,0,.148,0,0,1,0,0;  
192 ENT/30,4,1995,0,.194,0,0,1,0,0;  
193 ENT/30,4,1995,0,.074,0,0,0,0,0;  
194 ENT/30,4,1997,0,.194,0,0,1,0,0;  
195 ENT/30,4,1997,0,.074,0,0,0,0,0;  
196 ENT/30,4,1999,0,.194,0,0,1,0,0;  
197 ENT/30,4,1999,0,.074,0,0,0,0,0;  
198 ENT/30,4,2001,0,.194,0,0,1,0,0;  
199 ENT/30,4,2001,0,.074,0,0,0,0,0;  
200 ENT/30,6,1995,0,.119,0,0,1,0,0;  
201 ENT/30,6,1998,0,.0185,0,0,1,0,0;  
202 ENT/30,6,1998,0,.0185,0,0,0,0,0;  
203 ENT/30,6,2000,0,.119,0,0,0,0,0;  
204 ENT/30,7,1995,0,.185,0,0,1,0,0;  
205 ENT/30,7,1998,0,.004,0,0,1,0,0;  
206 ENT/30,7,1998,0,.004,0,0,0,0,0;  
207 ENT/30,7,2000,0,.185,0,0,0,0,0;  
208 ENT/30,8,1995,0,.111,0,0,1,0,1; POLAR FOR MISSION 8  
209 ENT/30,8,1996,0,.006,0,0,1,0,1;  
210 ENT/30,8,1996,0,.006,0,0,0,0,1;  
211 ENT/30,8,1997,0,.006,0,0,1,0,1;  
212 ENT/30,8,1997,0,.006,0,0,0,0,1;  
213 ENT/30,8,1998,0,.006,0,0,1,0,1;  
214 ENT/30,8,1998,0,.006,0,0,0,0,1;  
215 ENT/30,8,1999,0,.006,0,0,1,0,1;  
216 ENT/30,8,1999,0,.006,0,0,0,0,1;  
217 ENT/30,8,2000,0,.006,0,0,1,0,1;  
218 ENT/30,8,2000,0,.006,0,0,0,0,1;  
219 ENT/30,8,2001,0,.006,0,0,1,0,1;  
220 ENT/30,8,2001,0,.006,0,0,0,0,1;  
221 ;  
222 ;  
223 ;FROM MISSION 11 (2ND PAGE OF DATA)  
224 ENT/30,11,1993,0,.463,0,0,1,0,0;  
225 ENT/30,11,1996,0,.056,0,0,1,0,0;  
226 ENT/30,11,1999,0,.056,0,0,1,0,0;  
227 ENT/30,13,1993,0,.581,0,0,0,0,0;  
228 ENT/30,16,1994,0,.111,0,0,1,0,0;  
229 ENT/30,16,1994,0,.111,0,0,0,0,0;  
230 ENT/30,16,1997,0,.111,0,0,1,0,0;  
231 ENT/30,16,1997,0,.111,0,0,0,0,0;  
232 ENT/30,16,2000,0,.111,0,0,1,0,0;  
233 ENT/30,16,2000,0,.111,0,0,0,0,0;  
234 ENT/30,20,1997,0,1.,0,0,1,0,0; CBE=1  
235 ENT/30,20,1997,0,1.,0,0,1,0,0; CBE=1  
236 ENT/30,20,1999,0,.074,0,0,1,0,0;  
237 ENT/30,20,1999,0,.004,0,0,0,0,0;  
238 ;  
239 ENT/30,20,2001,0,.074,0,0,1,0,0;  
240 ENT/30,20,2001,0,.004,0,0,0,0,0;  
241 ENT/30,22,1992,0,.167,0,0,1,0,0;  
242 ENT/30,22,1993,0,.085,0,0,1,0,0;  
243 ENT/30,22,1993,0,.085,0,0,1,0,0;

244 ENT/30,22,1993,0,.085,0,0,1,0,0;  
245 ENT/30,22,1993,0,.085,0,0,1,0,0;  
246 ENT/30,22,1993,0,.084,0,0,0,0,0;  
247 ENT/30,22,1993,0,.084,0,0,0,0,0;  
248 ENT/30,22,1993,0,.084,0,0,0,0,0;  
249 ENT/30,22,1993,0,.084,0,0,0,0,0;  
250 ENT/30,22,1994,0,.085,0,0,1,0,0;  
251 ENT/30,22,1994,0,.085,0,0,1,0,0;  
252 ENT/30,22,1994,0,.085,0,0,1,0,0;  
253 ENT/30,22,1994,0,.085,0,0,1,0,0;  
254 ENT/30,22,1994,0,.084,0,0,0,0,0;  
255 ENT/30,22,1994,0,.084,0,0,0,0,0;  
256 ENT/30,22,1994,0,.084,0,0,0,0,0;  
257 ENT/30,22,1994,0,.084,0,0,0,0,0;  
258 ENT/30,22,1995,0,.085,0,0,1,0,0;  
259 ENT/30,22,1995,0,.085,0,0,1,0,0;  
260 ENT/30,22,1995,0,.085,0,0,1,0,0;  
261 ENT/30,22,1995,0,.085,0,0,1,0,0;  
262 ENT/30,22,1995,0,.084,0,0,0,0,0;  
263 ENT/30,22,1995,0,.084,0,0,0,0,0;  
264 ENT/30,22,1995,0,.084,0,0,0,0,0;  
265 ENT/30,22,1995,0,.084,0,0,0,0,0;  
266 ENT/30,22,1996,0,.085,0,0,1,0,0;  
267 ENT/30,22,1996,0,.085,0,0,1,0,0;  
268 ENT/30,22,1996,0,.085,0,0,1,0,0;  
269 ENT/30,22,1996,0,.085,0,0,1,0,0;  
270 ENT/30,22,1996,0,.084,0,0,0,0,0;  
271 ENT/30,22,1996,0,.084,0,0,0,0,0;  
272 ENT/30,22,1996,0,.084,0,0,0,0,0;  
273 ENT/30,22,1996,0,.084,0,0,0,0,0;  
274 ENT/30,22,1997,0,.085,0,0,1,0,0;  
275 ENT/30,22,1997,0,.085,0,0,1,0,0;  
276 ENT/30,22,1997,0,.085,0,0,1,0,0;  
277 ENT/30,22,1997,0,.085,0,0,1,0,0;  
278 ENT/30,22,1997,0,.084,0,0,0,0,0;  
279 ENT/30,22,1997,0,.084,0,0,0,0,0;  
280 ENT/30,22,1997,0,.084,0,0,0,0,0;  
281 ENT/30,22,1997,0,.084,0,0,0,0,0;  
282 ENT/30,22,1998,0,.085,0,0,1,0,0;  
283 ENT/30,22,1998,0,.085,0,0,1,0,0;  
284 ENT/30,22,1998,0,.085,0,0,1,0,0;  
285 ENT/30,22,1998,0,.085,0,0,1,0,0;  
286 ENT/30,22,1998,0,.084,0,0,0,0,0;  
287 ENT/30,22,1998,0,.084,0,0,0,0,0;  
288 ENT/30,22,1998,0,.084,0,0,0,0,0;  
289 ENT/30,22,1998,0,.084,0,0,0,0,0;  
290 ENT/30,22,1999,0,.085,0,0,1,0,0;  
291 ENT/30,22,1999,0,.085,0,0,1,0,0;  
292 ENT/30,22,1999,0,.085,0,0,1,0,0;  
293 ENT/30,22,1999,0,.085,0,0,1,0,0;  
294 ENT/30,22,1999,0,.084,0,0,0,0,0;  
295 ENT/30,22,1999,0,.084,0,0,0,0,0;  
296 ENT/30,22,1999,0,.084,0,0,0,0,0;  
297 ENT/30,22,1999,0,.084,0,0,0,0,0;  
298 ENT/30,22,2000,0,.085,0,0,1,0,0;  
299 ENT/30,22,2000,0,.085,0,0,1,0,0;  
300 ENT/30,22,2000,0,.085,0,0,1,0,0;  
301 ENT/30,22,2000,0,.085,0,0,1,0,0;  
302 ENT/30,22,2000,0,.084,0,0,0,0,0;  
303 ENT/30,22,2000,0,.084,0,0,0,0,0;  
304 ENT/30,22,2000,0,.084,0,0,0,0,0;

305 ENT/30,22,2000,0,.084,0,0,0,0,0;  
306 ENT/30,22,2001,0,.085,0,0,1,0,0;  
307 ENT/30,22,2001,0,.085,0,0,1,0,0;  
308 ENT/30,22,2001,0,.085,0,0,1,0,0;  
309 ENT/30,22,2001,0,.085,0,0,1,0,0;  
310 ENT/30,22,2001,0,.084,0,0,0,0,0;  
311 ENT/30,22,2001,0,.084,0,0,0,0,0;  
312 ENT/30,22,2001,0,.084,0,0,0,0,0;  
313 ENT/30,22,2001,0,.084,0,0,0,0,0;  
314 ; END OF DATA FOR MISSIONS SAAX 1,4,6,7,8,11,13,16,20,22  
315 ; SOME MISSIONS WERE SKIPPED DUE TO UNCLEAR, INCORRECT OR INSUFF. DATA  
316 FIN;

SLAM ECHO REPORT

SIMULATION PROJECT NASA3

BY D LINTON

DATE 5/20/1985

RUN NUMBER 1 OF 1

SLAM VERSION JUN 84

GENERAL OPTIONS

PRINT INPUT STATEMENTS (ILIST):	YES
PRINT ECHO REPORT (IECHO):	YES
EXECUTE SIMULATIONS (IXQT):	YES
WARN OF DESTROYED ENTITIES:	NO
PRINT INTERMEDIATE RESULTS HEADING (IPIRH):	YES
PRINT SUMMARY REPORT (ISMRY):	YES

LIMITS ON FILES

MAXIMUM NUMBER OF USER FILES (MFILS):	32
MAXIMUM NUMBER OF USER ATTRIBUTES (MATR):	10
MAXIMUM NUMBER OF CONCURRENT ENTRIES (MNTY):	400

FILE SUMMARY

FILE NUMBER	INITIAL ENTRIES	RANKING CRITERION
1	0	FIFO
2	0	FIFO
3	0	FIFO
4	0	FIFO
5	0	FIFO
6	0	FIFO
7	0	FIFO
8	0	FIFO
9	0	FIFO
10	0	FIFO
11	0	FIFO
12	0	FIFO
13	0	FIFO
14	0	FIFO
15	0	FIFO
16	0	FIFO
17	0	FIFO
18	0	FIFO
19	0	FIFO
20	0	FIFO
21	0	FIFO
22	0	FIFO
23	0	FIFO
24	0	FIFO
25	0	FIFO
26	0	FIFO
27	0	FIFO

28	0	FIFO
29	0	FIFO
30	0	LVF ( 2)
31	0	LVF ( 5)
32	0	FIFO

CONTINUOUS VARIABLES

NUMBER OF DD EQUATIONS (NNEQD):	0
NUMBER OF SS EQUATIONS (NNEQS):	0
MINIMUM STEP SIZE (DTMIN):	0.1000E+19
MAXIMUM STEP SIZE (DTMAX):	0.1000E+21
TIME BETWEEN SAVE POINTS (DTSAV):	0.1000E+01
ACCURACY ERROR SPECIFICATION (LLERR):	WARNING
ABSOLUTE ERROR LIMIT (AAERR):	0.1000E-04
RELATIVE ERROR LIMIT (RRERR):	0.1000E-04

RECORDING OF PLOTS/TABLES

PLOT/TABLE NUMBER 1

INDEPENDENT VARIABLE:	SS( 20)
IDENTIFIER:	YEAR OF PAYLOAD
DATA STORAGE UNIT:	TAPE/DISC 11
DATA OUTPUT FORMAT:	PLOT AND TABLE
TIME BETWEEN PLOT POINTS (DTPLT):	0.1000E+01
STARTING TIME OF PLOT (TTSRT):	0.0000E+00
ENDING TIME OF PLOT (TTEND):	0.2000E+02
DATA POINTS AT EVENTS (KKEVT):	NO

DEPENDENT VARIABLES

VARIABLE SYM	IDENTIFIER	LOW ORD VALUE	HIGH ORD VALUE
SS( 21)	L MIN # PLXP TO SS	VALUE IS 0.0E+00	VALUE IS 0.1E+03
SS( 22)	H MAX PLXP TO SS	VALUE IS 0.0E+00	VALUE IS 0.1E+03
SS( 23)	A AVG PLXP TO SS	VALUE IS 0.0E+00	VALUE IS 0.1E+03

PLOT/TABLE NUMBER 2

INDEPENDENT VARIABLE:	SS( 20)
IDENTIFIER:	YEAR OF PAYLOAD
DATA STORAGE UNIT:	TAPE/DISC 12
DATA OUTPUT FORMAT:	PLOT AND TABLE
TIME BETWEEN PLOT POINTS (DTPLT):	0.1000E+01
STARTING TIME OF PLOT (TTSRT):	0.0000E+00
ENDING TIME OF PLOT (TTEND):	0.2000E+02
DATA POINTS AT EVENTS (KKEVT):	NO

DEPENDENT VARIABLES

VARIABLE SYM	IDENTIFIER	LOW ORD VALUE	HIGH ORD VALUE
SS( 24)	L MIN PLXP FM SS	VALUE IS 0.0E+00	VALUE IS 0.1E+03
SS( 25)	H MAX PLXP FM SS	VALUE IS 0.0E+00	VALUE IS 0.1E+03
SS( 26)	A AVG PLXP FM SS	VALUE IS 0.0E+00	VALUE IS 0.1E+03

PLOT/TABLE NUMBER 3

INDEPENDENT VARIABLE: SS( 20)  
 IDENTIFIER: YEAR OF PAYLOAD  
 DATA STORAGE UNIT: TAPE/DISC 13  
 DATA OUTPUT FORMAT: PLOT AND TABLE  
 TIME BETWEEN PLOT POINTS (DTPLT): 0.1000E+01  
 STARTING TIME OF PLOT (TTSRT): 0.0000E+00  
 ENDING TIME OF PLOT (TTEND): 0.2000E+02  
 DATA POINTS AT EVENTS (KKEVT): NO

DEPENDENT VARIABLES

VARIABLE	SYM	IDENTIFIER	LOW ORD VALUE	HIGH ORD VALUE
SS( 27)	L	MIN CBE TO SS	VALUE IS 0.0E+00	VALUE IS 0.1E+03
SS( 28)	H	MAX CBE TO SS	VALUE IS 0.0E+00	VALUE IS 0.1E+03
SS( 29)	A	AVG CBE TO SS	VALUE IS 0.0E+00	VALUE IS 0.1E+03

PLOT/TABLE NUMBER 4

INDEPENDENT VARIABLE: SS( 20)  
 IDENTIFIER: YEAR OF PAYLOAD  
 DATA STORAGE UNIT: TAPE/DISC 14  
 DATA OUTPUT FORMAT: PLOT AND TABLE  
 TIME BETWEEN PLOT POINTS (DTPLT): 0.1000E+01  
 STARTING TIME OF PLOT (TTSRT): 0.0000E+00  
 ENDING TIME OF PLOT (TTEND): 0.2000E+02  
 DATA POINTS AT EVENTS (KKEVT): NO

DEPENDENT VARIABLES

VARIABLE	SYM	IDENTIFIER	LOW ORD VALUE	HIGH ORD VALUE
SS( 30)	L	MIN CBE FM SS	VALUE IS 0.0E+00	VALUE IS 0.1E+02
SS( 31)	H	MAX CBE FM SS	VALUE IS 0.0E+00	VALUE IS 0.1E+02
SS( 32)	A	AVG CBE FM SS	VALUE IS 0.0E+00	VALUE IS 0.1E+02

PLOT/TABLE NUMBER 5

INDEPENDENT VARIABLE: SS( 20)  
 IDENTIFIER: YEAR OF PAYLOAD  
 DATA STORAGE UNIT: TAPE/DISC 15  
 DATA OUTPUT FORMAT: PLOT AND TABLE  
 TIME BETWEEN PLOT POINTS (DTPLT): 0.1000E+01  
 STARTING TIME OF PLOT (TTSRT): 0.0000E+00  
 ENDING TIME OF PLOT (TTEND): 0.2000E+02  
 DATA POINTS AT EVENTS (KKEVT): NO

DEPENDENT VARIABLES

VARIABLE	SYM	IDENTIFIER	LOW ORD VALUE	HIGH ORD VALUE
SS( 33)	L	MIN TQS NEEDED	VALUE IS 0.0E+00	VALUE IS 0.1E+02
SS( 34)	H	MAX TQS NEEDED	VALUE IS 0.0E+00	VALUE IS 0.1E+02
SS( 35)	A	AVG TQS NEEDED	VALUE IS 0.0E+00	VALUE IS 0.1E+02

RANDOM NUMBER STREAMS

STREAM NUMBER	SEED VALUE	REINITIALIZATION OF STREAM

1	428956419	NO
2	1954324947	NO
3	1145661099	NO
4	1835732737	NO
5	794161987	NO
6	1329531353	NO
7	200496737	NO
8	633816299	NO
9	1410143363	NO
10	1282538739	NO

INITIALIZATION OPTIONS

BEGINNING TIME OF SIMULATION (TTBEG):	0.0000E+00
ENDING TIME OF SIMULATION (TTFIN):	0.2000E+02
STATISTICAL ARRAYS CLEARED (JJCLR):	YES
VARIABLES INITIALIZED (JJVAR):	YES
FILES INITIALIZED (JJFIL):	YES

NSET/QSET STORAGE ALLOCATION

DIMENSION OF NSET/QSET (NNSET):	100000
WORDS ALLOCATED TO FILING SYSTEM:	5600
WORDS ALLOCATED TO INDEXED LIST TAGS:	390
WORDS ALLOCATED TO NETWORK:	961
WORDS AVAILABLE FOR PLOTS/TABLES:	93049

INPUT ERRORS DETECTED: 0

EXECUTION WILL BE ATTEMPTED

\*\*INTERMEDIATE RESULTS\*\*

FOR YEAR 1992.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 1. CBE= 0.114 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.167 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.281

FOR YEAR 1992.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 1. CBE= 0.114 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.167 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.281

FOR YEAR 1992.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 1. CBE= 0.114 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.167 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.281

FOR YEAR 1992.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 22. CBE= 0.167 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 1. CBE= 0.114 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.281

FOR YEAR 1992.\*\*\*\*\*



USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.167 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 1. CBE= 0.114 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.281

FOR YEAR 1993.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.148 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 11. CBE= 0.463 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.951

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 13. CBE= 0.581 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.917

FOR YEAR 1993.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 4. CBE= 0.148 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 11. CBE= 0.463 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.951

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 13. CBE= 0.581 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.917

FOR YEAR 1993.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 13. CBE= 0.581 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.917

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 11. CBE= 0.463 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 4. CBE= 0.148 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.951

FOR YEAR 1993.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 13. CBE= 0.581 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.917

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 11. CBE= 0.463 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 4. CBE= 0.148 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.951

FOR YEAR 1993.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 11. CBE= 0.463 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 4. CBE= 0.148 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.951

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 13. CBE= 0.581 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.917

FOR YEAR 1994.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 1. CBE= 0.114 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.561

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.451

FOR YEAR 1994.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6

MISSION = 1. CBE= 0.114 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.561

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.451

FOR YEAR 1994.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.451

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 1. CBE= 0.114 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6

MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.561

FOR YEAR 1994.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 16. CBE= 0.111 U.1,D.0 = 1 H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.451

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1

MISSION = 1. CBE= 0.114 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.561

FOR YEAR 1994.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 1. CBE= 0.114 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.561

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.451

FOR YEAR 1995.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 6. CBE= 0.119 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 7. CBE= 0.185 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 8. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7



MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 8

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.949

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1

MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.410

FOR YEAR 1995.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 8. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 6. CBE= 0.119 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6

MISSION = 7. CBE= 0.185 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 8

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.949

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1

MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.410

FOR YEAR 1995.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.410

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 7. CBE= 0.185 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 8. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 8  
MISSION = 6. CBE= 0.119 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.949

FOR YEAR 1995.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 7. CBE= 0.185 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 8. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 6  
MISSION = 6. CBE= 0.119 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1 H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 8  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.949

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.410

FOR YEAR 1995.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 5 OF 5

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.402

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.342

FOR YEAR 1996.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.402

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.402

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.342

FOR YEAR 1996.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.402

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.342

FOR YEAR 1996.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.402

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.342

FOR YEAR 1996.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.402

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.342

FOR YEAR 1996.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.402

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.342

FOR YEAR 1997.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.651

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.



FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 3  
MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.527

FOR TESTSTAND-QUARTER NO. 3

FOR ENTRY NO. 1  
MISSION = 20. CBE= 1.000 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 3 = 1.000

FOR TESTSTAND-QUARTER NO. 4

FOR ENTRY NO. 1  
MISSION = 20. CBE= 1.000 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 4 = 1.000

FOR YEAR 1997.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 6  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.651

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1

MISSION = 20. CBE= 1.000 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 1.000

FOR TESTSTAND-QUARTER NO. 3

FOR ENTRY NO. 1

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3

MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6

MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7

MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

TOTAL CBE VALUE FOR FILE 3 = 0.527

FOR TESTSTAND-QUARTER NO. 4

FOR ENTRY NO. 1

MISSION = 20. CBE= 1.000 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 4 = 1.000

FOR YEAR 1997.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3

MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.527

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 4  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.651

FOR TESTSTAND-QUARTER NO. 3

FOR ENTRY NO. 1  
MISSION = 20. CBE= 1.000 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 3 = 1.000

FOR TESTSTAND-QUARTER NO. 4

FOR ENTRY NO. 1  
MISSION = 20. CBE= 1.000 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 4 = 1.000

FOR YEAR 1997.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
TOTAL CBE VALUE FOR FILE 1 = 0.651

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 20. CBE= 1.000 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 1.000

FOR TESTSTAND-QUARTER NO. 3

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22 CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 3 = 0.527

FOR TESTSTAND-QUARTER NO. 4

FOR ENTRY NO. 1  
MISSION = 20. CBE= 1.000 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 4 = 1.000

FOR YEAR 1997.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 20. CBE= 1.000 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 1.000

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.527

FOR TESTSTAND-QUARTER NO. 3

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 3 = 0.651

FOR TESTSTAND-QUARTER NO. 4

FOR ENTRY NO. 1  
MISSION = 20. CBE= 1.000 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 4 = 1.000

FOR YEAR 1998.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 6. CBE= 0.018 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 7. CBE= 0.004 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.368

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 6. CBE= 0.018 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 7. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.364

FOR YEAR 1998.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 7. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 6. CBE= 0.018 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.364

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 6. CBE= 0.018 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 7. CBE= 0.004 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.368

FOR YEAR 1998.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 7. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 6. CBE= 0.018 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.364

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 6. CBE= 0.018 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 7. CBE= 0.004 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.368

FOR YEAR 1998.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 7. CBE= 0.004 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5



MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 6. CBE= 0.018 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.368

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 7. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 6. CBE= 0.018 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.  
TOTAL CBE VALUE FOR FILE 2 = 0.364

FOR YEAR 1998.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 7. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 6. CBE= 0.018 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.364

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 7. CBE= 0.004 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 6. CBE= 0.018 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.368

FOR YEAR 1999.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 8  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.670

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.420

FOR YEAR 1999.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.420

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 8  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
TOTAL CBE VALUE FOR FILE 2 = 0.670

FOR YEAR 1999.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 8  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.670

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3

MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 4  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.420

FOR YEAR 1999.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 6  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.420

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 8  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.670

FOR YEAR 1999.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 11. CBE= 0.056 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 8  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.670

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 5  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.420

FOR YEAR 2000.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 6. CBE= 0.119 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 7. CBE= 0.185 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 4  
MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 8  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.757

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 2  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.457

FOR YEAR 2000.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1

MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6

MISSION = 7. CBE= 0.185 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 8

MISSION = 6. CBE= 0.119 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.757

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1

MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 2

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5

MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6

MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.457

FOR YEAR 2000.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1



FOR ENTRY NO. 1  
MISSION = 7. CBE= 0.185 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 6. CBE= 0.119 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 8  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.757

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.457

FOR YEAR 2000.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3

C-2

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 6. CBE= 0.119 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 7. CBE= 0.185 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 8  
MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.757

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.457

FOR YEAR 2000.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 2  
MISSION = 16. CBE= 0.111 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.457

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 6. CBE= 0.119 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 7. CBE= 0.185 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 8  
MISSION = 16. CBE= 0.111 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.757

FOR YEAR 2001.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 1 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.614

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 3  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.420

FOR YEAR 2001.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 2 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.420

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 2 = 0.614

FOR YEAR 2001.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 3 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

TOTAL CBE VALUE FOR FILE 1 = 0.614

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4

MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.420

FOR YEAR 2001.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS, THIS IS RUN 4 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 1 = 0.420

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 2  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.  
FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 5  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.614

FOR YEAR 2001.\*\*\*\*\*

USING RULE NO. 7 WITH 7 TESTSTANDS,THIS IS RUN 5 OF 5

FOR TESTSTAND-QUARTER NO. 1

FOR ENTRY NO. 1  
MISSION = 4. CBE= 0.074 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 4  
MISSION = 20. CBE= 0.004 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 22. CBE= 0.084 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 8. CBE= 0.006 U.1,D.0 = 0. H.1,NH.0 = 0. P.1,NP.0 = 1.  
TOTAL CBE VALUE FOR FILE 1 = 0.420

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 2  
MISSION = 20. CBE= 0.074 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 3  
MISSION = 8. CBE= 0.006 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 1.

FOR ENTRY NO. 4  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 5  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6  
MISSION = 4. CBE= 0.194 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 7  
MISSION = 22. CBE= 0.085 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.  
TOTAL CBE VALUE FOR FILE 2 = 0.614

TO FIND BEST RUN NO. FOR YEAR 1992.-----

PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 1993.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 1994.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 1995.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 1996.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 1997.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	5.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 1998.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	2.	2.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 1999.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.
TO FIND BEST RUN NO. FOR YEAR 2000.-----				
PUMINR	PDMINR	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.
PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.



TO FIND BEST RUN NO. FOR YEAR 2001.-----

PUMINR	PDMINE	CUMINR	CDMINR	TQMINR
1.	1.	1.	1.	1.

PUMAXR	PDMAXR	CUMAXR	CDMAXR	TQMAXR
1.	1.	1.	1.	1.

S L A M   S U M M A R Y   R E P O R T

SIMULATION PROJECT NASA3

BY D LINTON

DATE 5/20/1985

RUN NUMBER 1 OF 1

CURRENT TIME 0.7350E+01

STATISTICAL ARRAYS CLEARED AT TIME 0.0000E+00

\*\*FILE STATISTICS\*\*

FILE NUMBER	ASSOCIATED NODE TYPE	AVERAGE LENGTH	STANDARD DEVIATION	MAXIMUM LENGTH	CURRENT LENGTH	AVERAGE WAIT TIME
1	AWAIT	3.106	2.419	8	0	0.074
2	AWAIT	2.506	2.285	8	0	0.068
3	AWAIT	0.219	0.929	7	0	0.070
4	AWAIT	0.039	0.195	1	0	0.058
5	AWAIT	0.000	0.000	0	0	0.000
6	AWAIT	0.000	0.000	0	0	0.000
7	AWAIT	0.000	0.000	0	0	0.000
8	AWAIT	0.000	0.000	0	0	0.000
9	AWAIT	0.000	0.000	0	0	0.000
10	AWAIT	0.000	0.000	0	0	0.000
11	AWAIT	0.000	0.000	0	0	0.000
12	AWAIT	0.000	0.000	0	0	0.000
13	AWAIT	0.000	0.000	0	0	0.000
14	AWAIT	0.000	0.000	0	0	0.000
15	AWAIT	0.000	0.000	0	0	0.000
16	AWAIT	0.000	0.000	0	0	0.000
17	AWAIT	0.000	0.000	0	0	0.000
18	AWAIT	0.000	0.000	0	0	0.000
19	AWAIT	0.000	0.000	0	0	0.000
20	AWAIT	0.000	0.000	0	0	0.000
21	AWAIT	0.000	0.000	0	0	0.000
22	AWAIT	0.000	0.000	0	0	0.000
23	AWAIT	0.000	0.000	0	0	0.000
24	AWAIT	0.000	0.000	0	0	0.000
25	AWAIT	0.000	0.000	0	0	0.000
26	AWAIT	0.000	0.000	0	0	0.000
27	AWAIT	0.000	0.000	0	0	0.000
28	AWAIT	0.000	0.000	0	0	0.000
29	AWAIT	0.000	0.000	0	0	0.000
30	AWAIT	60.326	38.784	129	1	3.122
31	AWAIT	7.475	4.704	17	0	0.084
32	AWAIT	6.583	4.692	17	0	0.074
33	CALENDAR	1.000	0.000	133	0	0.001

\*\*RESOURCE STATISTICS\*\*

RESOURCE NUMBER	RESOURCE LABEL	CURRENT CAPACITY	AVERAGE UTIL	STANDARD DEVIATION	MAXIMUM UTIL	CURRENT UTIL
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1	PYLDXPRT	0	0.00	0.000	0	0
2	ALLPYLDS	1	1.00	0.000	1	1
3	TQ1	0	0.00	0.000	0	0
4	TQ2	0	0.00	0.000	0	0
5	TQ3	0	0.00	0.000	0	0
6	TQ4	0	0.00	0.000	0	0
7	TQ5	0	0.00	0.000	0	0
8	TQ6	0	0.00	0.000	0	0
9	TQ7	0	0.00	0.000	0	0
10	TQ8	0	0.00	0.000	0	0
11	TQ9	0	0.00	0.000	0	0
12	TQ10	0	0.00	0.000	0	0
13	TQ11	0	0.00	0.000	0	0
14	TQ12	0	0.00	0.000	0	0
15	TQ13	0	0.00	0.000	0	0
16	TQ14	0	0.00	0.000	0	0
17	TQ15	0	0.00	0.000	0	0
18	TQ16	0	0.00	0.000	0	0
19	TQ17	0	0.00	0.000	0	0
20	TQ18	0	0.00	0.000	0	0
21	TQ19	0	0.00	0.000	0	0
22	TQ20	0	0.00	0.000	0	0
23	TQ21	0	0.00	0.000	0	0
24	TQ22	0	0.00	0.000	0	0
25	TQ23	0	0.00	0.000	0	0
26	TQ24	0	0.00	0.000	0	0
27	TQ25	0	0.00	0.000	0	0
28	TQ26	0	0.00	0.000	0	0
29	TQ27	0	0.00	0.000	0	0
30	TQ28	0	0.00	0.000	0	0
31	MORETSDS	0	0.00	0.000	0	0

RESOURCE NUMBER	RESOURCE LABEL	CURRENT AVAILABLE	AVERAGE AVAILABLE	MINIMUM AVAILABLE	MAXIMUM AVAILABLE
1	PYLDXPRT	0	0.0000	0	0
2	ALLPYLDS	0	0.0000	0	1
3	TQ1	0	0.0000	0	0
4	TQ2	0	0.0000	0	0
5	TQ3	0	0.0000	0	0
6	TQ4	0	0.0000	0	0
7	TQ5	0	0.0000	0	0
8	TQ6	0	0.0000	0	0
9	TQ7	0	0.0000	0	0
10	TQ8	0	0.0000	0	0
11	TQ9	0	0.0000	0	0
12	TQ10	0	0.0000	0	0
13	TQ11	0	0.0000	0	0
14	TQ12	0	0.0000	0	0
15	TQ13	0	0.0000	0	0
16	TQ14	0	0.0000	0	0
17	TQ15	0	0.0000	0	0
18	TQ16	0	0.0000	0	0
19	TQ17	0	0.0000	0	0
20	TQ18	0	0.0000	0	0
21	TQ19	0	0.0000	0	0
22	TQ20	0	0.0000	0	0
23	TQ21	0	0.0000	0	0
24	TQ22	0	0.0000	0	0

25	TQ23	0	0.0000	0	0
26	TQ24	0	0.0000	0	0
27	TQ25	0	0.0000	0	0
28	TQ26	0	0.0000	0	0
29	TQ27	0	0.0000	0	0
30	TQ28	0	0.0000	0	0
31	MORETSDS	0	0.0000	0	0

\*\*GATE STATISTICS\*\*

GATE NUMBER	GATE LABEL	CURRENT STATUS	PCT. OF TIME OPEN
1	DUPGATE	CLOSED	0.0544

\*\*TABLE NUMBER 1\*\*  
RUN NUMBER 1

YEAR OF PAYLOAD	MIN # PL XP TO SS	MAX PLXP TO SS	AVG PLXP TO SS
0.1992E+04	0.2000E+01	0.2000E+01	0.2000E+01
0.1993E+04	0.6000E+01	0.6000E+01	0.6000E+01
0.1994E+04	0.5000E+01	0.5000E+01	0.5000E+01
0.1995E+04	0.8000E+01	0.8000E+01	0.8000E+01
0.1996E+04	0.6000E+01	0.6000E+01	0.6000E+01
0.1997E+04	0.9000E+01	0.9000E+01	0.9000E+01
0.1998E+04	0.7000E+01	0.7000E+01	0.7000E+01
0.1999E+04	0.8000E+01	0.8000E+01	0.8000E+01
0.2000E+04	0.6000E+01	0.6000E+01	0.6000E+01
0.2001E+04	0.7000E+01	0.7000E+01	0.7000E+01
MINIMUM	0.2000E+01	0.2000E+01	0.2000E+01
MAXIMUM	0.9000E+01	0.9000E+01	0.9000E+01

\*\*PLOT NUMBER 1\*\*  
RUN NUMBER 1

SCALES OF PLOT

L=MIN # PLXP TO	0.000E+00	0.500E+02	0.100E+03
H=MAX PLXP TO	0.000E+00	0.500E+02	0.100E+03
A=AVG PLXP TO	0.000E+00	0.500E+02	0.100E+03

0 10 20 30 40 50 60 70 80 90 100 DUPS

YEAR OF PAYLOAD

0.1992E+04	+L	+	+ LH LA
0.1993E+04	+ L	+	+ LH LA
0.1994E+04	+ L	+	+ LH LA
0.1995E+04	+ L	+	+ LH LA
0.1996E+04	+ L	+	+ LH LA
0.1997E+04	+ L	+	+ LH LA
0.1998E+04	+ L	+	+ LH LA
0.1999E+04	+ L	+	+ LH LA
0.2000E+04	+ L	+	+ LH LA
0.2001E+04	+ L	+	+ LH LA



\*\*TABLE NUMBER 3\*\*  
 RUN NUMBER 1

YEAR OF PAYLOAD	MIN CBE TO SS	MAX CBE TO SS	AVG CBE TO SS
0.1992E+04	0.2810E+00	0.2810E+00	0.2810E+00
0.1993E+04	0.9510E+00	0.9510E+00	0.9510E+00
0.1994E+04	0.4510E+00	0.4510E+00	0.4510E+00
0.1995E+04	0.9490E+00	0.9490E+00	0.9490E+00
0.1996E+04	0.4020E+00	0.4020E+00	0.4020E+00
0.1997E+04	0.2651E+01	0.2651E+01	0.2651E+01
0.1998E+04	0.3685E+00	0.3685E+00	0.3685E+00
0.1999E+04	0.6700E+00	0.6700E+00	0.6700E+00
0.2000E+04	0.4570E+00	0.4570E+00	0.4570E+00
0.2001E+04	0.6140E+00	0.6140E+00	0.6140E+00
MINIMUM	0.2810E+00	0.2810E+00	0.2810E+00
MAXIMUM	0.2651E+01	0.2651E+01	0.2651E+01

\*\*PLOT NUMBER 3\*\*  
 RUN NUMBER 1

SCALES OF PLOT

L=MIN CBE TO S0.000E+00	0.500E+02	0.100E+03
H=MAX CBE TO S0.000E+00	0.500E+02	0.100E+03
A=AVG CBE TO S0.000E+00	0.500E+02	0.100E+03

YEAR OF PAYLOAD	0	10	20	30	40	50	60	70	80	90	100	DUPS
0.1992E+04	L					+						+ LH LA
0.1993E+04	L					+						+ LH LA
0.1994E+04	L					+						+ LH LA
0.1995E+04	L					+						+ LH LA
0.1996E+04	L					+						+ LH LA
0.1997E+04	+L					+						+ LH LA
0.1998E+04	L					+						+ LH LA
0.1999E+04	L					+						+ LH LA
0.2000E+04	L					+						+ LH LA
0.2001E+04	L					+						+ LH LA
YEAR OF PAYLOAD	0	10	20	30	40	50	60	70	80	90	100	DUPS

OUTPUT CONSISTS OF 10 POINT SETS ( 30 POINTS)

\*\*TABLE NUMBER 4\*\*  
 RUN NUMBER 1

YEAR OF PAYLOAD	MIN CBE FM SS	MAX CBE FM SS	AVG CBE FM SS
0.1992E+04	0.0000E+00	0.0000E+00	0.0000E+00
0.1993E+04	0.9170E+00	0.9170E+00	0.9170E+00
0.1994E+04	0.5610E+00	0.5610E+00	0.5610E+00



