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Produced by the NASA Center for Aerospace Information (CASI)
FOR NASA GRANT NO. NAG10-0013

ENTITLED

A USER-FRIENDLY SIMULATION MODEL FOR ANALYZING SPACE STATION MISSION PROCESSING REQUIREMENTS

COVERING THE PERIOD SEPTEMBER 11, 1984 TO MAY 11, 1985

A FINAL REPORT ENTITLED

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

BY

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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.

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 Al is used instead of ATTRIB(1), A2 instead of ATTRIB(2), etc.):

a. the mission number (Al);

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, ..., 4*(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, i.9
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
Figure 1  Network portion of the Teststand Utilization SLAM model
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<=II<=28

XX(31)=I, which is the rule number I, 1<=I<=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<=XX(32)<=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<=II<=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 Al=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 TSDD (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  RULE 2  RULE 3  RULE 4  RULE 5  RULE 6  RULE 7  RULE 8
1   0  0  0  X  0  0  0  X  0  0  0  X  X  X  0  X  0  X  X
2   0  0  1  X  0  1  0  X  1  0  1  X  X  X  1  X  1  X  X
3   0  1  0  X  1  0  1  X  0  1  0  X
4   0  1  1  X  1  1  1  X  1  1  1  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<=II<=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 PYLDXPRTs 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: PYLDXPRTs launched and returned, CBEs launched and returned and TQs required; and

c. tables and plots of the minimum, maximum and average number of: PYLDXPRTs 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 PYLDXPRTs (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 FYLDPXPR 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 FYLDPXPRs 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 FYLDPXPRs 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 FYLDPXPRs are segregated within TQs.

Following the printout of the allocation of FYLDPXPRs 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 FYLDPXPRs launched
- PUMAXR= the run number yielding the maximum number of FYLDPXPRs launched
- PDMINR= the run number yielding the minimum number of FYLDPXPRs returned
- PDMAXR= the run number yielding the maximum number of FYLDPXPRs 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 outputed 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

This work was supported by the National Aeronautics and Space Administration, Kennedy Space Center, Florida, under Research Grant No. NAG10-0013.

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.

REFERENCES


APPENDIX A

SLAM II statements for TSU model
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; PUMAX
8 VAR, SS(23), A, AVG PLXP TO SS, 0, 100; 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=DUPLEXED 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
(3)=NOT USED
(4)=CBE VALUE
(5)=RANDOM NO. FOR SHUFFLING INPUT DATA FOR SUCCESSIVE RUNS
(6)=FILE NUMBER FOR FILING ENTITIES INTO APPROPRIATE TQ
(7)=0, DOWNFLOW; 1, LAUNCH
(8)=0, NONHAZARDOUS; 1, HAZARDOUS
(9)=0, LOW INCLINATION ORBIT; 1, POLAR ORBIT
(10)=1, IF ENTITY AT NODE SA10 SATISFIES RULE ASSOCIATED WITH XX(31), SS(II), FOR FILING AT II
=0, IF ENTITY DOES NOT SATISFY RULE FOR FILE II AT NODE SA10
; SS(II)=1,2,....8, DEPENDING UPON VALUE OF XX(31) AND ATTRIBS 7,8,9
FOR FILE II (SET AT NODE STSS)
RULE 1 = SEGREGATE ON A7,A8,A9 RULE 5=SEGREGATE ON A9 ONLY
RULE 2 = ON A8,A9 RULE 6= ON A8 ONLY
RULE 3 = ON A7, A9 RULE 7= ON A7 ONLY
RULE 4 = ON A7,A8 RULE 8= NO SEGREGATION

INTLC, XX(31)=5, XX(32)=5, XX(33)=0, XX(34)=8, XX(35)=7;
INTLC, XX(36)=1992, XX(37)=1992, XX(38)=2001;
NETWORK;
RES/PYLDXPRT(0),31; FOR PAYLOAD XPRTS FOR YEAR IN PROCESS
RES/ALLPYLDS(1),30; FOR ALL PYLD XPRTS FOR ALL YEARS
GAT/DUPGATE,CLOSED,32;
RES/TQ1(0),1;
RES/TQ2(0),2;
RES/TQ3(0),3;
RES/TQ4(0),4;
RES/TQ5(0),5;
RES/TQ6(0),6;
RES/TQ7(0),7;
RES/TQ8(0),8;
RES/TQ9(0),9;
RES/TQ10(0),10;
RES/TQ11(0),11;
RES/TQ12(0),12;
RES/TQ13(0),13;
RES/TQ14(0),14;
RES/TQ15(0),15;
RES/TQ16(0),16;
RES/TQ17(0),17;
RES/TQ18(0),18;
RES/TQ19(0),19;
RES/TQ20(0),20;
RES/TQ21(0),21;
RES/TQ22(0),22;
RES/TQ23(0),23;
RES/TQ24(0),24;
RES/TQ25(0),25;
RES/TQ26(0),26;
RES/TQ27(0),27;
RES/TQ28(0),28;
RES/MORETDS(0),29;

ALLP AWAII(30),ALLPYLDS/1,2; M=2
ACT ,,XX(36).GE.ATRIB(2),PYLD;
ACT ,,XX(36).GE.ATRIB(2),NXTY;
ACT,,ALLP;
ACT,.01,,NEXT;
NXTY FREE,ALLPYLDS/1;

T1 TERM;

PYLD AWAII(31),PYLDPRT/1,2; M=2
ACT,,A'TIB(1).EQ.0.,DUPG;LAST ENTITY 4 ALL RUNS HAS A1,A5 SET
ACT,,A'TIB(1).GT.0,II0;
ACT,,A'TIB(1).EQ.O,PRNT;
ACT,,ARAN;
ARAN ASS,A'TIB(5)=DRAND;

DUPG AWAII(32),DUPGATE;
ACT,,PYLD;

PRNT EVENT,3,1;JEVNT=3,PRINT OUT FILES,XX(33)=XX(33)+1
ACT,,XX(33).GE.XX(32),ENDY;
ACT,.01,,OPND;DELAY OPENING SO ZERO TIME ACTIVS COMPLETED

OPEN,DUPGATE;
ACT,.01;
CLOSE,DUPGATE;
ACT,.01,,NEXT;

ASS,XX(36)=XX(36)+1,XX(33)=0,1;
ACT,,XX(36).GT.XX(38),END;IF DONE,TERMINATE

ENDY ASS,XX(36)=XX(36)+1,XX(33)=0,1;
ACT,,XX(36).GT.XX(38),END;IF DONE,TERMINATE

ENDY ASS,XX(36)=XX(36)+1,XX(33)=0,1;

ENDY ASS,XX(36)=XX(36)+1,XX(33)=0,1;

II0 ISS,II=0;

GOON;

ASS,II=II+1,1;

GOON,1; M=1

ACT,,II.GT.4*XX(35),MORE; XX(35)=NO. TESTSTANDS MODELED
ACT,,XX(II)+ATRIB(4).LE.1.,G2;

ACT,,GO;
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.0,A1; ENTITY MATCHES RULE FOR II
140      ACT,,ATRIB(10).EQ.1,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  TS_DS AWAIT(ATRIB(6)=1,29),ATRIB(6)/1;
152      TERM;
153      ENDMETHOD;
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
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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
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176 ; NASA DATA MAY 1985, FOR YEARS 1992 TO 2001
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191  ENT/30,4,1993,0,148,0,0,1,0,0;
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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,NCLNR1,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

RULE 1, SEGREGATE ON A7,A8,A9
CONTINUE
DO111=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
CONTINUE
GOTO99

RULE 2, SEGREG ON A8,A9
CONTINUE
DO211=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, SEGREG 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
I91=I-1
DO42J=1, 2
J91=J-1
IF(I7.EQ.I91 .AND. I8.EQ.J91) 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 SEGR SS ****** 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 INTL;

I7=ATRIB(7)
I8=ATRIB(8)
I9=ATRIB(9)
KEY=XX(31)
KEYI=SS(II)
L=1
GOTO(1,2,3,4,5,6,7,8),KEY
RULE1, SEGREGATE ON A7,A8,A9
CONTINUE
DOLL=1,2
IML=I-1
DOL2=1,2
JML=J-1
DOL3=1,2
KML=K-1
IF: I7.EQ. IML .AND. I8.EQ.JML .AND. I9.EQ.KML .AND. KEYL.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. KEYI.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. KEYI.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. KEYI.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)
  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
  FORMAT(1X,' ****** IN SETA10 **** KEY,SS(II),II= ', 3I4)
RETURN

ATRIB(10)=1
RETURN
END

* * END OF FILE * * *
SUBROUTINE PRTF

COMMON/SCOM1/ ATRIB(100), DD(100), DDL(100), DTNOW, II, MFA, MSTOP, NCLR1, NCRRDR, NPRNT, NNRRUN, NNRSET, NTAPE, SS(100), SSL(100), TNEXT, TNOW, XX(100)

FOR NASA3

DIMENSION PLUP(20,20), PLDN(20,20), CBUP(20,20), CBDN(20,20),
1 TQS(20,20), PUMIN(20), PUMAX(20), PUAVG(20), CUMIN(20), CUMAX(20)
2, CUAVG(20), TQSMIN(20), TQSMAX(20), TQS AVG(20), PDMIN(20), PDMAX(20),
3 PDAVG(20), CDMIN(20), CD MAX(20), CDAVG(20)

DIMENSIONPUMINR(20), CUMINR(20), PDMINR(20), CDMINR(20), TQSMINR(20),
1 PUMAXR(20), CUMAXR(20), PDMAXR(20), CDMAXR(20), TQSMAXR(20)

DATA PUMIN,CUMIN,PDMIN,CDMIN,TQSMIN/100*1000./
DATA PUMAX,CUMAX,PDMAX,CDMAX,TQSMAX/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

FORMAT(/,1X,' FOR YEAR ',F5.0,20('*')
1 USING RULE NO.',I2,1X,'WITH',I2,' TESTSTANDS THIS 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 RMOVE & 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 FROM SS TO GRND
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 PUMINR(IYR)=PLUP(IYR,IRUN)
PUMINR(IYR)=IRUN
GOTO3000
03 PUMAXR(IYR)=PLUP(IYR,IRUN)
PUMAXR(IYR)=IRUN
GOTO3002
05 CUMINR(IYR)=CBUP(IYR,IRUN)
CUMINR(IYR)=IRUN
GOTO3004
07 CUMAXR(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)
   TQSMINR(IYR)=IRUN
   GOTO3016
19 TQSMAX(IYR)=TQS(IYR,IRUN)
   TQSMAXR(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 DUPGATE(FILE 32)
   I=NNQ(32)
   DO 499 J=1,I
   9   CALL REMOVE(1,32,A)
   0   CONTINUE
   DO60 I=1,IFIL
   60  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 CONTINUE
   NYRS=XX(38)-XX(37)+1
   DO800 I=1,NYRS
   800  YEAR=XX(37)+I-1
   WRITE(NPRTN,801)YEAR
   1 FORMAT(5X,' TO FIND BEST RUN NO. FOR YEAR ',F6.0,25('—'))
   WRITE(NPRTN,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)=PDMAXR(I)
   SS(26)=PDAVG(I)
   CALL GPLOT(2)
   SS(27)=CUMIN(I)
   SS(28)=CUMAXR(I)
   SS(29)=CUAVG(I)
   SS(30)=CDAVG(I)
   SS(31)=TQSAVG(I)
CALL G PLOT (3)
SS(30) = CDMIN(I)
SS(31) = CDMAX(I)
SS(32) = CDAVG(I)
CALL G PLOT (4)
SS(33) = TQSMIN(I)
SS(34) = TQSMAX(I)
SS(35) = TQSAVG(I)
CALL G PLOT (5)
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

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


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= 0.084 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.

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.0 =  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.

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<table>
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TO FIND BEST RUN NO. FOR YEAR 1993.

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TO FIND BEST RUN NO. FOR YEAR 1997.

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<tr>
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</tr>
</tbody>
</table>

TO FIND BEST RUN NO. FOR YEAR 1998.
SLAM SUMMARY REPORT

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**

<table>
<thead>
<tr>
<th>RUN NUMBER</th>
<th>1</th>
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</table>

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>MIN # PL XP TO SS</th>
<th>MAX PL XP TO SS</th>
<th>AVG PL XP TO SS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1992E+04</td>
<td>0.2000E+01</td>
<td>0.2000E+01</td>
<td>0.2000E+01</td>
</tr>
<tr>
<td>0.1993E+04</td>
<td>0.6000E+01</td>
<td>0.6000E+01</td>
<td>0.6000E+01</td>
</tr>
<tr>
<td>0.1994E+04</td>
<td>0.5000E+01</td>
<td>0.5000E+01</td>
<td>0.5000E+01</td>
</tr>
<tr>
<td>0.1995E+04</td>
<td>0.8000E+01</td>
<td>0.8000E+01</td>
<td>0.8000E+01</td>
</tr>
<tr>
<td>0.1996E+04</td>
<td>0.6000E+01</td>
<td>0.6000E+01</td>
<td>0.6000E+01</td>
</tr>
<tr>
<td>0.1997E+04</td>
<td>0.9000E+01</td>
<td>0.9000E+01</td>
<td>0.9000E+01</td>
</tr>
<tr>
<td>0.1998E+04</td>
<td>0.7000E+01</td>
<td>0.7000E+01</td>
<td>0.7000E+01</td>
</tr>
<tr>
<td>0.1999E+04</td>
<td>0.8000E+01</td>
<td>0.8000E+01</td>
<td>0.8000E+01</td>
</tr>
<tr>
<td>0.2000E+04</td>
<td>0.6000E+01</td>
<td>0.6000E+01</td>
<td>0.6000E+01</td>
</tr>
<tr>
<td>0.2001E+04</td>
<td>0.7000E+01</td>
<td>0.7000E+01</td>
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</tbody>
</table>

**MINIMUM**

<table>
<thead>
<tr>
<th>MIN # PL XP TO SS</th>
<th>MAX PL XP TO SS</th>
<th>AVG PL XP TO SS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2000E+01</td>
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**MAXIMUM**

<table>
<thead>
<tr>
<th>MIN # PL XP TO SS</th>
<th>MAX PL XP TO SS</th>
<th>AVG PL XP TO SS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.9000E+01</td>
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**PLOT NUMBER 1**

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<tr>
<th>RUN NUMBER</th>
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<table>
<thead>
<tr>
<th>SCALES OF PLOT</th>
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</thead>
<tbody>
<tr>
<td>=MIN # PL XP TO 0.000E+00</td>
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<tr>
<td>=MAX PL XP TO 0.000E+00</td>
</tr>
<tr>
<td>=AVG PL XP TO 0.000E+00</td>
</tr>
</tbody>
</table>

EAR OF PAYLOAD:

- 0.1992E+04 + L
- 0.1993E+04 + L
- 0.1994E+04 + L
- 0.1995E+04 + L
- 0.1996E+04 + L
- 0.1997E+04 + L
- 0.1998E+04 + L
- 0.1999E+04 + L
- 0.2000E+04 + L
- 0.2001E+04 + L
**TABLE NUMBER 2**

RUN NUMBER 1

<table>
<thead>
<tr>
<th>YEAR OF</th>
<th>MIN PLXP</th>
<th>MAX PLXP</th>
<th>AVG PLXP</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM SS</td>
<td>FM SS</td>
<td>FM SS</td>
<td></td>
</tr>
<tr>
<td>0.1992E+04</td>
<td>0.0000E+00</td>
<td>0.0000E+00</td>
<td>0.0000E+00</td>
</tr>
<tr>
<td>0.1993E+04</td>
<td>0.5000E+01</td>
<td>0.5000E+01</td>
<td>0.5000E+01</td>
</tr>
<tr>
<td>0.1994E+04</td>
<td>0.6000E+01</td>
<td>0.6000E+01</td>
<td>0.6000E+01</td>
</tr>
<tr>
<td>0.1995E+04</td>
<td>0.5000E+01</td>
<td>0.5000E+01</td>
<td>0.5000E+01</td>
</tr>
<tr>
<td>0.1996E+04</td>
<td>0.5000E+01</td>
<td>0.5000E+01</td>
<td>0.5000E+01</td>
</tr>
<tr>
<td>0.1997E+04</td>
<td>0.7000E+01</td>
<td>0.7000E+01</td>
<td>0.7000E+01</td>
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<tr>
<td>0.1998E+04</td>
<td>0.7000E+01</td>
<td>0.7000E+01</td>
<td>0.7000E+01</td>
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<td>0.1999E+04</td>
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<td>0.7000E+01</td>
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<td>0.8000E+01</td>
<td>0.8000E+01</td>
<td>0.8000E+01</td>
</tr>
<tr>
<td>0.2001E+04</td>
<td>0.7000E+01</td>
<td>0.7000E+01</td>
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</tbody>
</table>

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

SCALES OF PLOT
=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

EVAR OF PAYLOAD
0.1992E+04 L + HL LA
0.1993E+04 + L + HL LA
0.1994E+04 + L + HL LA
0.1995E+04 + L + HL LA
0.1996E+04 + L + HL LA
0.1997E+04 + L + HL LA
0.1998E+04 + L + HL LA
0.1999E+04 + L + HL LA
0.2000E+04 + L + HL LA
0.2001E+04 + L + HL LA

EVAR OF PAYLOAD
0 10 20 30 40 50 60 70 80 90 100 DUPS
**TABLE NUMBER 3**

**RUN NUMBER 1**

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>MIN CBE TO SS</th>
<th>MAX CBE TO SS</th>
<th>AVG CBE TO SS</th>
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<td>0.9510E+00</td>
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**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**

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<tr>
<th>SCALES OF PLOT</th>
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<tr>
<td>=MAX CBE TO 0.000E+00 0.500E+02 0.100E+03</td>
</tr>
<tr>
<td>=AVG CBE TO 0.000E+00 0.500E+02 0.100E+03</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>0 10 20 30 40 50 60 70 80 90 100 DUPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1992E+04 L</td>
<td>+</td>
</tr>
<tr>
<td>0.1993E+04 L</td>
<td>+</td>
</tr>
<tr>
<td>0.1994E+04 L</td>
<td>+</td>
</tr>
<tr>
<td>0.1995E+04 L</td>
<td>+</td>
</tr>
<tr>
<td>0.1996E+04 L</td>
<td>+</td>
</tr>
<tr>
<td>0.1997E+04 +L</td>
<td>+</td>
</tr>
<tr>
<td>0.1998E+04 L</td>
<td>+</td>
</tr>
<tr>
<td>0.1999E+04 L</td>
<td>+</td>
</tr>
<tr>
<td>0.2000E+04 L</td>
<td>+</td>
</tr>
<tr>
<td>0.2001E+04 L</td>
<td>+</td>
</tr>
</tbody>
</table>

**EAR OF PAYLOAD**
**TABLE NUMBER 4**
RUN NUMBER 1

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>MIN CBE</th>
<th>MAX CBE</th>
<th>AVG CBE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1992E+04</td>
<td>0.0000E+00</td>
<td>0.0000E+00</td>
<td>0.0000E+00</td>
</tr>
<tr>
<td>0.1993E+04</td>
<td>0.9170E+00</td>
<td>0.9170E+00</td>
<td>0.9170E+00</td>
</tr>
<tr>
<td>0.1994E+04</td>
<td>0.5610E+00</td>
<td>0.5610E+00</td>
<td>0.5610E+00</td>
</tr>
<tr>
<td>0.1995E+04</td>
<td>0.4100E+00</td>
<td>0.4100E+00</td>
<td>0.4100E+00</td>
</tr>
<tr>
<td>0.1996E+04</td>
<td>0.3420E+00</td>
<td>0.3420E+00</td>
<td>0.3420E+00</td>
</tr>
<tr>
<td>0.1997E+04</td>
<td>0.5270E+00</td>
<td>0.5270E+00</td>
<td>0.5270E+00</td>
</tr>
<tr>
<td>0.1998E+04</td>
<td>0.3645E+00</td>
<td>0.3645E+00</td>
<td>0.3645E+00</td>
</tr>
<tr>
<td>0.1999E+04</td>
<td>0.4200E+00</td>
<td>0.4200E+00</td>
<td>0.4200E+00</td>
</tr>
<tr>
<td>0.2000E+04</td>
<td>0.7570E+00</td>
<td>0.7570E+00</td>
<td>0.7570E+00</td>
</tr>
<tr>
<td>0.2001E+04</td>
<td>0.4200E+00</td>
<td>0.4200E+00</td>
<td>0.4200E+00</td>
</tr>
</tbody>
</table>

MINIMUM 0.0000E+00 0.0000E+00 0.0000E+00
MAXIMUM 0.9170E+00 0.9170E+00 0.9170E+00

**PLOT NUMBER 4**
RUN NUMBER 1

SCALES OF PLOT

L=MIN CBE FM S0.000E+00 0.500E+01 0.100E+02
H=MAX CBE FM S0.000E+00 0.500E+01 0.100E+02
A=AVG CBE FM S0.000E+00 0.500E+01 0.100E+02

YEAR OF PAYLOAD

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

YEAR OF PAYLOAD

0 10 20 30 40 50 60 70 80 90 100 DUPS
**TABLE NUMBER 5**

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>MIN TQS NEEDED</th>
<th>MAX TQS NEEDED</th>
<th>AVG TQS NEEDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1992E+04</td>
<td>0.1000E+01</td>
<td>0.1000E+01</td>
<td>0.1000E+01</td>
</tr>
<tr>
<td>0.1993E+04</td>
<td>0.2000E+01</td>
<td>0.3000E+01</td>
<td>0.2200E+01</td>
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<tr>
<td>0.1994E+04</td>
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<td>0.2000E+01</td>
<td>0.2000E+01</td>
</tr>
<tr>
<td>0.1995E+04</td>
<td>0.3000E+01</td>
<td>0.3000E+01</td>
<td>0.3000E+01</td>
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<tr>
<td>0.1996E+04</td>
<td>0.2000E+01</td>
<td>0.2000E+01</td>
<td>0.2000E+01</td>
</tr>
<tr>
<td>0.1997E+04</td>
<td>0.5000E+01</td>
<td>0.5000E+01</td>
<td>0.5000E+01</td>
</tr>
<tr>
<td>0.1998E+04</td>
<td>0.2000E+01</td>
<td>0.2000E+01</td>
<td>0.2000E+01</td>
</tr>
<tr>
<td>0.1999E+04</td>
<td>0.3000E+01</td>
<td>0.3000E+01</td>
<td>0.3000E+01</td>
</tr>
<tr>
<td>0.2000E+04</td>
<td>0.3000E+01</td>
<td>0.3000E+01</td>
<td>0.3000E+01</td>
</tr>
<tr>
<td>0.2001E+04</td>
<td>0.3000E+01</td>
<td>0.3000E+01</td>
<td>0.3000E+01</td>
</tr>
</tbody>
</table>

**MINIMUM** 0.1000E+01 0.1000E+01 0.1000E+01

**MAXIMUM** 0.5000E+01 0.5000E+01 0.5000E+01

**PLOT NUMBER 5**

**SCALES OF PLOT**

<table>
<thead>
<tr>
<th>L=MIN TQS NEEDED</th>
<th>0.000E+00</th>
<th>0.500E+01</th>
<th>0.100E+02</th>
</tr>
</thead>
<tbody>
<tr>
<td>H=MAX TQS NEEDED</td>
<td>0.000E+00</td>
<td>0.500E+01</td>
<td>0.100E+02</td>
</tr>
<tr>
<td>A=AVG TQS NEEDED</td>
<td>0.000E+00</td>
<td>0.500E+01</td>
<td>0.100E+02</td>
</tr>
</tbody>
</table>

YEARS OF PAYLOAD

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>+ L</th>
<th>+ L</th>
<th>+ L</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1992E+04</td>
<td>+ L</td>
<td>+ L</td>
<td>+ L</td>
</tr>
<tr>
<td>0.1993E+04</td>
<td>+ L</td>
<td>+ L</td>
<td>+ L</td>
</tr>
<tr>
<td>0.1994E+04</td>
<td>+ L</td>
<td>+ L</td>
<td>+ L</td>
</tr>
<tr>
<td>0.1995E+04</td>
<td>+ L</td>
<td>+ L</td>
<td>+ L</td>
</tr>
<tr>
<td>0.1996E+04</td>
<td>+ L</td>
<td>+ L</td>
<td>+ L</td>
</tr>
<tr>
<td>0.1997E+04</td>
<td>+ L</td>
<td>+ L</td>
<td>+ L</td>
</tr>
<tr>
<td>0.1998E+04</td>
<td>+ L</td>
<td>+ L</td>
<td>+ L</td>
</tr>
<tr>
<td>0.1999E+04</td>
<td>+ L</td>
<td>+ L</td>
<td>+ L</td>
</tr>
<tr>
<td>0.2000E+04</td>
<td>+ L</td>
<td>+ L</td>
<td>+ L</td>
</tr>
<tr>
<td>0.2001E+04</td>
<td>+ L</td>
<td>+ L</td>
<td>+ L</td>
</tr>
</tbody>
</table>

YEARS OF PAYLOAD

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>0 10 20 30 40 50 60 70 80 90 100 DUPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1992E+04</td>
<td>+ LH LA</td>
</tr>
<tr>
<td>0.1993E+04</td>
<td>+ LH LA</td>
</tr>
<tr>
<td>0.1994E+04</td>
<td>+ LH LA</td>
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<td>0.1995E+04</td>
<td>+ LH LA</td>
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<tr>
<td>0.1996E+04</td>
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<td>0.1999E+04</td>
<td>+ LH LA</td>
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<tr>
<td>0.2000E+04</td>
<td>+ LH LA</td>
</tr>
<tr>
<td>0.2001E+04</td>
<td>+ LH LA</td>
</tr>
</tbody>
</table>
APPENDIX D

Complete TSU model output using rule 7
GEN,D LINTON,NASA3,05/20/85,1,,,,,72;
LIM,32,10,400;
PRI/30,LVF(2)/31,LVF(5);

; RECORD(1),SS(20),YEAR OF PAYLOAD,11,B,1,.,.,.,NO;
VAR,SS(21),L,MIN # PLXP TO SS,0,100; PUMIN
VAR,SS(22),H,MAX PLXP TO SS,0,100;X; PUMAX
VAR,SS(23),A,AVG PLXP TO SS,0,100;X; PUAVG

RECORD(2),SS(20),YEAR OF PAYLOAD,12,B,1,.,.,.,NO;
VAR,SS(24),L,MIN PLXP FM SS,0,100;X; PDMIN
VAR,SS(25),H,MAX PLXP FM SS,0,100;X; PDMAX
VAR,SS(26),A,AVG PLXP FM SS,0,100;X; PDAVG

RECORD(3),SS(20),YEAR OF PAYLOAD,13,B,1,.,.,.,NO;
VAR,SS(27),L,MIN CBE TO SS,0,100;X; CUMIN
VAR,SS(28),H,MAX CBE TO SS,0,100;X; CUMAX
VAR,SS(29),A,AVG CBE TO SS,0,100;X; CUAVG

RECORD(4),SS(20),YEAR OF PAYLOAD,14,B,1,.,.,.,NO;
VAR,SS(30),L,MIN CBE FM SS,0,10; CDMIN
VAR,SS(31),H,MAX CBE FM SS,0,10; CDMAX
VAR,SS(32),A,AVG CBE FM SS,0,10; CDAVG

RECORD(5),SS(20),YEAR OF PAYLOAD,15,B,1,.,.,.,NO;
VAR,SS(33),L,MIN TQS NEEDED,0,10; TQSMIN
VAR,SS(34),H,MAX TQS NEEDED,0,10; TQSMAX
VAR,SS(35),A,Avg TQS NEEDED,0,10; TQSAVG

; 1 ENTITY=1 PAYLOAD TRANSPORT
; 11 =INDEX ASSOCIATED WITH ANY TESTSTAND QUARTER (TQ)
; FILE 11=HOLDS ALL ENTITIES ASSOCIATED WITH ONE TQ, 1<=11<=28
; FILE 29=OVERFLOW IF XX(35)= 7
; FILE 30=ALL ENTITIES FOR ALL YEARS AT NODE ALLP
; FILE 31=INPUT FILE FOR PAYLOAD TRANSPORTS AT NODE PYLD
; FILE 32=DUPlicated INPUT FILE, A GATE

; XX(11)=TOTAL AMOUNT OF CBE CURRENTLY IN TQ 11, 1<=11<=28
; XX(31)=1, IF RULE NO. 1, 1<=I<=8, SET BY USER IN INTLC IS IN EFFECT
; XX(32)=TOTAL NO. OF RUNS DESIRED, SET BY USER IN INTLC
; XX(33)=CURRENT NUMBER OF RUNS COMPLETED NOW (XX(33)=0 IN INTLC)
; XX(34)=TOTAL NO. ENTITIES IN FILE 30 (NOT COUNTING A1=0 ENTITIES)
; XX(35)=TOTAL NO. OF TESTSTANDS BEING ModeLED (1<=XX(35)<=7)
; XX(36)=CURRENT YEAR BEING ModeLED (SET TO XX(37) IN INTLC)
; XX(37)=FIRST YEAR TO IN THE SEQUENCE
; XX(38)=LAST YEAR TO IN SEQUENCE
; ATRIB(1)=MISSION # (A1=0,A5=1000 FOR LAST ENTITY)
; (2)=YEAR OF PAYLOAD
; (3)=NOT USED
; (4)=CBE VALUE
; (5)=RANDOM NO. FOR SHUFFLING INPUT DATA FOR SUCCESSIVE RUNS
; (6)=FILE NUMBER FOR FILING ENTITIES INTO APPROPRIATE TQ
; (7)=0, DOWNFLOW; 1, LAUNCH
; (8)=0, NONHAZARDOUS; 1, HAZARDOUS
; (9)=0, LOW INCLINATION ORBIT; 1, POLAR ORBIT
; (10)=1, IF ENTITY AT NODE SA10 SATISFIES RULE ASSOCIATED
; WITH XX(31), SS(11), FOR FILING AT II
; =0, IF ENTITY DOES NOT SATISFY RULE FOR FILE 11 AT NODE SA10
; SS(11)=1,2,...,8, DEPENDING UPON VALUE OF XX(31) AND ATRIBS 7,8,9
; FOR FILE 11 (SET AT NODE STSS)

; RULE 1 = SEGREGATE ON A7,A8,A9 RULE 5=SEGREGATE ON A9 ONLY
; RULE 2 = ON A8,A9 RULE 6= ON A8 ONLY
; RULE 3 = ON A7, A9 RULE 7= ON A7 ONLY
;RULE 4 = ON A7,A8  RULE 8= NO SEGREGATION

;INTLC,XX(31)=7,XX(32)=5,XX(33)=0,XX(34)=8,XX(35)=7;
INTLC,XX(36)=1992,XX(37)=1992,XX(38)=2001;

NETWORK;
RES/PYLDXPR(0),31; FOR PAYLOAD XPRTS FOR YEAR IN PROCESS
RES/ALLPYLDS(1),30; FOR ALL PYLD XPRTS FOR ALL YEARS
GAT/DUPGATE,CLOSED,32;
RES/TQ1(0),1;
RES/TQ2(0),2;
RES/TQ3(0),3;
RES/TQ4(0),4;
RES/TQ5(0),5;
RES/TQ6(0),6;
RES/TQ7(0),7;
RES/TQ8(0),8;
RES/TQ9(0),9;
RES/TQ10(0),10;
RES/TQ11(0),11;
RES/TQ12(0),12;
RES/TQ13(0),13;
RES/TQ14(0),14;
RES/TQ15(0),15;
RES/TQ16(0),16;
RES/TQ17(0),17;
RES/TQ18(0),18;
RES/TQ19(0),19;
RES/TQ20(0),20;
RES/TQ21(0),21;
RES/TQ22(0),22;
RES/TQ23(0),23;
RES/TQ24(0),24;
RES/TQ25(0),25;
RES/TQ26(0),26;
RES/TQ27(0),27;
RES/TQ28(0),28;
RES/MORETSDS(0),29;
ALLP AWAIT(30),ALLPYLDS/1,2; M=2
ACT,,XX(36).GE.ATRIB(2),PYLD;
ACT,,XX(36).GE.ATRIB(2),NXTY;
ACT,,ALLP;
ACT,,NEXT;
NXTY FREE,ALLPYLDS/1;
T1 TERM;

PYLD AWAIT(31),PYLDXPR(1,2; M=2
ACT,,ATRIB(1).EQ.0.,DUPG;LAST ENTITY 4 ALL RUNS HAS A1,A5 SET
ACT,,ATRIB(1).GT.0,110;
ACT,,ATRIB(1).EQ.0,PRNT;
ACT,,ARAN;
ARAN ASS,ATRIB(5)=DRAND;
DUPG AWAIT(32),DUPGATE;
ACT,,PYLD;
FRNT EVENT,3,1;JEVTN=3,PRINT OUT FILES,XX(33)=XX(33)+1
ACT,,XX(33).GE.XX(32),ENDY;
ACT,.01,,OPND;DELAY OPENING SO ZERO TIME ACTIVS COMPLETED
OPND OPEN,DUPGATE;
ACT,.01,,NEXT;
A.

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  I10  ASS,II=0;
127  GO  GOON;
128  I1P1  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,,GO;
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.0,A1; ENTITY MATCHES RULE FOR II
140  ACT,,ATRIB(10).EQ.0,GO; 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  EVENT,1,1; JEVNT=1, SET SS(II) BASED ON XX(31) RULE NUMBER
152  TERM;
153  ENDENETWORK;
154  INIT,0,20.;
155  ;ONTR,TRACE,1.5,3.,25,33,-36,-37,-38;
156  ;NT/30,1,1993,0.,24,1,0,0,1000; A7=A8=A9=0
157  ;NT/30,2,1993,0.,24,5,0,0,1; A7=8=A9=1
158  ;NT/30,3,1993,0,60,3,0,1,0; 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/30,9,1993,0,0,1000.; LAST ENTRY IN FILE 30
165  ;NT/30,1,1994,0,72,1,0,0,0,0;1ST ENTRY OF 1994
166  ;NT/30,2,1994,0,52,2,0,0,1;
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;
ENT/30,0,1998,0,0,1000;
ENT/30,0,1999,0,0,1000;
ENT/30,0,2000,0,0,1000;
ENT/30,0,2001,0,0,1600;
ENT/30,0,2002,0,0,1000; LAST DUMMY ENTRY FOR LAST YEAR + (1)

BEGINNING OF ACTUAL DATA FOR 1992 TO 2001

ENT/30,1,1992,0,.114,0,0,1,0,0; ASSUME A5=DRAND # =0 FOR INITIAL DATA

ENT/30,1,1994,0,.114,0,0,0,0,0;
ENT/30,4,1993,0,.148,0,0,1,0,0;
ENT/30,4,1995,0,.148,0,0,1,0,0;
ENT/30,4,1995,0,.074,0,0,0,0,0;
ENT/30,4,1997,0,.148,0,0,1,0,0;
ENT/30,4,1997,0,.074,0,0,0,0,0;
ENT/30,4,1999,0,.148,0,0,1,0,0;
ENT/30,4,1999,0,.074,0,0,0,0,0;
ENT/30,4,2001,0,.148,0,0,1,0,0;
ENT/30,4,2001,0,.074,0,0,0,0,0;

ENT/30,6,1995,0,.119,0,0,1,0,0;
ENT/30,6,1998,0,.0185,0,0,1,0,0;
ENT/30,6,1998,0,.0185,0,0,0,0,0;
ENT/30,7,1995,0,.185,0,0,1,0,0;
ENT/30,7,1996,0,.056,0,0,1,0,0;
ENT/30,8,1996,0,.056,0,0,1,0,0;
ENT/30,8,1997,0,.119,0,0,0,0,0;
ENT/30,11,1993,0,.167,0,0,1,0,0;
ENT/30,11,1996,0,.085,0,0,1,0,0;
ENT/30,11,1996,0,.085,0,0,1,0,0;
ENT/30,20,1997,0,.111,0,0,1,0,0; POLAR FOR MISSION 8
ENT/30,20,1997,0,.111,0,0,1,0,0; CBE=1
ENT/30,20,1999,0,.074,0,0,1,0,0; CBE=1
ENT/30,20,1999,0,.004,0,0,1,0,0;

FROM MISSION 11 (2ND PAGE OF DATA)

ENT/30,11,1993,0,.463,0,0,1,0,0;
ENT/30,11,1996,0,.056,0,0,1,0,0;
ENT/30,11,1999,0,.056,0,0,1,0,0;
ENT/30,13,1993,0,.581,0,0,0,0,0;
ENT/30,16,1994,0,.111,0,0,1,0,0;
ENT/30,16,1997,0,.111,0,0,1,0,0;
ENT/30,16,1997,0,.111,0,0,1,0,0;
ENT/30,16,1999,0,.074,0,0,1,0,0; CBE=1
ENT/30,16,2000,0,.004,0,0,1,0,0;
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ENT/30,20,1999,0,.004,0,0,1,0,0;

ENT/30,20,2001,0,.074,0,0,1,0,0;
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<td>03</td>
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</tbody>
</table>

**Note:** The table above lists entries from 1993 to 2000.
END OF DATA FOR MISSIONS SAAX 1,4,6,7,8,11,13,16,20,22
SOME MISSIONS WERE SKIPPED DUE TO UNCLEAR, INCORRECT OR INSUFFICIENT DATA.
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 (IPR): YES
PRINT SUMMARY REPORT (ISMR): YES

LIMITS ON FILES

MAXIMUM NUMBER OF USER FILES (MFILS): 32
MAXIMUM NUMBER OF USER ATTRIBUTES (MATR): 10
MAXIMUM NUMBER OF CONCURRENT ENTRIES (MNTRY): 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
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<td>Number of DD Equations (NNEQD):</td>
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<td>Number of SS Equations (NNEQS):</td>
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<td>Minimum Step Size (DTMIN):</td>
</tr>
<tr>
<td>Maximum Step Size (DTMAX):</td>
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<tr>
<td>Time Between Save Points (DTSAV):</td>
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<td>Accuracy Error Specification (LLERR): WARNING</td>
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<td>Absolute Error Limit (AAERR):</td>
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<td>Relative Error Limit (RRERR):</td>
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<tr>
<td>Plot/Table Number 1</td>
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<tr>
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</tr>
<tr>
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<td>Data Storage Unit: TAPE/DISC 11</td>
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<td>Data Output Format: PLOT AND TABLE</td>
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<tr>
<td>Starting Time of Plot (TTSRT): 0.0000E+00</td>
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<tr>
<td>Ending Time of Plot (TTEND): 0.2000E+02</td>
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<tr>
<td>Data Points at Events (KKEVT): NO</td>
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<table>
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<td>Variable Sym Identifier</td>
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<tr>
<td>SS(21) L MIN # PLXP TO SSVALUE IS 0.0E+00 VALUE IS 0.1E+03</td>
</tr>
<tr>
<td>SS(22) H MAX PLXP TO SS VALUE IS 0.0E+00 VALUE IS 0.1E+03</td>
</tr>
<tr>
<td>SS(23) A AVG PLXP TO SS VALUE IS 0.0E+00 VALUE IS 0.1E+03</td>
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<td>Data Points at Events (KKEVT): NO</td>
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<tr>
<td>SS(24) L MIN PLXP FM SS VALUE IS 0.0E+00 VALUE IS 0.1E+03</td>
</tr>
<tr>
<td>SS(25) H MAX PLXP FM SS VALUE IS 0.0E+00 VALUE IS 0.1E+03</td>
</tr>
<tr>
<td>SS(26) A AVG PLXP FM SS VALUE IS 0.0E+00 VALUE IS 0.1E+03</td>
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| 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

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<thead>
<tr>
<th>VARIABLE SYM IDENTIFIER</th>
<th>LOW ORD VALUE</th>
<th>HIGH ORD VALUE</th>
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<tbody>
<tr>
<td>SS( 27) L MIN CBE TO SS</td>
<td>VALUE IS 0.0E+00 VALUE IS 0.1E+03</td>
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<tr>
<td>SS( 28) H MAX CBE TO SS</td>
<td>VALUE IS 0.0E+00 VALUE IS 0.1E+03</td>
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</tr>
<tr>
<td>SS( 29) A AVG CBE TO SS</td>
<td>VALUE IS 0.0E+00 VALUE IS 0.1E+03</td>
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</table>

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

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<thead>
<tr>
<th>VARIABLE SYM IDENTIFIER</th>
<th>LOW ORD VALUE</th>
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<tr>
<td>SS( 31) H MAX TQS NEEDED</td>
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<td>SS( 32) A AVG TQS NEEDED</td>
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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

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<tr>
<td>SS( 34) H MAX TQS NEEDED</td>
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<td>SS( 35) A AVG TQS NEEDED</td>
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RANDOM NUMBER STREAMS

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</tr>
<tr>
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<td>1954324947</td>
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<tr>
<td>3</td>
<td>1145661099</td>
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<td>10</td>
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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

<p>| | |</p>
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<tr>
<td>DIMENSION OF NSET/QSET (NNSET):</td>
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<td>WORDS ALLOCATED TO INDEXED LIST TAGS:</td>
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<td>WORDS AVAILABLE FOR PLOTS/TABLES:</td>
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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 = 22. 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.

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 = 0.451

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 = 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 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 = 0.110 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.
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 = 22. 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 = 22. 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 = 22. 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= 0.119 U.1,D.0 = 1. H.1,NH.0 = 0. P.1,NP.0 = 0.

FOR ENTRY NO. 6
MISSION = 22. 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 = 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 = 0.410

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.  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 = 22. 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 = 22. 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 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

TOTAL CBE VALUE FOR YEAR 1998 = 0.732

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.
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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 = 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 1 = 0.420

FOR TESTSTAND-QUARTER NO. 2

FOR ENTRY NO. 1
MISSION = 22. CBE= 0.033 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.

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

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 = 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 = 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.
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
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<td>0.2001E+04</td>
<td>+L</td>
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<td>+L</td>
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OUTPUT CONSISTS OF 10 POINT SETS (30 POINTS)

**Table Number 2**
RUN NUMBER 1

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<tr>
<th>YEAR OF PAYLOAD</th>
<th>MIN PLXP SS</th>
<th>MAX PLXP SS</th>
<th>AVG PLXP SS</th>
</tr>
</thead>
<tbody>
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</table>

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

SCALES OF PLOT
L=MIN PLXP FM 0.000E+00 0.500E+02 0.100E+03
H=MAX PLXP FM 0.000E+00 0.500E+02 0.100E+03
A=AVG PLXP FM 0.000E+00 0.500E+02 0.100E+03

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 3**

**RUN NUMBER 1**

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>MIN CBE TO SS</th>
<th>MAX CBE TO SS</th>
<th>AVG CBE TO SS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1992E+04</td>
<td>0.2810E+00</td>
<td>0.2810E+00</td>
<td>0.2810E+00</td>
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<tr>
<td>0.1993E+04</td>
<td>0.9510E+00</td>
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<td>0.1995E+04</td>
<td>0.9490E+00</td>
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<td>0.1996E+04</td>
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<td>0.4020E+00</td>
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<td>0.4570E+00</td>
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</table>

MINIMUM 0.2810E+00 0.2810E+00 0.2810E+00

MAXIMUM 0.2651E+01 0.2651E+01 0.2651E+01

**TABLE NUMBER 4**

**RUN NUMBER 1**

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>MIN CBE FROM SS</th>
<th>MAX CBE FROM SS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1992E+04</td>
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<td>0.0000E+00</td>
</tr>
<tr>
<td>0.1993E+04</td>
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<td>0.5610E+00</td>
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**PLOT NUMBER 3**

**RUN NUMBER 1**

**Scales of Plot**

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

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

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**

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>MIN CBE FROM SS</th>
<th>MAX CBE FROM SS</th>
<th>AVG CBE FROM SS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1992E+04</td>
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<td>0.0000E+00</td>
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</table>
**PLOT NUMBER 4**

**RUN NUMBER 1**

**SCALES OF PLOT**

L=MIN CBE FM SO.000E+00
H=MAX CBE FM SO.000E+00
A=AVG CBE FM SO.000E+00

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

YEAR OF PAYLOAD

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>MIN TQS</th>
<th>MAX TQS</th>
<th>AVG TQS</th>
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</table>

**MINIMUM** | 0.1000E+01 | 0.1000E+01 | 0.1000E+01

**MAXIMUM** | 0.1970E+00 | 0.1970E+00 | 0.1970E+00

**OUTPUT CONSISTS OF 10 POINT SETS (30 POINTS)**

**TABLE NUMBER 5**

**RUN NUMBER 1**

<table>
<thead>
<tr>
<th>YEAR OF PAYLOAD</th>
<th>MIN TQS</th>
<th>MAX TQS</th>
<th>AVG TQS</th>
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<td>0.1992E+04</td>
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**MINIMUM** | 0.1000E+01 | 0.1000E+01 | 0.1000E+01

**MAXIMUM** | 0.9170E+00 | 0.9170E+00 | 0.9170E+00
MAXIMUM 0.4000E+01 0.4000E+01 0.4000E+01

**PLOT NUMBER 5**

RUN NUMBER 1

| SCALES OF PLOT |          |          |          |
| L=MIN TQS NEED0.000E+00 | 0.500E+01 | 0.100E+02 |
| H=MAX TQS NEED0.000E+00 | 0.500E+01 | 0.100E+02 |
| A=AVERAGE TQS NEED0.000E+00 | 0.500E+01 | 0.100E+02 |

YEAR OF PAYLOAD

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<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
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<th>80</th>
<th>90</th>
<th>100</th>
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<td>+</td>
<td>L</td>
</tr>
</tbody>
</table>

YEAR OF PAYLOAD

OUTPUT CONSISTS OF 10 POINT SETS (30 POINTS)