APPENDIX D

PREDA (PREDA.FOR) PROGRAM FILE

```
0         1         2         3         4         5         6         7
12345678901234567890123456789012345678901234567890123456789012345678901234567

C     PROGRAM PREDA5X.FORT                                                    1.
C      PREPARES INPUT DATA FOR DARTAB CODE.                                   2.
C      SEARCHES DOSE RATE-HEALTH RISK DATA SET FOR AVAILABLE NUCLIDES         3.
C      AND ORGANS, FINDS CORRESPONDING NUCLIDES IN AIRDOS DATA SET.           4.
C      THESE MATCHING NUCLIDES,ORGAN NAMES, AND REST OF DATA NECESSARY        5.
C      FOR DARTAB INPUT ARE WRITTEN AS A TEMPORARY DATA SET ON DISK.          6.
C     MODIFIED FOR SPECIAL CASE INHALATION VALUES OF F1. 11/28/83             7.
C     REVISED AND CORRECTED.                              12/31/83            8.
C    REVISED AND CORRECTED                                05/29/84            9.
C                                                                            10.
      REAL*8 NUCAIR,NUC,ORGN,CANC,ORGB,TOTBOD,                               11.
     > NUCOLD,RNLOC,OGLOC,GEN                                                12.
      LOGICAL OUTPUT,GENEFF,EOF,PASS                                         13.
      LOGICAL*1 NUCL1(8),NUCL(4),NUCL4,LBL                                   14.
      EQUIVALENCE (NUCL1(1),NUC),(NUCL(1),NUCI),(NUCL(4),NUCL4)              15.
      REAL LLET                                                              16.
      INTEGER PTLOC,FALOC,HLLOC,RTABLE,FTABLE,DTABLE,FIND                    17.
      DIMENSION TITLE(20),DTABLE(7),FTABLE(7),RTABLE(7),TIME(20),            18.
     > HLET(20),LLET(20), RELABS(20),ORGN(20),CANC(20), ORGB(20),            19.
     > OING(25),OINH(25),ORGDAT(20),IPATH(20),                               20.
     > NUCAIR(40),GI(4), GIABS(4,40),ILET(2), RNLOC(10),                     21.
     > OGLOC(10),PTLOC(10),FALOC(10),HLLOC(10), LTABLE(10),GEN(3),           22.
     > GRFAC(2),GLLET(3),GHLET(3), FIND(40,13),RLIST(5),SSIZE(40),           23.
     > SRESP(40),SGIABS(4,40), IFIND(13),PSIZN(40),RESPN(40),IRSP(4,4)       24.
      DATA FIND/520*0/,IFIND/2,3,4,5,12,13,14,15,33,96,97,98,99/, RLIST/     25.
     > 1HY,1HW,1HD,1H*,1H /,NUCOLD/8H        /,STAR/4H*   /                  26.
      DATA TOTBOD/8HT BODY  /,NUCI/0/,NBL1/Z40/,DLM1/2H '/,DLM2/2H',/        27.
      DATA LBL/1H /,IRSP/1,2,3,4,2,1,3,4,3,2,1,4,4,3,2,1/,EOF/F/,PASS/T/     28.
      NAMELIST/INPUT/ILOC,JLOC,PLOC,ILET,DTABLE,RTABLE,FTABLE,               29.
     > OUTPUT,GSCFAC,ICRP,IHEAD                                              30.
      NAMELIST/GENTIC/GENEFF,GEN,NGEN,GRFAC,REPPER,GLLET,GHLET               31.
      NAMELIST/ORGAN/ORGN,NORGN,TIME                                         32.
      NAMELIST/QFACTR/HLET,LLET                                              33.
      NAMELIST/CANCER/CANC,NCANC,RELABS                                      34.
      NAMELIST/LOCTBL/NTLOC,RNLOC,OGLOC,PTLOC,FALOC,HLLOC,LTABLE             35.
      NAMELIST/ORGANF/NORGB,ORGB,ORGDAT,IPATH                                36.
C                                                                            37.
C                                                                            38.
C     READ TITLE,SET DEFAULT VALUES                                          39.
C                                                                            40.
      READ(5,10800) TITLE                                                    41.
      WRITE(6,10810) TITLE                                                   42.
      ILOC=0                                                                 43.
      JLOC=0                                                                 44.
      PLOC=100.                                                              45.
```

PREDA (PREDA.FOR) Program File
(continued)

```
0        1         2         3         4         5         6         7
12345678901234567890123456789012345678901234567890123456789012345678901234567

      NORGN=0                                                              46.
      NCANC=1                                                              47.
      CANC(1)=TOTBOD                                                       48.
      DO 10 J=1,7                                                          49.
      DTABLE(J)=0                                                          50.
      RTABLE(J)=0                                                          51.
      FTABLE(J)=0                                                          52.
   10 CONTINUE                                                             53.
      RTABLE(6)=4                                                          54.
      GSCFAC=0.5                                                           55.
      ILET(1)=1                                                            56.
      ILET(2)=1                                                            57.
      ICRP=1                                                               58.
      IHEAD=1                                                              59.
      DO 20 J=1,20                                                         60.
      TIME(J)=70.                                                          61.
      HLET(J)=20.                                                          62.
      LLET(J)=1.                                                           63.
      RELABS(J)=1.                                                         64.
   20 CONTINUE                                                             65.
      NGEN=0                                                               66.
      GENEFF=.FALSE.                                                       67.
C                                                                          68.
C     READ NAMELIST VARIABLES                                              69.
C                                                                          70.
   22 READ(5,INPUT,END=22)                                                 71.
      READ(5,ORGAN)                                                        72.
      READ(5,QFACTR)                                                       73.
      READ(5,CANCER)                                                       74.
      READ(5,GENTIC)                                                       75.
      READ(5,LOCTBL)                                                       76.
      READ(5,ORGANF)                                                       77.
C                                                                          78.
C     READ AND SAVE NUCLIDE NAME  FROM AIRDOS DATA SET (UNIT 26)           79.
C                                                                          80.
      DO 90 I=1,1000                                                       81.
      READ(26,END=100) NUC,SIZE,RSP,GI,TIM,IND                             82.
      IF (I.LE.40) GO TO 30                                                83.
      IF (I.EQ.41) WRITE(6,10000)                                          84.
      WRITE(6,10100) NUC,SIZE,RSP,GI,IND                                   85.
      GO TO 70                                                             86.
   30 M=I                                                                  87.
      NUCL4=NUCL1(1)                                                       88.
      WRITE(6,10100) NUC,SIZE,RSP,GI,IND                                   89.
      IF (NUCI.NE.NBL1) GO TO 50                                           90.
      DO 40 J=1,7                                                          91.
```

PREDA (PREDA.FOR) Program File
(continued)

```
0        1         2         3         4         5         6         7
12345678901234567890123456789012345678901234567890123456789012345678901234567
   40 NUCL1(J)=NUCL1(J+1)                                                    92.
      NUCL1(8)=LBL                                                           93.
   50 NUCAIR(M)=NUC                                                          94.
      PSIZN(M)=SIZE                                                          95.
      RESPN(M)=RSP                                                           96.
      IF(RESPN(M).EQ.STAR) PSIZN(M)=0.                                       97.
      DO 60 J=1,4                                                            98.
   60 GIABS(J,M)=0.0                                                         99.
      IF(GI(1).GT.1.) GIABS(1,M)=GI(1)                                      100.
      GIABS(2,M)=GI(2)                                                      101.
   70 READ(26) NOL,NOU,NRL,NRU                                              102.
      DO 80 ILO=NOL,NOU                                                     103.
      DO 80 JLO=NRL,NRU                                                     104.
   80 READ(26)                                                              105.
      IF (IND.EQ.1) READ(26)                                                106.
   90 CONTINUE                                                              107.
  100 MNUC=M                                                                108.
C                                                                           109.
C     READ NUCLIDE NAMES,INFORMATION FROM DOSE RATE-HEALTH RISK             110.
C     DATA SET (UNIT 25). SAVE THOSE WHICH CORRESPOND WITH AIRDOS           111.
C     NUCLIDES.                                                             112.
C                                                                           113.
  110 READ(25,END=112) NUC,SIZE,RSP,GI,TIM,IND                              114.
      GO TO 114                                                             115.
  112 EOF=.TRUE.                                                            116.
      GO TO 116                                                             117.
  114 IF(NUC.EQ.NUCOLD) GO TO 166                                           118.
  116 IF(PASS) GO TO 160                                                    119.
      DO 150 M=1,MNUC                                                       120.
      IF(NUCOLD.NE.NUCAIR(M)) GO TO 150                                     121.
C     CHECK INHALATION FACTOR RESPN                                         122.
      DO 118 L=1,4                                                          123.
      IF(RESPN(M).EQ.RLIST(L)) GO TO 120                                    124.
  118 CONTINUE                                                              125.
      L=1                                                                   126.
  120 LM=L                                                                  127.
C     FIND BEST MATCH FOR RESPN AND PSIZN IN RADRISK FILE                   128.
      IF(NFINH.EQ.0) GO TO 140                                              129.
      PSIZE=9E9                                                             130.
      DO 124 L=1,4                                                          131.
      RESP=RLIST(IRSP(L,LM))                                                132.
      DO 122 K=1,NFINH                                                      133.
      IF(SRESP(K).NE.RESP) GO TO 122                                        134.
      IF(ABS(SSIZE(K)-PSIZN(M)).LT.ABS(PSIZE-PSIZN(M))) PSIZE=SSIZE(K)      135.
  122 CONTINUE                                                              136.
      IF(PSIZE.NE.9E9) GO TO 126                                            137.
```

```
0         1         2         3         4         5         6         7
1234567890123456789012345678901234567890123456789012345678901234567890123456

  124 CONTINUE
  126 IF(RESP.EQ.RESPN(M).AND.
     &   ABS(PSIZE-PSIZN(M)).LE.1E-2*PSIZN(M)) GO TO 128
      WRITE(6,10200) NUCAIR(M),PSIZN(M),PSIZE,RESPN(M),RESP
  128 RESPN(M)=RESP
      PSIZN(M)=PSIZE
C     FIND BEST MATCH FOR GIABS IN RADRISK FILE
  140 IF(NFING.EQ.0) GO TO 150
      GI2=9E9
      DO 142 K=1,NFING
      IF(ABS(SGIABS(2,K)-GIABS(2,M)).GE.ABS(GI2-GIABS(2,M))) GO TO 142
      KM=K
      GI2=SGIABS(2,K)
  142 CONTINUE
      IF(ABS(GI2-GIABS(2,M)).LT.1E-2*GIABS(2,M)) GO TO 144
      WRITE(6,10300) NUCAIR(M),(GIABS(I,M),I=1,4),
     &               GIABS(1,M),(SGIABS(I,KM),I=2,4)
  144 DO 146 I=2,4
  146 GIABS(I,M)=SGIABS(I,KM)
  150 CONTINUE
  160 IF(EOF) GO TO 430
C     OBTAIN INGESTION AND INHALATION PARAMETERS FOR NEXT NUCLIDE
      NUCOLD=NUC
      NFING=0
      NFINH=0
      PASS=.TRUE.
      DO 162 M=1,MNUC
      IF(NUC.EQ.NUCAIR(M)) GO TO 164
  162 CONTINUE
      GO TO 166
  164 PASS=.FALSE.
  166 READ(25)
      READ(25)
      IF(IND.LT.10.OR.IND.GE.90) GO TO 168
      READ(25)
      READ(25)
  168 IF(PASS) GO TO 110
      IF((IND.EQ.2.OR.IND.EQ.3).AND.ABS(TIM-70.).GE.0.7) GO TO 110
      IN=MOD(IND-1,10)+1
      IF (IND.GE.90) IN=11-IN
      GO TO (320,330,350,370,380),IN
  320 WRITE(6,10400) NUC,IND
      GO TO 420
C     INGESTION FACTORS
  330 IF(NFING.EQ.0) GO TO 334
      DO 332 I=1,NFING
```

```
0         1         2         3         4         5         6         7
1234567890123456789012345678901234567890123456789012345678901234567890123456

      IF(SGIABS(2,I).EQ.GI(2)) GO TO 390                                184.
  332 CONTINUE                                                          185.
  334 NFING=NFING+1                                                     186.
      DO 336 I=1,4                                                      187.
  336 SGIABS(I,NFING)=GI(I)                                             188.
      GO TO 390                                                         189.
C     INHALATION FACTORS                                                190.
  350 IF(NFINH.EQ.0) GO TO 354                                          191.
      DO 352 I=1,NFINH                                                  192.
      IF(SRESP(I).EQ.RSP.AND.SSIZE(I).EQ.SIZE) GO TO 390                193.
  352 CONTINUE                                                          194.
  354 NFINH=NFINH+1                                                     195.
      SRESP(NFINH)=RSP                                                  196.
      SSIZE(NFINH)=SIZE                                                 197.
      GO TO 390                                                         198.
C     AIR IMMERSION FACTORS                                             199.
  370 GO TO 390                                                         200.
C     GROUND SURFACE FACTORS                                            201.
  380 GO TO 390                                                         202.
C                                                                       203.
  390 DO 400 J=1,13                                                     204.
      IF (IND.EQ.IFIND(J)) GO TO 410                                    205.
  400 CONTINUE                                                          206.
      WRITE(6,10500) IND                                                207.
  410 FIND(M,J)=FIND(M,J)+1                                             208.
  420 GO TO 110                                                         209.
C                                                                       210.
  430 WRITE(6,10600)                                                    211.
      DO 450 M=1,MNUC                                                   212.
      WRITE(6,10700) M,NUCAIR(M),RESPN(M),PSIZN(M),(GIABS(I,M),I=1,4),  213.
     > (FIND(M,I),I=1,13)                                               214.
  450 CONTINUE                                                          215.
C                                                                       216.
      NONCLD=MNUC                                                       217.
C                                                                       218.
C     WRITE ALL INPUT REQUIRED BY DARTAB ONTO SPDA (UNIT 30)            219.
C                                                                       220.
C     WRITE TITLE                                                       221.
C                                                                       222.
      WRITE(30,10800) TITLE                                             223.
      WRITE(6,10810) TITLE                                              224.
C     WRITE INPUT INFORMATION TO BE READ BY DARTAB AS NAMELIST/INPUT/.  225.
C                                                                       226.
      WRITE(30,10900) ILOC,JLOC,PLOC,ILET,DTABLE,RTABLE,FTABLE,         227.
     >  OUTPUT,GSCFAC,ICRP,IHEAD                                        228.
      WRITE(6,10900) ILOC,JLOC,PLOC,ILET,DTABLE,RTABLE,FTABLE,          229.
```

```
0         1         2         3         4         5         6         7
12345678901234567890123456789012345678901234567890123456789012345678901234567

     >  OUTPUT,GSCFAC,ICRP,IHEAD                                          230.
C      WRITE ORGAN INFORMATION TO BE READ BY DARTAB AS NAMELIST/ORGAN/.   231.
C                                                                         232.
       WRITE(30,11000) NORGN,(DLM1,ORGN(N),DLM2,N=1,NORGN)                233.
       WRITE(6,11000) NORGN,(DLM1,ORGN(N),DLM2,N=1,NORGN)                 234.
       WRITE(30,11100) (TIME(N),N=1,NORGN)                                235.
       WRITE(6,11100) (TIME(N),N=1,NORGN)                                 236.
       WRITE(30,11200)                                                    237.
       WRITE(6,11200)                                                     238.
C      WRITE DOSE EQUIVALENT FACTOR INFORMATION TO BE READ BY             239.
C      DARTAB AS NAMELIST/QFACTR/.                                        240.
C                                                                         241.
       IF (ILET(1).EQ.0) GO TO 460                                        242.
       WRITE(30,11210) HLET                                               243.
       WRITE(6,11210) HLET                                                244.
       WRITE(30,11220) LLET                                               245.
       WRITE(6,11220) LLET                                                246.
       WRITE(30,11200)                                                    247.
       WRITE(6,11200)                                                     248.
C      WRITE CANCER INFORMATION TO BE READ BY DARTAB AS NAMELIST/CANCER/.  249.
C                                                                         250.
  460  WRITE(30,11500) NCANC,(DLM1,CANC(N),DLM2,N=1,NCANC)                251.
       WRITE(6,11500) NCANC,(DLM1,CANC(N),DLM2,N=1,NCANC)                 252.
       WRITE(30,11600) (RELABS(N),N=1,NCANC)                              253.
       WRITE(6,11600) (RELABS(N),N=1,NCANC)                               254.
       WRITE(30,11200)                                                    255.
       WRITE(6,11200)                                                     256.
       WRITE(30,11300) GENEFF,NGEN,(DLM1,GEN(I),DLM2,I=1,NGEN)            257.
       WRITE(30,11400) GRFAC,REPPER,GLLET,GHLET                           258.
       WRITE(6,11300) GENEFF,NGEN,(DLM1,GEN(I),DLM2,I=1,NGEN)             259.
       WRITE(6,11400) GRFAC,REPPER,GLLET,GHLET                            260.
       WRITE(30,11200)                                                    261.
       WRITE(6,11200)                                                     262.
C      WRITE NUCLIDE INFORMATION TO BE READ BY DARTAB AS NAMELIST/RNUCLD/ 263.
C                                                                         264.
       WRITE(30,11700) NONCLD,(DLM1,NUCAIR(N),DLM2,N=1,NONCLD)            265.
       WRITE(6,11700) NONCLD,(DLM1,NUCAIR(N),DLM2,N=1,NONCLD)             266.
       WRITE(30,11800) (PSIZN(N),N=1,NONCLD)                              267.
       WRITE(6,11800) (PSIZN(N),N=1,NONCLD)                               268.
       WRITE(30,11900) (DLM1,RESPN(N),DLM2,N=1,NONCLD)                    269.
       WRITE(6,11900) (DLM1,RESPN(N),DLM2,N=1,NONCLD)                     270.
       WRITE(30,12000) ((GIABS(I,N),I=1,4),N=1,NONCLD)                    271.
       WRITE(6,12000) ((GIABS(I,N),I=1,4),N=1,NONCLD)                     272.
       WRITE(30,11200)                                                    273.
       WRITE(6,11200)                                                     274.
C      WRITE LOCATION TABLE INFORMATION TO BE READ BY DARTAB              275.
```

```
0        1         2         3         4         5         6         7
12345678901234567890123456789012345678901234567890123456789012345678901234567
C      AS NAMELIST/LOCTBL/.                                                    276.
C                                                                              277.
      WRITE(30,12100) NTLOC,(DLM1,RNLOC(N),DLM2,N=1,NTLOC)                     278.
      WRITE(6,12100) NTLOC,(DLM1,RNLOC(N),DLM2,N=1,NTLOC)                      279.
      WRITE(30,12200) (DLM1,OGLOC(N),DLM2,N=1,NTLOC)                           280.
      WRITE(6,12200) (DLM1,OGLOC(N),DLM2,N=1,NTLOC)                            281.
      WRITE(30,12300) (PTLOC(N),N=1,NTLOC)                                     282.
      WRITE(6,12300) (PTLOC(N),N=1,NTLOC)                                      283.
      WRITE(30,12400) (FALOC(N),N=1,NTLOC)                                     284.
      WRITE(6,12400) (FALOC(N),N=1,NTLOC)                                      285.
      WRITE(30,12500) (HLLOC(N),N=1,NTLOC)                                     286.
      WRITE(6,12500) (HLLOC(N),N=1,NTLOC)                                      287.
      WRITE(30,12600) (LTABLE(N),N=1,NTLOC)                                    288.
      WRITE(6,12600) (LTABLE(N),N=1,NTLOC)                                     289.
      WRITE(30,11200)                                                          290.
      WRITE(6,11200)                                                           291.
C     WRITE ORGAN DOSE WEIGHTING FACTOR  TO BE READ BY DARTAB                  292.
C      AS NAMELIST/ORGANF/.                                                    293.
C                                                                              294.
      WRITE(30,12700) NORGB,(DLM1,ORGB(N),DLM2,N=1,NORGB)                      295.
      WRITE(6,12700) NORGB,(DLM1,ORGB(N),DLM2,N=1,NORGB)                       296.
      WRITE(30,12800) (IPATH(N),N=1,NORGB)                                     297.
      WRITE(6,12800) (IPATH(N),N=1,NORGB)                                      298.
      WRITE(30,12900) (ORGDAT(N),N=1,NORGB)                                    299.
      WRITE(6,12900) (ORGDAT(N),N=1,NORGB)                                     300.
      WRITE(30,11200)                                                          301.
      WRITE(6,11200)                                                           302.
C                                                                              303.
C     REWIND AIRDOS (26) AND DOSE-RISK (25) DATA SETS                          304.
C     REWIND SPDA INPUT (30) DATA SET                                          305.
C                                                                              306.
      REWIND 25                                                                307.
      REWIND 26                                                                308.
      REWIND 30                                                                309.
C                                                                              310.
      STOP                                                                     311.
10000 FORMAT(1H0,'THE FOLLOWING AIRDOS NUCLIDES CANNOT BE PROCESSED:',/)       312.
10100 FORMAT(1H ,A8,1PE10.2,1X,A1,4(1PE10.2),I3)                               313.
10200 FORMAT('0***FOR NUCLIDE : ',A8/                                          314.
     > ' THE PARTICLE SIZE HAS BEEN CHANGED FROM ',F9.3,' TO ',F9.3/           315.
     > ' THE RESP CLEARANCE CLASS HAS BEEN CHANGED FROM ',A1, ' TO ',A1)       316.
10300 FORMAT('***FOR NUCLIDE : ',A8/                                           317.
     > ' THE GI ABSORPTION FACTORS HAVE BEEN CHANGED FROM',4E12.4/             318.
     > ' TO ',4E12.4)                                                          319.
10400 FORMAT(1H0,'UNDEFINED PATHWAY.  NUC=',A8,2H, ,'IND=',I2)                 320.
10500 FORMAT('**ILLEGAL INDICATOR : ',I4)                                      321.
```

```
0        1         2         3         4         5         6         7
12345678901234567890123456789012345678901234567890123456789012345678901234567

10600 FORMAT(1H0,'M    NUCAIR RESPN   PSIZN                ',                322.
     > 'GIABS(1)-GIABS(4)  INDICATORS:',                                      323.
     > '  2  3  4  5 12 13 14 15 33 96 97 98 99'/)                           324.
10700 FORMAT(1H ,I2,2X,A8,2X,A1,1X,5(1PE10.2),3X,13I3)                       325.
10800 FORMAT(20A4)                                                           326.
10810 FORMAT(1H1,20A4)                                                       327.
10900 FORMAT(1H ,'&INPUT ILOC=',I2,', JLOC=',I2,', PLOC=',F5.1,1H,/          328.
     >  1H ,'ILET=',2(I2,1H,)/                                               329.
     >  1H ,'DTABLE=',7(I2,1H,)/                                             330.
     >  1H ,'RTABLE=',7(I2,1H,)/                                             331.
     >  1H ,'FTABLE=',7(I2,1H,)/                                             332.
     >  1H ,'OUTPUT=',L1,1H,/                                                333.
     >  1H ,'GSCFAC=',F5.3,1H,/                                              334.
     >  1H ,'ICRP=',I1,', IHEAD=',I1/                                        335.
     >  1H ,'&END')                                                          336.
11000 FORMAT(1H ,'&ORGAN NORGN=',I5,1H,/1H ,'ORGN=',(T7,5(A2,A8,A2)))        337.
11100 FORMAT(1H ,'TIME=',(T7,10(F5.1,1H,)))                                  338.
11200 FORMAT(1H ,'&END')                                                     339.
11210 FORMAT(1H ,'&QFACTR'/1H ,'HLET=',(1H ,T7,10(F4.1,1H,)))                340.
11220 FORMAT(1H ,'LLET=',(1H ,T7,10(F4.1,1H,)))                              341.
11300 FORMAT(1H ,'&GENTIC GENEFF=',L1,2H, ,'NGEN=',I3,1H,/ 1H ,'GEN=',(      342.
     > T6,5(A2,A8,A2)))                                                      343.
11400 FORMAT(1H ,'GRFAC=',2(1PE10.3,1H,)/1H ,'REPPER=',0PF10.6,1H,/ 1H ,     344.
     > 'GLLET=',3(F8.2,1H,)/1H ,'GHLET=',3(F8.2,1H,))                        345.
11500 FORMAT(1H ,'&CANCER NCANC=',I5,1H,/1H ,'CANC=',(T7,5(A2,A8,A2)))       346.
11600 FORMAT(1H ,'RELABS=',(T9,10(F4.1,1H,)))                                347.
11700 FORMAT(1H ,'&RNUCLD NONCLD=',I5,1H,/ 1H ,'NUCLID=',(T9,5(A2,A8,A2)     348.
     > ))                                                                    349.
11800 FORMAT(1H ,'PSIZE=',(T8,10(F5.2,1H,)))                                 350.
11900 FORMAT(1H ,'RESP=',(T8,10(3A2)))                                       351.
12000 FORMAT(1H ,'GIABS=',(T8,4(1PE10.3,1H,)))                               352.
12100 FORMAT(1H ,'&LOCTBL NTLOC=',I5,1H,/1H ,'RNLOC=',(T8,5(A2,A8,A2)))      353.
12200 FORMAT(1H ,'OGLOC=',(T8,5(A2,A8,A2)))                                  354.
12300 FORMAT(1H ,'PTLOC=',(T8,10(I3,1H,)))                                   355.
12400 FORMAT(1H ,'FALOC=',(T8,10(I3,1H,)))                                   356.
12500 FORMAT(1H ,'HLLOC=',(T8,10(I3,1H,)))                                   357.
12600 FORMAT(1H ,'LTABLE=',(T9,10(I3,1H,)))                                  358.
12700 FORMAT(1H ,'&ORGANF NORGB=',I5,1H,/1H ,'ORGB=',(T7,5(A2,A8,A2)))       359.
12800 FORMAT(1H ,'IPATH=',(T8,10(I3,1H,)))                                   360.
12900 FORMAT(1H ,'ORGDAT=',(T9,5(F7.4,1H,)))                                 361.
      END                                                                    362.
```