APPENDIX E

SAMPLE.JCL FILE

```
Line      0         1         2         3         4         5         6         7         8
Number    12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789 0

 1        //LDP JOB (CAARRDSSP,MLDP),PERRIN,PRTY=4,TIME=(1),NOTIFY=LDP
 2        /*CNTL  LDPJOB,EXEC
 3        //*ROUTE PRINT HOLD
 4        //PROCLIB DD DSN=CAAR.PROC.LIB,DISP=SHR
 5        //*   ***** LINK EDIT OBJECT MODULES
 6        //LINK EXEC FORTVL
 7        //LKED.OBJECT DD DSN=CAAR.AIRDOS.OBJ,DISP=SHR
 8        //LKED.SYSIN DD *
 9          INCLUDE OBJECT(PREPAR2)
10          ENTRY MAIN
11          NAME PREPAR2
12          INCLUDE OBJECT(AIRDOS2)
13          ENTRY MAIN
14          NAME AIRDOSE2
15          INCLUDE OBJECT(PREDA)
16          ENTRY MAIN
17          NAME PREDA
18          INCLUDE OBJECT(DARTAB2)
19          ENTRY MAIN
20          NAME DARTAB2
21        //*   *****   PREPAR   *****
22        //PRPR EXEC FORTVG,PGMNAME=PREPAR2,GREGION=1200K,COND=(4,LT)
23        //GO.FT06F001 DD DSN=&&OUTFILE,DISP=(NEW,PASS),
31        //GO.FT34F001 DD DSN=SAMPLE.STAR,DISP=SHR
32        //GO.FT27F001 DD DSN=&&PREPAR2,DISP=(,PASS),UNIT=SYSDA,
33        //    SPACE=(TRK,(10,2)),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2960)
34        //GO.FT28F001 DD DSN=&&OUTFILE2,DISP=(NEW,PASS),UNIT=SYSDA,
35        //    SPACE=(TRK,(10,2)),DCB=(RECFM=FB,LRECL=133,BLKSIZE=5320)
36        //GO.SYSIN DD *
37         PLEASE GIVE TO ===> JIM HARDIN
38         PHONE NUMBER: 475-9610
39         JCL FILE     ===> SAMPLE.JCL
40         ALLRAD FILE  ===> ALLRAD88.DAT
41         POP FILE     ===> SAMPLE.POP
```

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Line      0         1         2         3         4         5         6         7         8
Number    12345678901234567890123456789012345678901234567890123456789012345678901234567890

 24       // UNIT=SYSDA,SPACE=(CYL,(2,1)),DCB=(RECFM=FB,LRECL=133,BLKSIZE=5320)
 25       //GO.FT21F001 DD DSN=&&FT21,UNIT=SYSDA,SPACE=(TRK,(10,1),RLSE),
 26       // DCB=(RECFM=FB,LRECL=80,BLKSIZE=2960)
 27       //GO.FT22F001 DD DSN=ALLRAD88.DAT,DISP=SHR
 28       //GO.FT24F001 DD DSN=SAMPLE.POP,DISP=SHR
 29       //GO.FT26F001 DD DSN=&&OUTDART,DISP=(NEW,PASS),
 30       // UNIT=SYSDA,SPACE=(CYL,(2,1)),DCB=(RECFM=FB,LRECL=133,BLKSIZE=5320)
 42        STARFILE     ---> SAMPLE.STAR
 43        PREDA FILE   ---> PRDPOP.DAT
 44        RADRISK FILE ---> RADRISK.BIN
 45       *
 46       ARGONNE NATIONAL LABORATORY
 47       ADDRESS
 48       ARGONNE
 49       IL
 50       ZIP CODE
 51       DOE FACILITIES
 52       YEAR
 53       OPTION
 54        &OPTI OPTION=0,1,,1,,0,0,1,1,LIPO=1,NUTB=0,NSTB=2,NNTB=0,NTTB=0,NRTB=0,
 55               TSUBB=100.,GSFAC=0.5, &END
 56       GRID
 57        &GRID NRL=1,NRU=13  &END
 58       METEOROLOGICAL DATA
 59        &METE LID=700.,RR=80.0,TA=10.0 &END
 60       PHYSICAL STACK DATA
 61       1
 63        &PHYS PH=61.0, VEL=0 &END
 64       WIND FREQUENCY DATA
 65       STAR
 66       DEFAULT
 67       RADIONUCLIDE DATA
 68       14
 69        &RADI NUC='AR-41',REL=1.46E+0 &END
```

```
Line      0         1         2         3         4         5         6         7         8
Number    12345678901234567890123456789012345678901234567890123456789012345678901234567890

 70        &RADI NUC='C-11',REL=9.00E+1 &END
 71        &RADI NUC='CS-134',REL=2.04E-7 &END
 72        &RADI NUC='CS-137',REL=4.95E-7 &END
 73        &RADI NUC='BA-137M',REL=0.0,I1=-1,F=3.209E+6 &END
 74        &RADI NUC='H-3',REL=5.03E+1 &END
 75        &RADI NUC='I-129',REL=1.61E-5 &END
 76        &RADI NUC='I-131',REL=1.52E-6 &END
 77        &RADI NUC='KR-85',REL=1.70E+0 &END
 78        &RADI NUC='NB-95',REL=1.55E-8 &END
 79        &RADI NUC='PU-239',REL=5.61E-9 &END
 80        &RADI NUC='RN-220',REL=6.98E+3 &END
 81        &RADI NUC='SB-125',REL=3.38E-5 &END
 82        &RADI NUC='ZR-95',REL=7.5E-9 &END
 83       MODIFICATIONS OF NUCLIDE DATA
 84       14
 85        &MODI NUC='AR-41',LAMSUR=5.48E-5,SC=0.0,VD=0.0 &END
 86        &MODI NUC='C-11',LAMSUR=5.48E-5,SC=0.0,VD=0.0 &END
 87        &MODI NUC='CS-134',LAMSUR=5.48E-5,SC=1.00E-6,VD=1.8E-3 &END
 88        &MODI NUC='CS-137',LAMSUR=5.48E-5,SC=1.00E-6,VD=1.8E-3 &END
 89        &MODI NUC='BA-137M',LAMSUR=5.48E-5,SC=1.00E-6,VD=1.8E-3 &END
 90        &MODI NUC='H-3',LAMSUR=5.48E-5,SC=0.0,VD=0.0 &END
 91        &MODI NUC='I-129',LAMSUR=5.48E-5,SC=1.0E-6,VD=3.5E-2 &END
 92        &MODI NUC='I-131',LAMSUR=5.48E-5,SC=1.0E-6,VD=3.5E-2 &END
 93        &MODI NUC='KR-85',LAMSUR=5.48E-5,SC=0.0,VD=-0.0 &END
 94        &MODI NUC='NB-95',LAMSUR=5.48E-5,SC=1.0E-6,VD=1.8E-3 &END
 95        &MODI NUC='PU-239',LAMSUR=5.48E-5,SC=1.0E-6,VD=1.8E-3 &END
 96        &MODI NUC='RN-220',LAMSUR=5.48E-5,SC=0.0,VD=0.0 &END
 97        &MODI NUC='SB-125',LAMSUR=5.48E-5,SC=1.0E-6,VD=1.8E-3 &END
 98        &MODI NUC='ZR-95',LAMSUR=5.48E-5,SC=1.0E-6,VD=1.8E-3 &END
 99       POPULATION ARRAY
100       FILE 24
101       SKIP 3
102       USER
103        (8(I9,1X))
```

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Line      0         1         2         3         4         5         6         7         8
Number    12345678901234567890123456789012345678901234567890123456789012345678901234567890

104       COMMENTS
105       ARGONNE NATIONAL LAB, IL UNIV. OF CHICAGO POP RUN
106       *
107       AG DATA
108        &AGDT F1V=.076,F2V=.924,F3V=0,F1B=.008,F2B=.992,F3B=0,
109         F1M=0.0,F2M=1.0,F3M=0 &END
110       //*   *****   AIRDOS   *****
111       //ADOS EXEC FORTVG,GREGION=900K,PGMNAME=AIRDOS2,COND=(4,LT)
112       //GO.FT06F001 DD DSN=&&OUTFILE,DISP=(MOD,PASS)
113       //GO.FT25F001 DD DSN=AIRDOS2,DISP=(,PASS),
114       //     UNIT=3380,SPACE=(TRK,(50,20),RLSE),
115       //     DCB=(RECFM=VBS,LRECL=1604,BLKSIZE=11476)
116       //GO.FT50F001 DD DSN=&&PREPAR2,DISP=(OLD,DELETE)
117       //GO.FT51F001 DD DSN=&&OUTFILE2,DISP=(MOD,PASS)
118       //***GO.SYSIN DD DSN=&&PREPAR2,DISP=(OLD,DELETE)
119       //*   ***** PREDA *****
120       //PRDA EXEC FORTVG,GREGION=300K,COND=(4,LT),PGMNAME=PREDA
121       //GO.FT06F001 DD DSN=&&OUTFILE,DISP=(MOD,PASS)
122       //GO.FT05F002 DD DSN=PRDPOP.DAT,DISP=SHR
123       //GO.FT25F001 DD DSN=RADRISK.BIN,DISP=SHR
124       //GO.FT26F001 DD DSN=&&AIRDOS2,DISP=(OLD,PASS)
125       //GO.FT30F001 DD DSN=&&PREDA,DISP=(,PASS),UNIT=SYSDA,
126       //     SPACE=(TRK,(2,2),DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
127       //GO.SYSIN DD *
128           PREPAR/AIRDOS-EPA/PREDA/DARTAB2
129       //*   ***** DARTAB2 *****
130       //DRTB EXEC FORTVG,GREGION=800K,COND=(4,LT),PGMNAME=DARTAB2
131       //GO.FT06F001 DD DSN=&&OUTFILE,DISP=(MOD,PASS)
132       //GO.FT11F001 DD DSN=&&OUTDART,DISP=(OLD,DELETE)
133       //GO.FT12F001 DD DSN=&&SYNOPSIS,DISP=(NEW,PASS),
134       // UNIT=SYSDA,SPACE=(CYL,(2,1)),DCB=(RECFM=FB,LRECL=133,BLKSIZE=5320)
135       //GO.FT13F001 DD DSN=&&FILE13,DISP=(NEW,PASS),
136       // UNIT=SYSDA,SPACE=(CYL,(2,1)),DCB=(RECFM=FB,LRECL=133,BLKSIZE=5320)
137       //GO.FT14F001 DD DSN=&&FILE14,DISP=(NEW,PASS),
```

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Line      0         1         2         3         4         5         6         7         8
Number    12345678901234567890123456789012345678901234567890123456789012345678901234567890

138       // UNIT=SYSDA,SPACE=(CYL,(2,1)),DCB=(RECFM=FB,LRECL=133,BLKSIZE=5320)
139       //GO.FT25F001 DD DSN=*.PRDA.GO.FT25F001,DISP=SHR
140       //GO.FT26F001 DD DSN=&&AIRDOS2,DISP=(OLD,DELETE)
141       //GO.FT27F001 DD DSN=&&OUTFILE2,DISP=(MOD,PASS)
142       //GO.SYSIN DD DSN=&&PREDA,DISP=(OLD,DELETE)
143       //***
144       //*** COPY THE SEQUENTIAL DATA SETS..1 IS FOR ERROR CHECKING
145       //*** THE SECOND DATA SET IS THE RESULTS FOR PRINTING
146       //***
147       //CPY1     EXEC PGM=IEBGENER
148       //SYSPRINT DD DUMMY
149       //SYSUT1   DD DSN=&&OUTFILE,DISP=(OLD,DELETE)
150       //SYSUT2   DD DSN=ERROR.OUTPUT,DISP=OLD
151       //****     SPACE=(CYL,(2,1)),DCB=(RECFM=FB,LRECL=133,BLKSIZE-5320)
152       //SYSIN    DD DUMMY
153       //***   GENERATE MAXNAME=1
154       //***   MEMBER NAME=.....
155       //***
156       //CPY2     EXEC PGM=IEBGENER
157       //SYSPRINT DD DUMMY
158       //SYSUT1   DD DSN=&&SYNOPSIS,DISP=(OLD,PASS)
159       //         DD DSN=&&OUTFILE2,DISP=(OLD,DELETE)
160       //SYSUT2   DD DSN=SAMPLE.OUTPUT,DISP=OLD,
161       //         DCB=(RECFM=FB,LRECL=133,BLKSIZE=5320)
162       //SYSIN    DD DUMMY
163       //CPY3     EXEC PGM=IEBGENER
164       //SYSPRINT DD DUMMY
165       //SYSUT1   DD DSN=&&SYNOPSIS,DISP=(OLD,DELETE)
166       //SYSUT2   DD DSN=SAMPLE.SYNOPSIS,DISP=OLD
167       //SYSIN    DD DUMMY
168       /*
```