_____

Central Florida Regional Planning Model
Version 6.1
Final Draft SubArea Application

_____

Prepared for the
Florida Department of Transportation

Updated By
HTNB
1276 Metropolitan Boulevard
Suite 304
Tallahassee, Fl 32312
July 8, 2016

Table of Contents

List of Tables

List of Figures

List of Appendices

A.   SUBAREA APPLICATION SCRIPTS

List of Acronyms

CFRPM	Central Florida Regional Planning Model
FDOT	Florida Department of Transportation
GUI	Graphical User Interface
MPO	Metropolitan Planning Organization
SERPM	South East Florida Regional Planning Model
TAZ	Transportation analysis zone
TPO	Transportation Planning Organization

1. SUBAREA APPLICATION

The FDOT District 5 requested a Sub Area application be incorporated into the CFRPM v6.1 to allow users to reduce model run times. A review of models in the state found that the SERPM v6.5.4 already had a good sub area application in it therefore it was used the basis for this new application.

The following sections describe how the SubArea application was created in the CFRPM and how to use it.
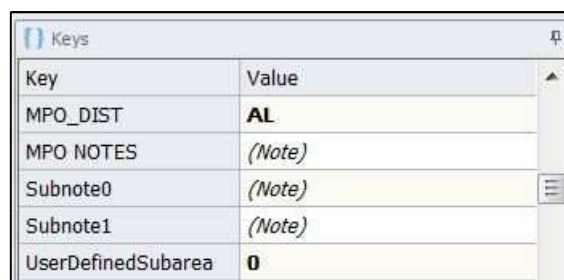
1. Catalog Keys

There are 3 new keys required for the SubArea application which include 2 note keys and 1 "check box" key. 2 other keys are used in the application that already exist and were documented in the *Graphical User Interface & MPO Reporting Tech Memo*. The existing keys are shown as the first 2 keys below. The 5 keys used in the SubArea application are described and shown in Table 1-1 and are found in the model as shown in Figure 1-1.

Table 1-1: SubArea Application Catalog Key Definitions

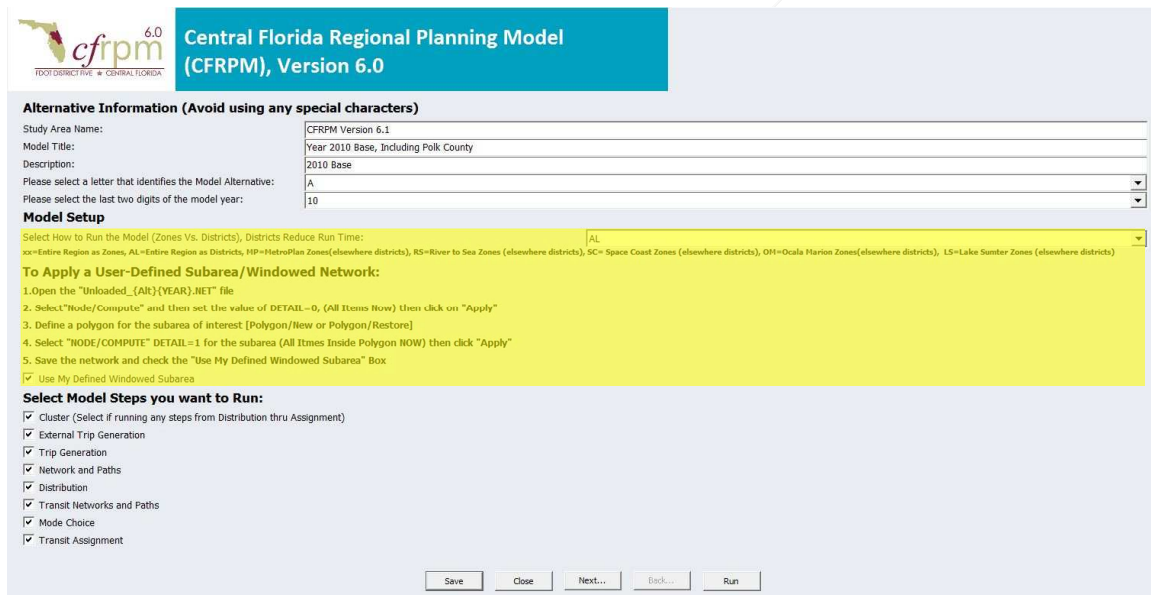| Key	Definition
MPO_DIST	Key used to designate how the user wishes the districting to be run. Setup as a drop down list to avoid errant entries in the GUI.
MPO NOTES	Note key used to define the districting options for selection in the MPO_DIST key in the GUI.
Subnote0	New Note key used as a heading for the User-Defined Subarea/Windowed Network section of the GUI.
Subnote1	New Note key used to define the steps the user must take to execute their own Subarea for selection.
UserDefinedSubarea	New key used to select the users Defined Windowed Subarea step in the GUI.

Figure 1-1: SubArea Application Keys

2.   Design and Use of the SubArea Application in the Updated GUI

In order to implement the new SubArea application, the design of the GUI needed to be updated. This section discusses those updates and explains how to use the new application.

1.   Design of the Updated GUI

The implementation of the 5 keys of the SubArea application immediately follow the "MODEL SETUP" note on Page 1 of the GUI and are shown in Figure 1-2.

Figure 1-2: SubArea Application GUI Page 1

2.   Use of the SubArea Application

The SubArea section of the GUI allows the user to select how the districting is implemented during the model run.

The model can be run 4 different ways and is accomplished through a drop down list for the first 3 options and through a polygon procedure for the last.
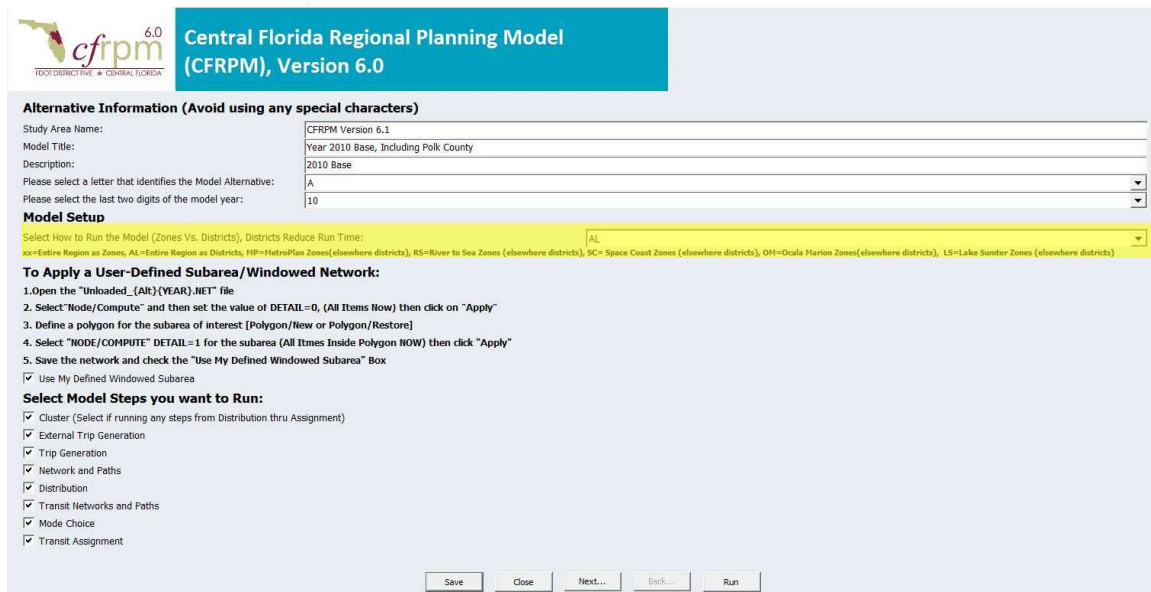
1.   The user can select a specific MPO/TPO area. Once selected, the MPO/TPO area is run as TAZs with the rest of the model run as districts. See Table 1-2.
2.   The user can select the entire region as TAZ. Once selected, the whole model area is run as TAZs.
3.   The user can select the entire region as districts. Once selected, the whole model area is run as districts.
4.   The user can define their own SubArea. Once selected, the model is run with the selected SubArea as TAZs with the rest of the model run as districts.

Table 1-2: MPO_DIST Catalog Key Definitions

Key Value	Definition
xx	This selection runs the Entire Region as Zones.
AL	This selection runs the Entire Region as Districts.
MP	This selection runs MetroPlan as Zones and the rest of the model area as Districts.
RS	This selection runs River to the Sea TPO as Zones and the rest of the model area as Districts.
SC	This selection runs Space Coast TPO as Zones and the rest of the model area as Districts.
OM	This selection runs Ocala/Marion TPO as Zones and the rest of the model area as Districts.
LS	This selection runs Lake/Sumter MPO as Zones and the rest of the model area as Districts.

To run the model by MPO, the entire region as DISTRICTS or TAZs the user simply selects that option from the drop down menu. As an example, Figure 1-3 below shows the selection of "AL" to run the entire model as Districts.

Figure 1-3: Select District/Zone Option

To run the model with a user Defined Windowed SubArea the user follows the instructions located under the heading "To Apply a User-Defined Subarea/Windowed Network". Figure 1-4 shows these steps.

Figure 1-4: User Defined Subarea Steps

To Apply a User-Defined Subarea/Windowed Network:

1. Open the "Unloaded_{Alt}{YEAR}.NET" file

2. Select"Node/Compute" and then set the value of DETAIL=0, (All Items Now) then click on "Apply"

3. Define a polygon for the subarea of interest [Polygon/New or Polygon/Restore]

4. Select "NODE/COMPUTE" DETAIL=1 for the subarea (All Itmes Inside Polygon NOW) then click "Apply"

5. Save the network and check the "Use My Defined Windowed Subarea" Box

☑ Use My Defined Windowed Subarea

Table 1-3 shows the values for the UserDefinedSubarea Key.

Table 1-3: UserDefinedSubarea Catalog Key Definitions

Key Value	Definition
0	Does not run the User Defined Subarea scripts
1	Runs the User Defined Subarea scripts

Figures 1-5 through 1-7 show steps 1-4.

Figure 1-5: User Defined Subarea Step 1
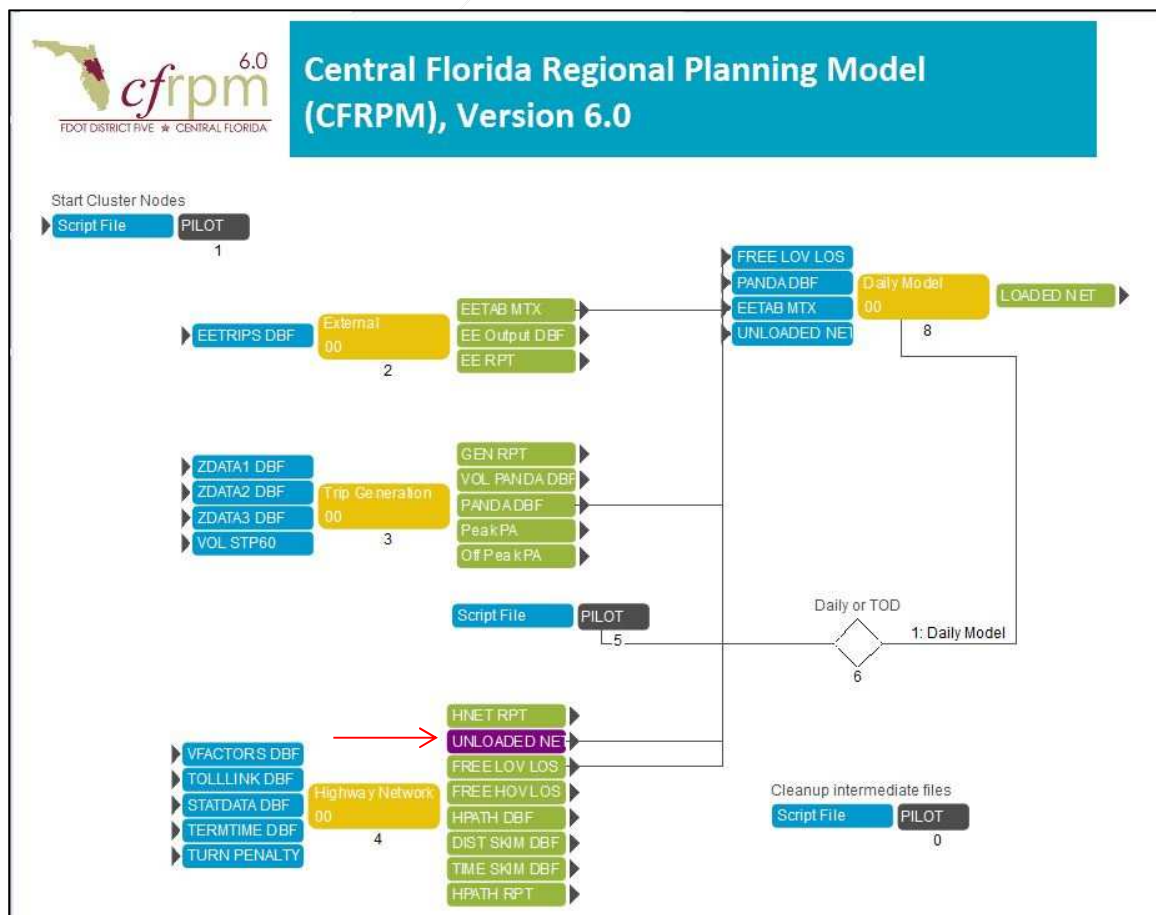
Figure 1-6: User Defined Subarea Step 2
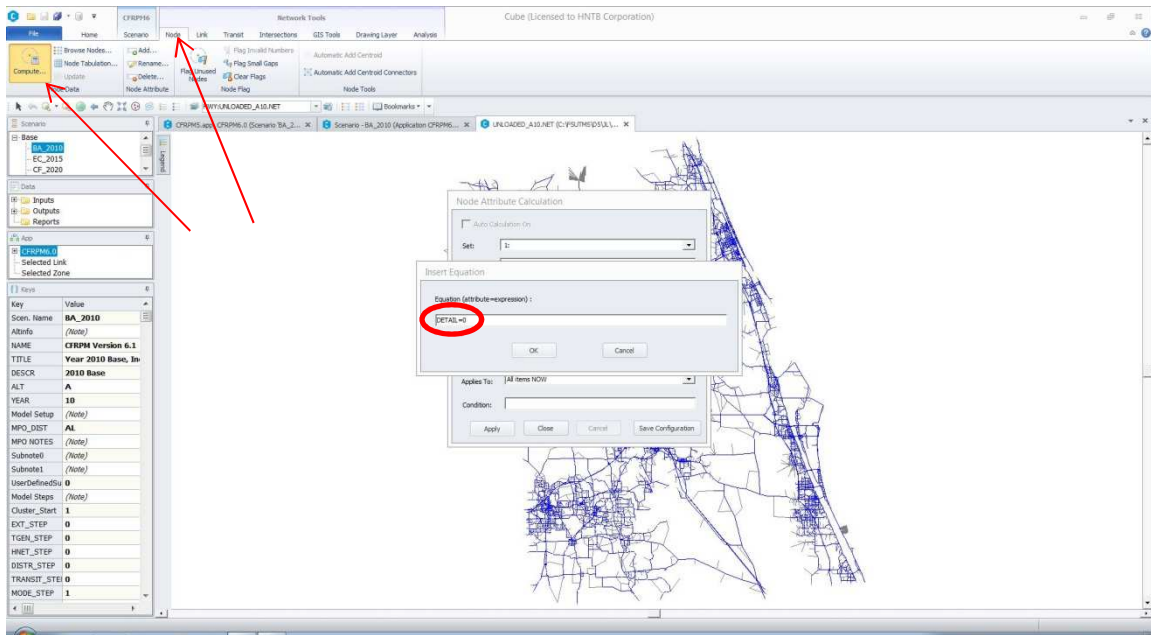
Figure 1-7: User Defined Subarea Step 3
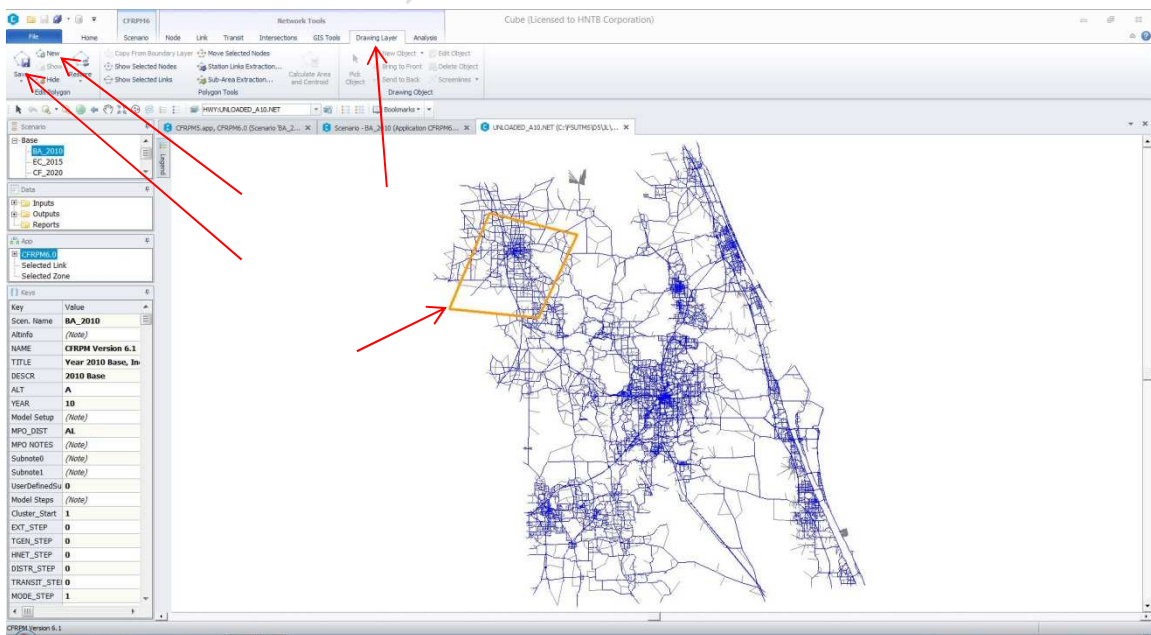
Figure 1-8: User Defined Subarea Step 4
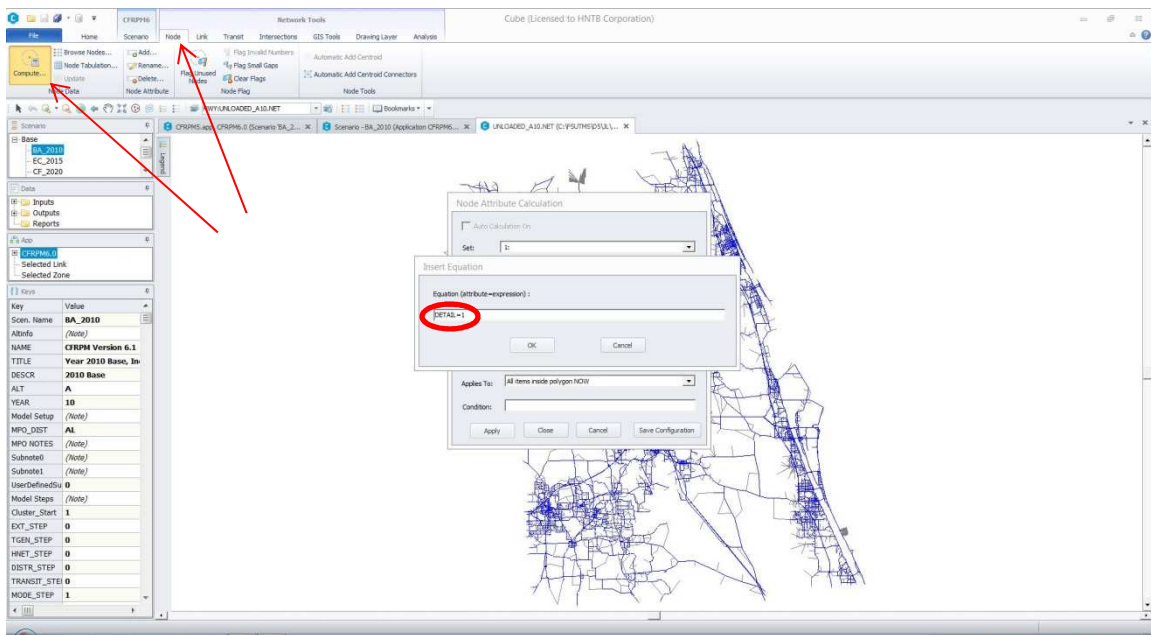
The final step is the select the "check box" for "Use My Defined Windowed Subarea" on the GUI.

3.   Application & Script Modifications

In order to accommodate the use of the SubArea application in the model, modifications were made to the DISTRIBUTION and MODE CHOICE applications.

Figure 1-9: DISTRIBUTION Application
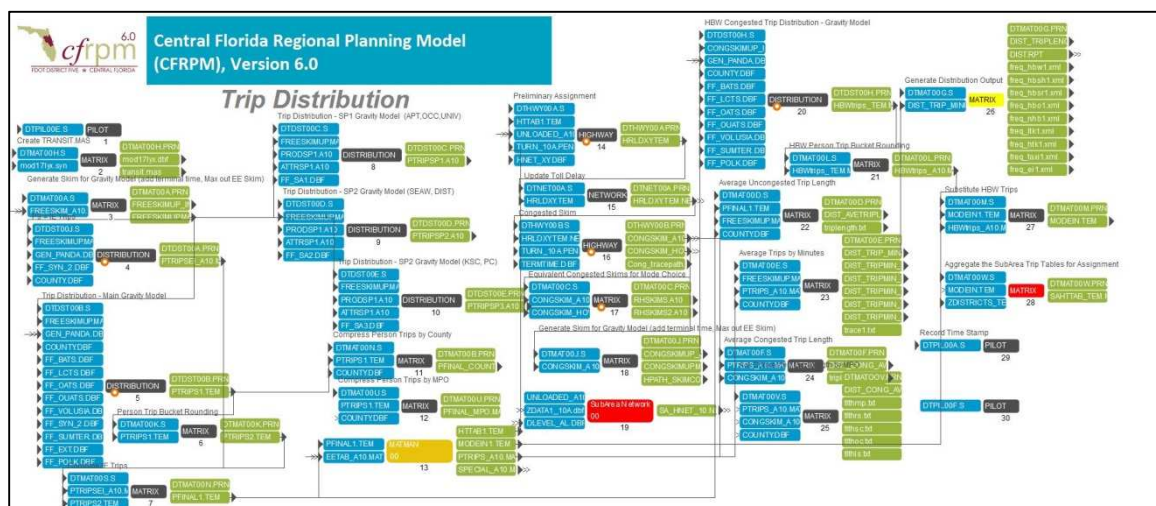
The RED boxes show the modified steps.

The SubArea application was inserted as step 19 in DISTRIBUTION. This application is where the networks are configured based on the user's selection for SubArea windowing. See Figure 1-10 below. All scripts are contained in Appendix A.

Figure 1-10: SubArea Application
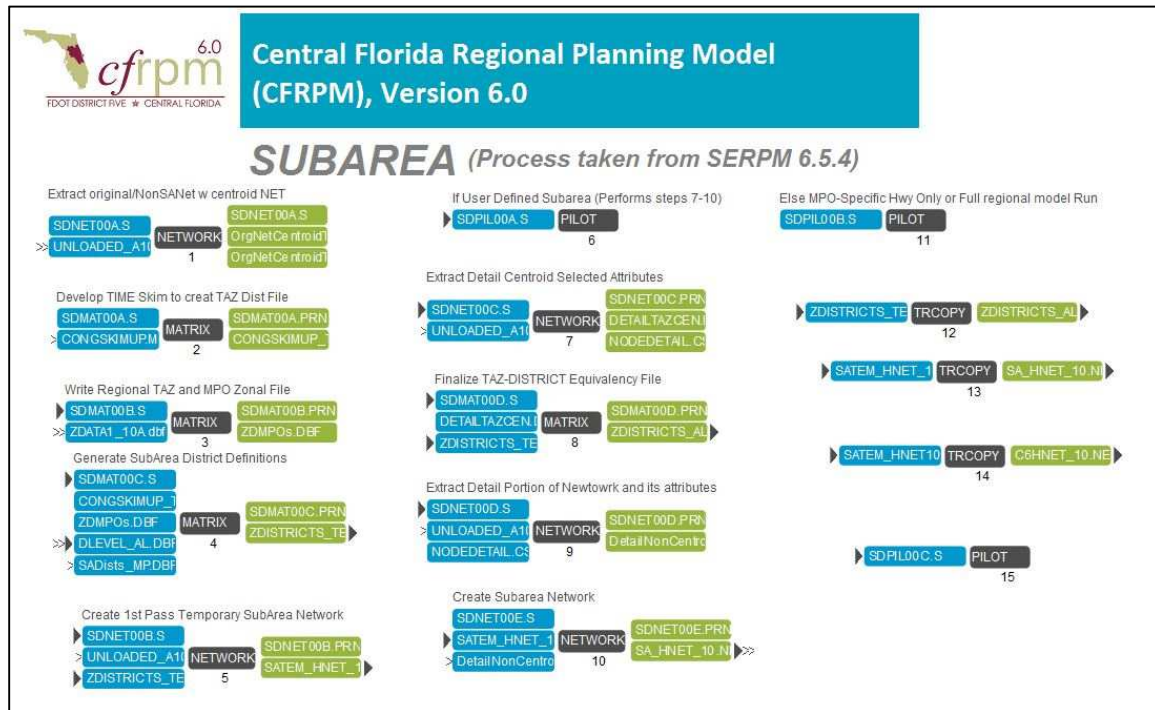
Step 28 of the DISTRIBUTION application was also added to create the SubArea trip tables for assignment. See Figure 1-9.

The final modification in is the Mode Choice Application. Step 2 was modified to sue the output trip table from the SubArea application named "SAHTTAB_TEM.MAT". See Figure 1-11 for the Mode Choice application. The modified Script is located in Appendix A.

Figure 1-11: Mode Choice Application
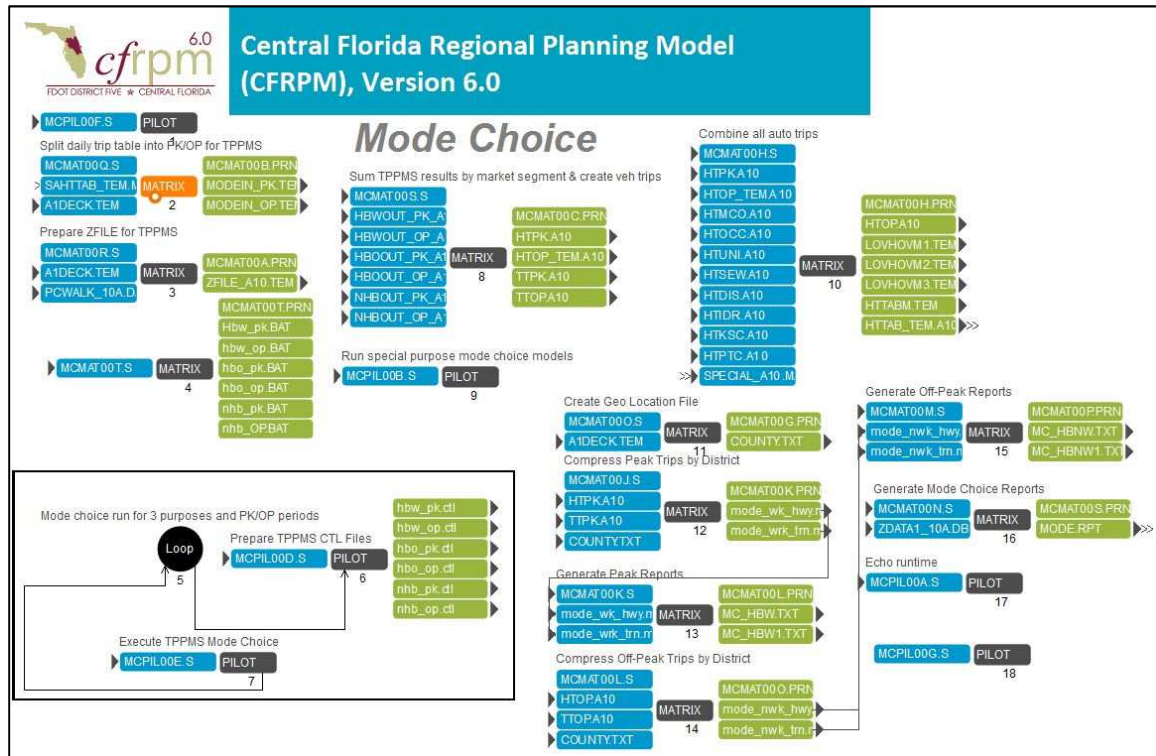
A. SubArea Application Scripts

```
1    ; Do not change filenames or add or remove FILEI/FILEO statements using an
     editor. Use Cube/Application Manager.
2    ;SDNET00A.S
3    RUN PGM=NETWORK PRNFILE="{CATALOG_DIR}\Cube\SDNET00A.S" MSG='Extract
     original/NonSANet w centroid NET'
4    FILEI LINKI[2] = "{SCENARIO_DIR}\Output\UNLOADED_{ATL}{YEAR}.NET"
5    FILEO NETO = "{SCENARIO_DIR}\Output\Temp\OrgNetCentroidTime.NET"
6    FILEO LINKO = "{SCENARIO_DIR}\Output\Temp\OrgNetCentroidTime.TEM",
7       include=a,b,TimeOrg
8
9    PROCESS  PHASE=LINKMERGE
10     if ((a >5406)& (b >5406)) delete
11     TimeOrg=Time
12   ENDPROCESS
13   ENDRUN
14
```

```
  1    ; Do not change filenames or add or remove FILEI/FILEO statements using an
       editor. Use Cube/Application Manager.
  2    ;SDMAT00A.S
  3    RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\Cube\SDMAT00A.PRN" MSG='Develop TIME Skim
       to creat TAZ Dist File'
  4    FILEI MATI[1] = "{SCENARIO_DIR}\Output\Temp\CONGSKIMUP.MAT"
  5    FILEO MATO[1] = "{SCENARIO_DIR}\Output\Temp\CONGSKIMUP_TEM.MAT",
  6    mo=1,NAME=TIME
  7
  8    PAR ZONEMSG=100
  9    MW[1]=mi.1.1*1        ; TIME With Terminal Time (in Minutes) - Step Not really
       needed as TT is already in Minutes. Done for consistency with SERPM
 10    MW[1][I]=1000000      ; QUICKER (WW)
 11
 12    ENDRUN
 13
```

```
 1    ; Do not change filenames or add or remove FILEI/FILEO statements using an
      editor. Use Cube/Application Manager.
 2    ;SDMAT00B.S
 3    RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\Cube\SDMAT00B.PRN" MSG='Write Regional
      TAZ and MPO Zonal File'
 4    FILEI ZDATI[1] = "{SCENARIO_DIR}\Input\ZDATA1_{YEAR}{ALT}.dbf"
 5    FILEO RECO[1] = "{SCENARIO_DIR}\Output\ZDMPOs.DBF",
 6    form=10.0, FIELDS=N,MPO
 7    PAR ZONES={ZONES}
 8    PAR ZONEMSG=100
 9
10
11    ;Get Zonal TAZ Info as Node Record...
12    N=ZI.1.TAZ_REG
13    MPO=ZI.1.MPO
14
15    _ztemp=_ztemp+1
16
17    ;Set Data for Indian River  and Polk Internal and Dummy Zones
18
19    if(z>=4601 & z<={ZONESI})
20       N=z
21
22         MPO=0
23
24    endif
25
26    ;Set Data for MetroPlan Orladndo Internal and Dummy Zones
27    if(z>=1 & z<=1400)
28      N=z
29
30         MPO=1
31
32    endif
33
34    ;Set Data for Volusia Internal and Dummy Zones
35
36    if(z>=1801 & z<=2900)
37      N=z
38
39         MPO=2
40
41    endif
42
43    ;Set Data for Flagler Internal and Dummy Zones
44
45    if(z>=4401 & z<=4600)
46      N=z
47
48         MPO=2
49    ENDIF
50
51    ;Set Data for Space Coast Internal and Dummy Zones
52
53    if(z>=2901 & z<=3700)
54       N=z
55
56         MPO=3
57
58    endif
59
60    ;Set Data for Ocala Marion Internal and Dummy Zones
```

```
 61
 62    if(z>=3701 & z<=4200)
 63      N=z
 64
 65        MPO=4
 66
 67    endif
 68
 69    ;Set Data for Lake Internal and Dummy Zones
 70
 71    if(z>=1401 & z<=1800)
 72      N=z
 73
 74        MPO=5
 75
 76    endif
 77
 78
 79    ;Set Data for Sumter Internal and Dummy Zones
 80
 81    if(z>=4201 & z<=4400)
 82      N=z
 83
 84        MPO=5
 85
 86    ENDIF
 87
 88    WRITE RECO=1
 89
 90    ;External Zones
 91    if(z={ZONESI})
 92      loop jj={ZONESI}+1,{ZONES}
 93        N=jj
 94
 95        if (N>=5351 & N<=5357)        ;Indian River Polk Externals
 96         MPO=0
 97        ENDIF
 98
 99         if (N>=5361 & N<=5377)         ;Polk Externals
100          MPO=0
101         ENDIF
102
103         if (N>=5358 & N<=5360)        ;MetroPlan Orlando Externals
104           MPO=1
105        endif
106
107        if (N>=5401 & N<=5406)        ;River to Sea Externals
108          MPO=2
109        endif
110
111        if (N>=5384 & N<=5400)        ;Ocala Marion Externals
112          MPO=4
113        endif
114
115        if (N>=5378 & N<=5383)        ;Lake Sumter Externals
116          MPO=5
117        endif
118
119
120        WRITE RECO=1
121
122      endloop
```

```
123    ENDIF
124    ENDRUN
125
```

```
1    ; Do not change filenames or add or remove FILEI/FILEO statements using an
     editor. Use Cube/Application Manager.
2    ;SDMAT00C.S
3    RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\Cube\SDMAT00C.PRN" MSG='Generate SubArea
     District Definitions'
4
5    FILEI ZDATI[1] = "{SCENARIO_DIR}\Output\ZDMPOs.DBF",
6        z=N
7    FILEI LOOKUPI[1] = "{SCENARIO_DIR}\Input\DLEVEL_{MPO_DIST}.DBF"
8    FILEI LOOKUPI[2] = "{SCENARIO_DIR}\Input\SADists_MP.DBF"
9    FILEO RECO[1] = "{SCENARIO_DIR}\Output\Temp\ZDISTRICTS_TEM_{MPO_DIST}.DBF",
10       Fields= TAZ,DTAZ,NEAR,SADIST,MPO
11   FILEI MATI[1] = "{SCENARIO_DIR}\Output\Temp\CONGSKIMUP_TEM.MAT"
12
13   LOOKUP LOOKUPI=2,  ; One record per District
14         NAME=DCENTROID,
15            LOOKUP[1]=CENTERTAZ, RESULT=SADIST,
16            LOOKUP[2]=CENTERTAZ, RESULT=CENTERTAZ,
17            LOOKUP[3]=CENTERTAZ, RESULT=MPOCODE,
18            LOOKUP[4]=CENTERTAZ, RESULT=SADST_TW,
19         FAIL=0,0,0
20
21   LOOKUP LOOKUPI=1,  ; One record per MPO
22         NAME=LEVEL,
23            LOOKUP[1]=MPO, RESULT=DLEVEL, ; 1=District Level, 0=TAZ Level
24         FAIL=0,0,0
25
26   Parameters ZONES={ZONES}
27   PAR ZONEMSG=100
28
29
30   near=1000
31   TAZ=i
32   MPO=zi.1.MPO
33   mylevel=LEVEL(1,MPO)
34   IF(i>{ZONESI}) MPO=99
35     jloop
36      place=DCENTROID(2,j)
37      thisdist=DCENTROID(1,j)
38      if(place<>0)
39         if(i=place)
40            near=0
41            DTAZ=j
42            SADIST=thisdist
43         else
44            ctime=mi.1.time[j]
45            if(ctime < near)
46               near=ctime
47               DTAZ=j
48               SADIST=thisdist
49            endif
50         endif
51      endif
52     endjloop
53   if(mylevel=0) DTAZ=i ; At the TAZ level
54   if(near<1000 & MPO>=0) WRITE RECO=1 ;added = in MPO>0 for Polk and Indian
     River  zones 4601-5350
55
56   ENDRUN
57
```

```
1    ; Do not change filenames or add or remove FILEI/FILEO statements using an
     editor. Use Cube/Application Manager.
2    ;SDNET00B.S
3    RUN PGM=NETWORK PRNFILE="{CATALOG_DIR}\Cube\SDNET00B.PRN" MSG='Create 1st Pass
     Temporary SubArea Network'
4    FILEI LINKI[2] = "{SCENARIO_DIR}\Output\UNLOADED_{ALT}{YEAR}.NET"
5    FILEI LOOKUPI[1] = "{SCENARIO_DIR}\Output\Temp\ZDISTRICTS_TEM_{MPO_DIST}.DBF"
6    FILEO NETO = "{SCENARIO_DIR}\Output\SATEM_HNET_{YEAR}.NET"
7
8    array gone=99000
9
10   PROCESS   PHASE=NODEMERGE
11     LOOKUP LOOKUPI=1,
12         NAME=SADIST,
13           LOOKUP[1]=TAZ, RESULT=DTAZ,
14         FAIL[3]=0
15     if(N<={ZONES}) _NN=_NN+1
16     if(N<={ZONES}) SA_Centroid=1
17     IF((N<>SADIST(1,N)) & (N<={ZONESI}))
18
19     ;| (NODETYPE=3,4))   ; for SERPM Only
20         gone[N]=1
21       _dd=_dd+1
22     delete
23     endif
24   ENDPROCESS
25
26   PROCESS   PHASE=LINKMERGE
27     _AD=gone[a]
28     _BD=gone[b]
29     if(_AD>0 | _BD>0)
30       print list= A(5.0),B(5.0),' deleted'
31       delete
32     endif
33   ENDPROCESS
34
35   PROCESS   PHASE=SUMMARY
36     _LL=_NN-_dd
37     print list=' ******* Deleted ',_dd(4.0),' nodes out of a total of ',_NN(4.0),
     ' leaving ',_LL(4.0),' active centroids'
38   ENDPROCESS
39
40
41
42
43   ENDRUN
44
```

```
1   ; Do not change filenames or add or remove FILEI/FILEO statements using an
    editor. Use Cube/Application Manager.
2   ;SDPIL00A.S
3   if ({UserDefinedSubarea}=1) ; User defined Subarea
4
5
```

```
1   ; Do not change filenames or add or remove FILEI/FILEO statements using an
    editor. Use Cube/Application Manager.
2   ;SDNET00C.S
3   RUN PGM=NETWORK PRNFILE="{CATALOG_DIR}\Cube\SDNET00C.PRN" MSG='Extract Detail
    Centroid Selected Attributes'
4   FILEO PRINTO[1] = "{SCENARIO_DIR}\Output\NODEDETAIL.CSV"
5   FILEO NODEO = "{SCENARIO_DIR}\Output\Temp\DETAILTAZCEN.DBF",
6     INCLUDE=TAZ,DTAZ,NEAR,SADIST,MPO,DETAIL
7   FILEI LINKI[1] = "{SCENARIO_DIR}\Output\UNLOADED_{ALT}{YEAR}.NET"
8
9   PROCESS  PHASE=NODEMERGE
10  ; -------------------------------------------------------------
11  ; NEXT STEP IS TO CAPTURE THE DETAIL ATTRIBUTE ON THE NODES TO
12  ; SAVE THE USER NEEDING TO COMPUTE IT FOR LINKS TOO
13    PRINT CSV=T, LIST=N(6.0),DETAIL(2.0), PRINTO=1
14  ; -------------------------------------------------------------
15    IF (DETAIL=1 & N <={ZONES})
16      TAZ=NI.1.N
17      DTAZ=NI.1.N
18      NEAR=0
19      SADIST=5000+TAZ
20      MPO=NI.1.MPO
21    ELSE
22      DELETE
23    ENDIF
24  ENDPROCESS
25
26  ENDRUN
27
```

```
1   ; Do not change filenames or add or remove FILEI/FILEO statements using an
    editor. Use Cube/Application Manager.
2   ;SDMAT00D.S
3   RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\Cube\SDMAT00D.PRN" MSG='Finalize
    TAZ-DISTRICT Equivalency File'
4
5   FILEI ZDATI[2] = "{SCENARIO_DIR}\Output\Temp\ZDISTRICTS_TEM_{MPO_DIST}.DBF",
6     Z=TAZ
7   FILEI ZDATI[1] = "{SCENARIO_DIR}\Output\Temp\DETAILTAZCEN.DBF",
8     z=taz
9   FILEO RECO[1] = "{SCENARIO_DIR}\Output\ZDISTRICTS_{MPO_DIST}.DBF",
10     FIELDS=TAZ,DTAZ,NEAR,SADIST,MPO,DETAIL
11
12  PAR ZONES={ZONES}
13  PAR ZONEMSG=100
14
15  ;XXXXXX
16  TAZ=ZI.2.TAZ
17  DETAIL=ZI.1.DETAIL
18
19  IF (DETAIL=1)
20    DTAZ=ZI.1.DTAZ
21    NEAR=ZI.1.NEAR
22    SADIST=ZI.1.SADIST
23    COUNTY=ZI.1.MPO
24    DETAIL=ZI.1.DETAIL
25   Else
26    DTAZ=ZI.2.DTAZ
27    NEAR=ZI.2.NEAR
28    SADIST=ZI.2.SADIST
29    COUNTY=ZI.2.MPO
30    DETAIL=0
31  ENDIF
32
33  WRITE RECO=1
34  ENDRUN
35
```

```
1    ; Do not change filenames or add or remove FILEI/FILEO statements using an
     editor. Use Cube/Application Manager.
2    ;SDNET00D.S
3    RUN PGM=NETWORK PRNFILE="{CATALOG_DIR}\Cube\SDNET00D.PRN" MSG='Extract Detail
     Portion of Newtowrk and its attributes'
4    FILEI LOOKUPI[1] = "{SCENARIO_DIR}\Output\NODEDETAIL.CSV"
5    FILEO NETO = "{SCENARIO_DIR}\Output\Temp\DetailNonCentroid.NET"
6    FILEI LINKI[1] = "{SCENARIO_DIR}\Output\UNLOADED_{ALT}{YEAR}.NET"
7    PROCESS  PHASE=NODEMERGE
8      IF (DETAIL=1 & N <={ZONES})SA_Centroid=1
9    ENDPROCESS
10
11   PROCESS  PHASE=LINKMERGE
12     LOOKUP NAME=NODEDETAIL, LOOKUP[1]=1, RESULT=2,
13            FAIL[1]=0, FAIL[2]=0, FAIL[3]=0,
14            LOOKUPI=1
15     _ADETAIL=NODEDETAIL(1,A.N)
16     _BDETAIL=NODEDETAIL(1,B.N)
17     ; IF EITHER THE ANODE OR BNODE IS A KEEPER THEN KEEP
18     _KEEP=MAX(_ADETAIL,_BDETAIL)
19     IF (_KEEP=0) DELETE
20
21   ;  IF (DETAILNET=0) delete
22   ENDPROCESS
23
24   ENDRUN
25
```

```
 1    ; Do not change filenames or add or remove FILEI/FILEO statements using an
      editor. Use Cube/Application Manager.
 2    ;SDNET00E.S
 3    RUN PGM=NETWORK PRNFILE="{CATALOG_DIR}\Cube\SDNET00E.PRN" MSG='Create Subarea
      Network'
 4    FILEI LINKI[3] = "{SCENARIO_DIR}\Output\Temp\DetailNonCentroid.NET"
 5
 6    FILEI LINKI[1] = "{SCENARIO_DIR}\Output\SATEM_HNET_{YEAR}.NET"
 7    FILEO NETO = "{SCENARIO_DIR}\Output\SA_HNET_{YEAR}.NET"
 8
 9    merge MAX=SA_Centroid
10
11    PROCESS   PHASE=LINKMERGE
12
13    ENDPROCESS
14
15    ENDRUN
16
```

```
1    ; Do not change filenames or add or remove FILEI/FILEO statements using an
     editor. Use Cube/Application Manager.
2    ;SDPIL00B.S
3
4    else
5
```

```
 1    ; Do not change filenames or add or remove FILEI/FILEO statements using an
      editor. Use Cube/Application Manager.
 2    ;SDPIL00C.S
 3
 4    ;*if exist {SCENARIO_DIR}\Output\TEMP\ZDISTRICTS_TEM_XX.DBF copy
      {SCENARIO_DIR}\Output\TEMP\ZDISTRICTS_TEM_XX.DBF
      {SCENARIO_DIR}\Output\ZDISTRICTS_XX.DBF
 5    ;*if exist {SCENARIO_DIR}\Output\SATEM_HNET_{Year}.NET copy
      {SCENARIO_DIR}\Output\SATEM_HNET_{Year}.NET
      {SCENARIO_DIR}\Output\SA_HNET_{Year}.NET
 6    ;*if exist {SCENARIO_DIR}\Output\SATEM_HNET_{Year}.NET copy
      {SCENARIO_DIR}\Output\SATEM_HNET_{Year}.NET
      {SCENARIO_DIR}\Output\S6HNET_{Year}.NET
 7    ENDIF
 8
 9
10
```

```
 1   ; Do not change filenames or add or remove FILEI/FILEO statements using an
     editor. Use Cube/Application Manager.
 2   ;DTMAT00W.S
 3   RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\Cube\DTMAT00W.PRN" MSG='Aggregate the
     SubArea Trip Tables for Assignment'
 4   FILEI ZDATI[1] = "{SCENARIO_DIR}\Output\Temp\ZDISTRICTS_TEM_{MPO_DIST}.DBF"
 5   FILEI MATI[2] = "{SCENARIO_DIR}\Output\MODEIN.TEM"
 6   ;DISTRIBUTEINTRASTEP PROCESSID='CFRPMdist',
     PROCESSLIST=2-%NUMBER_OF_PROCESSORS%,MinGroupSize=20,SavePrn=F
 7   ;DISTRIBUTEINTRASTEP ProcessID='CFRPMdist',ProcessList=1-4
 8   FILEO MATO[1] = "{SCENARIO_DIR}\Output\Temp\SAHTTAB_TEM.MAT",
 9    MO=1-4, NAME=M1,M2,M3,M4 DEC=2*S
10
11
12   PAR ZONEMSG=100
13
14   FILLMW MW[1]=MI.2.1,2,3,4
15
16   RENUMBER ZONEO=ZI.1.DTAZ MISSINGZI=W MISSINGZO=W ZONES={ZONES}
17
18
19   ENDRUN
20
```

```
1    ; Do not change filenames or add or remove FILEI/FILEO statements using an
     editor. Use Cube/Application Manager.
2    ;MCMAT00Q.S
3    RUN PGM=MATRIX PRNFILE="{CATALOG_DIR}\CUBE\MCMAT00B.PRN" MSG='Split daily trip
     table into PK/OP for TPPMS'
4    FILEI MATI[2] = "{SCENARIO_DIR}\Output\Temp\SAHTTAB_TEM.MAT"
5
6    DistributeINTRASTEP ProcessID="CFRPMdist", ProcessList=1-%NUMBER_OF_PROCESSORS%
7    ;DistributeINTRASTEP ProcessID="CFRPMdist", ProcessList=1-4
8
9    FILEI LOOKUPI[1] = "{SCENARIO_DIR}\output\A1DECK.TEM"
10   FILEO MATO[2] = "{SCENARIO_DIR}\OUTPUT\MODEIN_OP.TEM",
11   MO=4-10, name=HBW0,HBW1,HBW2,HBO0,HBO1,HBO2,NHB, Format=tranplan
12   FILEO MATO[1] = "{SCENARIO_DIR}\OUTPUT\MODEIN_PK.TEM",
13   MO=4-10, name=HBW0,HBW1,HBW2,HBO0,HBO1,HBO2,NHB,format=tranplan
14   zonemsg=100
15
16   LOOKUP NAME=A1DECK,LOOKUP[1]=1,RESULT=5, ;HBW0
17                     LOOKUP[2]=1,RESULT=6, ;HBW1
18                     LOOKUP[3]=1,RESULT=7, ;HBW2
19                     LOOKUP[4]=1,RESULT=8, ;NWK0
20                     LOOKUP[5]=1,RESULT=9, ;NWK1
21                     LOOKUP[6]=1,RESULT=10, ;NWK2
22                     FAIL=0,0,0,
23                     LOOKUPI=1
24
25   FILLMW MW[1]=MI.2.1,2,3
26
27   MW[4]=MW[1]*A1DECK(1,I)*0.5*0.01
28   MW[5]=MW[1]*A1DECK(2,I)*0.5*0.01
29   MW[6]=MW[1]*(100-A1DECK(1,I)-A1DECK(2,I))*0.5*0.01
30   MW[7]=MW[2]*A1DECK(4,I)*0.5*0.01
31   MW[8]=MW[2]*A1DECK(5,I)*0.5*0.01
32   MW[9]=MW[2]*(100-A1DECK(4,I)-A1DECK(5,I))*0.5*0.01
33   MW[10]=MW[3]*0.5
34
35   ENDRUN
36
```