Chapter 3
Performance Optimization Parameters

3.1 Introduction

This chapter addresses the adaptable parameters that impact local WSR-88D data collection, quality and availability and associated user support. Many of the parameters contained in this chapter are designated as Unit Radar Committee (URC) or Agency Level of Change Authority (LOCA) and should be routinely modified to address changing meteorological conditions and operational requirements.

3.2 Alert Processing - URC LOCA

The WSR-88D alerting function will search data fields and algorithm output data to identify any phenomena selected as an alert criteria within the area designated by any associated Principal User Processor (PUP). (The sole exception being the MAX 1HR PRECIP alert which is not restricted to the alert area definitions.) Upon detection of alert criteria being met, the alerting function notifies the affected PUP(s) and, if specified, will generate and automatically distribute an alert-paired product to the appropriate PUP(s).

3.2.1 Alert Thresholds - URC LOCA

Up to 6 Alert Threshold Codes can be defined for each alert category. Individual threshold values should be selected to meet the local requirements of all associated users. All alert processing functions search the data fields out to 124 nm for each alert category except for the following 9 alert categories;

Grid Reflectivity (GR**)** - the composite reflectivity data field is processed out to 186 nm,

Grid Velocity (GV) - the base velocity data field is only searched to 62 nm,

Volume VAD (VD) - only the lowest VWP height is used to trigger this alert,

Volume TVS (VS) - a TVS must be identified within 62 nm to trigger this alert,

Volume Max Storm Reflectivity (VR) - the storm cell must be within 248 nm,

Volume Storm Top (VT) - the storm cell must be within 248 nm,

Forecast TVS (FS) - the forecasted position of the storm cell containing the TVS must fall within 62 nm,

Forecast Max Storm Reflectivity (FR) - the forecasted position of the storm cell must be within 248 nm, and

Forecast Storm Top (FT) - the forecasted position of the storm cell must be within 248 nm.

```
                          ALERT THRESHOLD EDIT SCREEN              PAGE  1 OF  1
COMMAND: AD,*****,AL,
FEEDBACK:                                                           OPER A/

  (M)odify, {CODE}   (E)nd   (C)ancel                CATEGORY CODES
  (A)lert Threshold Values                 ----------------------------------------
                                           GRID GROUP            13. Prob SVR Hail
                                           1.  Velocity          14. Storm Top
CODE CAT   T1   T2   T3   T4   T5   T6     2.  Comp Refl         15. Max 1hr Accum
-------------------------------------      3.  Echo Tops         16-24. Not Used
                                           4.  SWP
-------------------------------------      5.  Not Used          FORECAST GROUP
UNITS :                                    6.  VIL               25. Max Hail Size
-------------------------------------                            26. Mesocyclone
MIN:                                       VOLUME GROUP          27. TVS
MAX:                                       7.  VAD               28. Max Storm Refl
                                           8.  Max Hail Size     29. Prob Hail
                                           9.  Mesocyclone       30. Prob SVR Hail
                                           10. TVS               31. Storm Top
                                           11. Max Storm Refl    32-41. Not Used
                                           12. Prob Hail
```

Figure 3.2-1

3.2.2 Product Alert Pairing - URC LOCA

When an alert is identified for any associated PUP, and that PUP has designated to receive the alert-paired product, the alert processing function will initiate a one-time request for the product specified on this menu.

```
                            PRODUCT ALERT PAIRING                  PAGE  1 OF  6
COMMAND: AD,*****,P,
FEEDBACK:                                                           OPER A/

(M)odify, {LINE#}                (E)nd            (C)ancel
(P)age, {N PAGES}

                             Data
N   Group   Cat    Prod     Level  Res
---------------------------------------

---------------------------------------
 1   GRID   GV      SWV      16    .13
 2   GRID   GR      CR       16    2.2
 3   GRID   GT      ET       16    2.2
 4   GRID   GP      SWP       4    2.2
 5   GRID   N/A
 6   GRID   GL      VIL      16    2.2
 7   VOL    VD      VAD       8
 8   VOL    VH      HI
```

Figure 3.2-2

```
                              PRODUCT ALERT PAIRING                 PAGE  2 OF  6
COMMAND: AD,*****,P,
FEEDBACK:                                                            OPER A/

(M)odify, {LINE#}                (E)nd            (C)ancel
(P)age, {N PAGES}

                             Data
N   Group   Cat    Prod     Level  Res
---------------------------------------

---------------------------------------
 9   VOL    VM      SRR      16    .27
10   VOL    VS      TVS
11   VOL    VR      WER       8    .54
12   VOL    VA      RCS      16
13   VOL    VZ      WER       8    .54
14   VOL    VT      ET       16    2.2
15   VOL    VP      OHP      16    1.1
16   VOL    N/A
```

Figure 3.2-3

```
                              PRODUCT ALERT PAIRING                 PAGE  3 OF  6
COMMAND: AD,*****,P,
FEEDBACK:                                                            OPER A/

(M)odify, {LINE#}                (E)nd            (C)ancel
(P)age, {N PAGES}

                             Data
N   Group   Cat    Prod     Level  Res
---------------------------------------

---------------------------------------
17   VOL    N/A
18   VOL    N/A
19   VOL    N/A
20   VOL    N/A
21   VOL    N/A
22   VOL    N/A
23   VOL    N/A
24   VOL    N/A
```

Figure 3.2-4

```
                              PRODUCT ALERT PAIRING                 PAGE  4 OF  6
COMMAND: AD,*****,P,
FEEDBACK:                                                            OPER A/

(M)odify, {LINE#}                (E)nd            (C)ancel
(P)age, {N PAGES}

                             Data
N   Group   Cat    Prod     Level  Res
---------------------------------------

---------------------------------------
25   FCST   FH      HI
26   FCST   FM      SRR      16    .27
27   FCST   FS      TVS
28   FCST   FR      WER       8    .54
29   FCST   FA      RCS      16
30   FCST   FZ      WER       8    .54
31   FCST   FT      ET       16    2.2
32   FCST   N/A
```

Figure 3.2-5

```
                              PRODUCT ALERT PAIRING                 PAGE  5 OF  6
COMMAND: AD,*****,P,
FEEDBACK:                                                            OPER A/

(M)odify, {LINE#}                (E)nd            (C)ancel
(P)age, {N PAGES}

                             Data
N   Group   Cat    Prod     Level  Res
---------------------------------------

---------------------------------------
33   FCST   N/A
34   FCST   N/A
35   FCST   N/A
36   FCST   N/A
37   FCST   N/A
38   FCST   N/A
39   FCST   N/A
40   FCST   N/A
```

Figure 3.2-6

```
                              PRODUCT ALERT PAIRING                 PAGE  6 OF  6
COMMAND: AD,*****,P,
FEEDBACK:                                                            OPER A/

(M)odify, {LINE#}                (E)nd            (C)ancel
(P)age, {N PAGES}

                             Data
N   Group   Cat    Prod     Level  Res
---------------------------------------

---------------------------------------
41   FCST   N/A
```

Figure 3.2-7

3.3 Background Map Associations

This menu specifies which maps are transmitted to nonassociated PUPs when a dial-in request is honored and the PUP has requested that maps accompany the product.

.

```
                        BACKGROUND MAP ASSOC EDIT SCREEN           PAGE  1 OF  1
COMMAND: AD,*****,B,19,
FEEDBACK:                                                            OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                            Prod Id:  19   Prod Name: R
                                MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X X                           X X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-1

```
                        BACKGROUND MAP ASSOC EDIT SCREEN           PAGE  1 OF  1
COMMAND: AD,*****,B,20,
FEEDBACK:                                                           OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                           Prod Id:  20   Prod Name: R
                              MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X X                           X X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-2

```
                        BACKGROUND MAP ASSOC EDIT SCREEN           PAGE  1 OF  1
COMMAND: AD,*****,B,25,
FEEDBACK:                                                           OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                           Prod Id:  25   Prod Name: V
                              MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X X                           X X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-3

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,27,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  27   Prod Name: V
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X X                           X X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-4

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,28,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an "X" under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  28   Prod Name: SW
                                  MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X X                           X X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-5

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,30,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an "X" under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  30   Prod Name: SW
                                  MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
                  X X         X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-6

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,31,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  31   Prod Name: USP
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ------------------------------------------------------------
    X X   X X
    ------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-7

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,34,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  34   Prod Name: CFC
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ------------------------------------------------------------
        X X X   X                 X
    ------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-8

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,38,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  38   Prod Name: CR
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X X                           X X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-9

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,41,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  41   Prod Name: ET
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X                   X   X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-10

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,47,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an "X" under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  47   Prod Name: SWP
                                MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
      X                            X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-11

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,48,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an "X" under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  48   Prod Name: VWP
                                MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
      X                            X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-12

```
                        BACKGROUND MAP ASSOC EDIT SCREEN           PAGE  1 OF  1
COMMAND: AD,*****,B,56,
FEEDBACK:                                                           OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an "X" under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  56   Prod Name: SRM
                                MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
              X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-13

```
                        BACKGROUND MAP ASSOC EDIT SCREEN           PAGE  1 OF  1
COMMAND: AD,*****,B,57,
FEEDBACK:                                                           OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an "X" under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  57   Prod Name: VIL
                                MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X X                           X X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-14

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,58,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  58   Prod Name: STI
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
                               X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-15

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,59,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  59   Prod Name: HI
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
                               X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-16

```
                        BACKGROUND MAP ASSOC EDIT SCREEN           PAGE  1 OF  1
COMMAND: AD,*****,B,60,
FEEDBACK:                                                           OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                           Prod Id:  60   Prod Name: M
                              MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
                                  X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-17

```
                        BACKGROUND MAP ASSOC EDIT SCREEN           PAGE  1 OF  1
COMMAND: AD,*****,B,61,
FEEDBACK:                                                           OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                           Prod Id:  61   Prod Name: TVS
                              MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
                          X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-18

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,62,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  62   Prod Name: SS
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
                               X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-19

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,65,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  65   Prod Name: LRM
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
                X     X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-20

```
                        BACKGROUND MAP ASSOC EDIT SCREEN           PAGE  1 OF  1
COMMAND: AD,*****,B,66,
FEEDBACK:                                                           OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an "X" under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  66   Prod Name: LRM
                                MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
                X     X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-21

```
                        BACKGROUND MAP ASSOC EDIT SCREEN           PAGE  1 OF  1
COMMAND: AD,*****,B,78,
FEEDBACK:                                                           OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an "X" under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  78   Prod Name: OHP
                                MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X X   X X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-22

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,79,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  79   Prod Name: THP
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X X   X X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-23

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,80,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an “X” under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  80   Prod Name: STP
                             MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
    X X   X X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-24

```
                        BACKGROUND MAP ASSOC EDIT SCREEN          PAGE  1 OF  1
COMMAND: AD,*****,B,90,
FEEDBACK:                                                          OPER A/

Select one: (M)odify  (E)nd  (C)ancel
Place an "X" under the background maps to be paired with this product.
No more than  6 maps per product.
                                          Prod Id:  90   Prod Name: LRM
                                  MAP NUMBER
                      1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3
    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2
    ---------------------------------------------------------------
                X     X
    ---------------------------------------------------------------

 1. State        7. Airport        13. Rstrctd Area
 2. County       8. Airway(High)   14. Prohbtd Area
 3. Highway      9. Airway(Low)    15. Radar Sites
 4. River       10. NAVAID         16. City Names
 5. River Basin 11. Warning Area   17. County Names
 6. LFM Grid    12. Mil Ops Area   18. 18-32 na
```

Figure 3.3-25

3.4 Clutter Suppression Control - URC LOCA

Clutter suppression is used to remove the power returned by clutter targets from a range bin ***prior*** to the calculation of the base data.

Ground clutter and anomalous propagation (AP) contamination has a significant effect on the accuracy of the base data. The clutter induced bias in the base data not only brings into question the reliability of the data presented on the base products but also has a detrimental effect on ***all*** downstream algorithms.

Clutter suppression filters are designed to reduce the power of those signals whose mean radial velocity is at or near zero. To do this, clutter suppression filters reduce signal power within a “notch width” centered about the zero mean radial velocity value. This reduction in signal power effectively decreases the clutter's power contribution in the given range bin. To maintain meteorological return integrity, only the signal power whose radial motion falls within the notch width is reduced. Therefore, with appropriate clutter suppression invoked, the bias in the base data (R, V and SW) estimates due to clutter contamination within the range bin can be minimized.

The clutter suppression regions defined on lines (Regions) 1 and 2 in the following example screens ensure the normal ground clutter pattern, as defined by the Bypass Map, is addressed. These two line should always be included in each clutter suppression region file definition. Additional regions (operator select code 2 forcing clutter suppression) should be defined on line three and subsequent lines as needed to address transient clutter (e. g., AP).

3.4.1 Clutter Suppression Region File 11

```
                          CLUTTER SUPPRESSION REGIONS              PAGE  1 OF  2
COMMAND: AD,*****,CL,C, 11,
FEEDBACK:                                                           OPER A/

(M)odify, {LINE#}               (DE)lete, {LINE#}           (DO)wnload
(E)nd                           (C)ancel

         Start  Stop   Start   Stop    Elev Seg  Operator     Channel Width
Region   Range  Range Azimuth Azimuth   Number   Sel Code     D          S
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
   1        2    510      0     360       1         1         2          2
   2        2    510      0     360       2         1         2          2
   3        0      0      0       0       0         0         0          0
   4        0      0      0       0       0         0         0          0
   5        0      0      0       0       0         0         0          0
   6        0      0      0       0       0         0         0          0
   7        0      0      0       0       0         0         0          0
   8        0      0      0       0       0         0         0          0
```

Figure 3.4-1

3.4.2 Clutter Suppression Region File 21

```
                          CLUTTER SUPPRESSION REGIONS              PAGE  1 OF  2
COMMAND: AD,*****,CL,C, 21,
FEEDBACK:                                                           OPER A/

(M)odify, {LINE#}               (DE)lete, {LINE#}           (DO)wnload
(E)nd                           (C)ancel

         Start  Stop   Start   Stop    Elev Seg  Operator     Channel Width
Region   Range  Range Azimuth Azimuth   Number   Sel Code     D          S
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
   1        2    510      0     360       1         1         2          2
   2        2    510      0     360       2         1         2          2
   3        0      0      0       0       0         0         0          0
   4        0      0      0       0       0         0         0          0
   5        0      0      0       0       0         0         0          0
   6        0      0      0       0       0         0         0          0
   7        0      0      0       0       0         0         0          0
   8        0      0      0       0       0         0         0          0
```

Figure 3.4-2

3.4.3 Clutter Suppression Region File 31

```
                        CLUTTER SUPPRESSION REGIONS              PAGE  1 OF  2
COMMAND: AD,*****,CL,C, 31,
FEEDBACK:                                                          OPER A/

(M)odify, {LINE#}               (DE)lete, {LINE#}           (DO)wnload
(E)nd                           (C)ancel

         Start  Stop   Start   Stop    Elev Seg  Operator     Channel Width
Region   Range  Range Azimuth Azimuth   Number   Sel Code     D          S
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
   1        2    510      0     360       1         1         2          2
   2        2    510      0     360       2         1         2          2
   3        0      0      0       0       0         0         0          0
   4        0      0      0       0       0         0         0          0
   5        0      0      0       0       0         0         0          0
   6        0      0      0       0       0         0         0          0
   7        0      0      0       0       0         0         0          0
   8        0      0      0       0       0         0         0          0
```

Figure 3.4-3

3.4.4 Clutter Suppression Region File 32

```
                        CLUTTER SUPPRESSION REGIONS              PAGE  1 OF  2
COMMAND: AD,*****,CL,C, 32,
FEEDBACK:                                                          OPER A/

(M)odify, {LINE#}               (DE)lete, {LINE#}           (DO)wnload
(E)nd                           (C)ancel

         Start  Stop   Start   Stop    Elev Seg  Operator     Channel Width
Region   Range  Range Azimuth Azimuth   Number   Sel Code     D          S
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
   1        2    510      0     360       1         1         2          2
   2        2    510      0     360       2         1         2          2
   3        0      0      0       0       0         0         0          0
   4        0      0      0       0       0         0         0          0
   5        0      0      0       0       0         0         0          0
   6        0      0      0       0       0         0         0          0
   7        0      0      0       0       0         0         0          0
   8        0      0      0       0       0         0         0          0
```

Figure 3.4-4

3.4.5 Supplemental Information - Operator-Defined Clutter Suppression Regions

The UCP operator may specify up to 15 individual regions per each of the four Clutter Suppression Region Files (11, 21, 31, 32). (**Note:** Clutter Suppression Region Files are not associated with any ***specific*** VCP.) Each region is delineated by start and stop ranges, start and stop azimuths, and an elevation segment number. The elevation segment number specifies which set of predefined elevation slices to include within the region definition. The elevations included in the different segments are defined in the RDA adaptation data.

The Clutter Suppression Regions are used to control the application of clutter suppression within the defined area by selecting from the options listed below.

Options for Clutter Suppression Within Operator-Defined Regions. Within each operator-defined region, the UCP operator has three choices to determine how filtering will be invoked.

a. No Clutter Suppression: Operator Select Code 0. This selection will turn off ***ALL*** filtering, including the Bypass Map identified areas, within the confines of the operator-defined region.

b. Bypass Map in Control Using the Operator-Specified Notch Width: Operator Select Code 1. This selection will invoke the selected suppression level (notch width) for each area identified by the Bypass Map within the confines of the operator-defined region.

c. Forced Clutter Suppression Using the Operator-Specified Notch Width: Operator Select Code 2. This option forces the specified suppression level (notch width) for ***every*** range bin within the confines of the operator-defined region.

Notch Width Selections. There are three notch width selections, or levels of suppression, available for inclusion in the Default Notch Width Map definitions and Clutter Suppression Region definitions (with Operator Select Codes 1 or 2). The notch width determines the target motions, around zero radial velocity, that will be subjected to signal power reduction (suppression). The Surveillance channel and Doppler channel are suppressed using different notch width values (see Table 3.4 - 1) to reduce base data estimate bias in the different channels.

a. Notch Width Selection 1. Invokes a suppression level of approximately 30 dB (Low). See Table 3.4 - 1 for typical notch width values.

b. Notch Width Selection 2. Invokes a suppression level of approximately 40 dB (Medium). See Table 3.4 - 1 for typical notch width values.

c. Notch Width Selection 3. Invokes a suppression level of approximately 50 dB (High). See Table 3.4 - 1 for typical notch width values.

Table 3.4 - 1: Notch Width Selections and Suppression Values

Notch Width Selection	**1**		**2**		**3**	
Channel	**kts**	**dB**	**kts**	**dB**	**kts**	**dB**
Surveillance	3.38 (±1.69)	≈30	4.85 (±2.43)	≈40	6.79 (±3.40)	≈50
Doppler	4.58 (±2.29)	≈30	6.05 (±3.03)	≈40	8.92 (±4.46)	≈50

NOTE

By design, the notch widths vary based upon antenna rotation rate. Therefore, the value listed in Table 3.4 - 1 is an approximation and varies with elevation angle and antenna rotation rate.

With regard to forced clutter suppression, the SMALLEST AREA and LOWEST LEVEL of suppression that will properly remove the ground clutter or anomalous propagation contamination of the base data should always be used. Indiscriminate use of the highest suppression level (Notch Width 3) over all azimuths, ranges, and elevation angles has strong detrimental effects on the integrity of all reflectivity and reflectivity-based products such as precipitation and VIL in those regions of real meteorological echo that are located along the zero radial velocity isodop.

3.4.6 Additional Reference Material

For additional information concerning the application of clutter filtering, refer to the following papers:

WSR-88D Clutter Suppression and Its Impact On Meteorological Data Interpretation, Chrisman, et al, Jan 1995, and

An Introduction to the WSR-88D Clutter Suppression, and Some Tips for Effective Suppression Utilization, Goss and Chrisman, 1995.

3.4.7 Bypass Map Editor

This menu allows the UCP operator to edit the RDASOT-generated Bypass Map.

```
                          CLUTTER BYPASS FILTER EDITOR            PAGE  1 OF  1
COMMAND: AD,*****,CL,B,
FEEDBACK:                                                          OPER A/

(EX)amine, {SEG#, RAD#, KM}     (M)odify, {(H)EX / (B)INARY}
(CA)ncel     (R)equest      (D)ownload      (CR)eate     (EN)d

RANGE    -+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
            0     4     9     1     1     2     2     3     3     4     4     5
                  8     6     4     9     4     8     3     8     3     8     1
SEGMENT#:                     4     2     0     8     6     4     2     0     2
RADIAL#:
       +-------------------------+------+-------------------------+
       |                         |      |                         |
       +-------------------------+------+-------------------------+
KM

                     +------+------+------+------+  (Note: 0 means perform
             HEX:    |      |      |      |      |   clutter filtering; 1 means
             BINARY: |      |      |      |      |   bypass the clutter filter;
                     +------+------+------+------+   HEX “F” = BINARY “1111”)
```

Figure 3.4-5

3.5 Adaptation Generation and Distribution Control Lists

The Generation and Distribution Control list (GDCL) ensures product generation and product availability to support the requirements of the National Archives (Archive Level III), Nonassociated PUPs (NAPUPs), PUES (AFOS), and Other Users (NIDS). The GDCL ***DOES NOT*** impact the availability of products for Associated PUPs (APUPs), including the Collocated PUP (RPGOP). Products generated and distributed to the APUPs are determined by their individual Routine Product Set (RPS) lists, operator-initiated one-time requests, and operator-specified alert-paired products.

3.5.1 Mode A (Precipitation) List

This Generation and Distribution Control list must specify, at a minimum, the product generation, archive and availability requirements defined in FMH-11, Part A, Table 7-1. Additional products may be added for generation and NAPUP distribution, however, these additional products must not be archived or distributed to the Other Users (see section 3.5.3). This GDCL list will be automatically invoked upon RPG restart or weather mode change from Clear-Air Mode (Mode B) to the Precipitation Mode (Mode A).

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  1 OF 10
COMMAND: AD,*****,G,A,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
 1  R      8 .54    0.0     0.0      0.0     0   0   0    0
 2  R      8 1.1    0.0     0.0      0.0     0   0   0    0
 3  R      8 2.2    0.0     0.0      0.0     0   0   0    0
 4  R     16 .54   -4.0     0.0      0.0     1  -1   1  180   Y            1
 5  R     16 1.1   -1.0     0.0      0.0     1  -1   1  180   Y            1
 6  R     16 2.2    0.0     0.0      0.0     0   0   0    0
 7  V      8 .13    0.0     0.0      0.0     0   0   0    0
 8  V      8 .27    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-1

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  2 OF 10
COMMAND: AD,*****,G,A,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
 9  V      8 .54    0.0     0.0      0.0     0   0   0    0
10  V     16 .13   -1.0     0.0      0.0     1  -1   1  180   Y
11  V     16 .27    0.0     0.0      0.0     0   0   0    0
12  V     16 .54   -4.0     0.0      0.0     1  -1   1  180   Y            1
13  SW     8 .13   -1.0     0.0      0.0     1  -1   1  180   Y
14  SW     8 .27    0.0     0.0      0.0     0   0   0    0
15  SW     8 .54   -4.0     0.0      0.0     1  -1   1  180   Y
16  USP   16 1.1    0.0    12.0     24.0     1   0   1  360   Y
```

Figure 3.5-2

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  3 OF 10
COMMAND: AD,*****,G,A,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
17  DHR  256 .54    0.0     0.0      0.0     0   0   0    0
18  DSP  256 1.1    0.0     0.0      0.0     0   0   0    0
19  CFC    8 .54    0.0     0.0      0.0     1   1   1  360   Y
20  CR     8 .54    0.0     0.0      0.0     0   0   0    0
21  CR     8 2.2    0.0     0.0      0.0     0   0   0    0
22  CR    16 .54    0.0     0.0      0.0     0   0   0    0
23  CR    16 2.2    0.0     0.0      0.0     1   3   1  180   Y            1
24  CRC      .54    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-3

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  4 OF 10
COMMAND: AD,*****,G,A,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
25  CRC      2.2    0.0     0.0      0.0     0   0   0    0
26  ET    16 2.2    0.0     0.0      0.0     1   3   1  180   Y            1
27  ETC      2.2    0.0     5.0      0.0     0   0   0    0
28  SWR   16 .54    0.0     0.0      0.0     0   0   0    0
29  SWV   16 .13    0.0     0.0      0.0     0   0   0    0
30  SWW   16 .13    0.0     0.0      0.0     0   0   0    0
31  SWS   16 .27    0.0     0.0      0.0     0   0   0    0
32  SWP    4 2.2    0.0     0.0      0.0     1   1   1  180   Y
```

Figure 3.5-4

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  5 OF 10
COMMAND: AD,*****,G,A,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
33  VWP             0.0     0.0      0.0     1   6   1  180   Y            1
34  CM              0.0     0.0      0.0     0   0   0    0
35  RCS   16        0.0    90.0    124.0     0   0   0    0
36  VCS   16        0.0    90.0    124.0     0   0   0    0
37  SCS    8        0.0    90.0    124.0     0   0   0    0
38  WER    8 .54    0.0     0.0      0.0     0   0   0    0
39                  0.0     0.0      0.0     0   0   0    0
40  SRR   16 .27    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-5

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  6 OF 10
COMMAND: AD,*****,G,A,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
41  SRM   16 .54   -2.0     0.0      0.0     1  -1   1  180   Y            1
42  VIL   16 2.2    0.0     0.0      0.0     1   1   1  180   Y            1
43  STI             0.0     0.0      0.0     1   1   1  180   Y
44  HI              0.0     0.0      0.0     1   1   1  180   Y
45  M               0.0     0.0      0.0     1   1   1  180   Y
46  TVS             0.0     0.0      0.0     1   1   1  180   Y
47  SS              0.0     0.0      0.0     1   3   1  180   Y
48  LRA    8 2.2    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-6

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  7 OF 10
COMMAND: AD,*****,G,A,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
49  LRA    8 2.2    0.0     0.0      0.0     0   0   0    0
50  LRM    8 2.2    0.0     0.0      0.0     1   0   1  180   Y            1
51  LRM    8 2.2    0.0     0.0      0.0     1   0   1  180   Y            1
52  LTA    8 2.2    0.0     0.0      0.0     0   0   0    0
53  LTA    8 2.2    0.0     0.0      0.0     0   0   0    0
54  LTA    8 2.2    0.0     0.0      0.0     0   0   0    0
55  LTM    8 2.2    0.0     0.0      0.0     0   0   0    0
56  LTM    8 2.2    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-7

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  8 OF 10
COMMAND: AD,*****,G,A,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                    AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
57  LTM    8 2.2    0.0     0.0      0.0     0   0   0    0
58  UAM             0.0     0.0      0.0     0   0   0    0
59  RCM             0.0     0.0      0.0     1   1   1  180   Y    1
60  FTM             0.0     0.0      0.0     0   0   0    0
61                  0.0     0.0      0.0     0   0   0    0
62                  0.0     0.0      0.0     0   0   0    0
63  OHP   16 1.1    0.0     0.0      0.0     1   3   1  180   Y            1
64  THP   16 1.1    0.0     0.0      0.0     1   0   1  180   Y            1
```

Figure 3.5-8

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  9 OF 10
COMMAND: AD,*****,G,A,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                    AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
65  STP   16 1.1    0.0     0.0      0.0     1   3   1  180   Y            1
66  DPA  256        0.0     0.0      0.0     1   1   1  180   Y    1   1   1
67  SPD             0.0     0.0      0.0     1   1   1  180   Y    1   1
68  IRM             0.0     0.0      0.0     1   1   1  180
69  VAD    8        1.0     0.0      0.0     0   0   0    0
70  RCS    8        0.0    90.0    124.0     0   0   0    0
71  VCS    8        0.0    90.0    124.0     0   0   0    0
72  CS    16        0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-9

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE 10 OF 10
COMMAND: AD,*****,G,A,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
73  CSC             0.0     0.0      0.0     0   0   0    0
74  LRA    8 2.2    0.0     0.0      0.0     0   0   0    0
75  LRM    8 2.2    0.0     0.0      0.0     1   0   1  180   Y            1
```

Figure 3.5-10

3.5.2 Mode B (Clear-Air) List

This Generation and Distribution Control list must specify, at a minimum, the product generation, archive and availability requirements defined in FMH-11, Part A, Table 7-2. Additional products may be added for generation and NAPUP distribution, however, these additional products must not be archived or distributed to the Other Users. This GDCL list will be automatically invoked upon RPG restart or weather mode change from Precipitation Mode (Mode A) to the Clear-Air Mode (Mode B)

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  1 OF 10
COMMAND: AD,*****,G,B,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
 1  R      8 .54    0.0     0.0      0.0     0   0   0    0
 2  R      8 1.1    0.0     0.0      0.0     0   0   0    0
 3  R      8 2.2   -1.0     0.0      0.0     1   0   1  180   Y
 4  R     16 .54   -4.0     0.0      0.0     1  -1   1  180   Y            1
 5  R     16 1.1    0.0     0.0      0.0     0   0   0    0
 6  R     16 2.2    0.0     0.0      0.0     0   0   0    0
 7  V      8 .13    0.0     0.0      0.0     0   0   0    0
 8  V      8 .27    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-11

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  2 OF 10
COMMAND: AD,*****,G,B,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
 9  V      8 .54    0.0     0.0      0.0     0   0   0    0
10  V     16 .13   -1.0     0.0      0.0     1  -1   1  180   Y
11  V     16 .27   -3.0     0.0      0.0     1   0   1  180   Y
12  V     16 .54   -4.0     0.0      0.0     1  -1   1  180   Y            1
13  SW     8 .13   -1.0     0.0      0.0     1  -1   1  180   Y
14  SW     8 .27   -3.0     0.0      0.0     1   0   1  180   Y
15  SW     8 .54   -4.0     0.0      0.0     1  -1   1  180   Y
16  USP   16 1.1    0.0    12.0     24.0     1   0   1  360   Y
```

Figure 3.5-12

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  3 OF 10
COMMAND: AD,*****,G,B,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
17  DHR  256 .54    0.0     0.0      0.0     0   0   0    0
18  DSP  256 1.1    0.0     0.0      0.0     0   0   0    0
19  CFC    8 .54    0.0     0.0      0.0     1   1   1  360   Y
20  CR     8 .54    0.0     0.0      0.0     0   0   0    0
21  CR     8 2.2    0.0     0.0      0.0     1   3   1  180   Y            1
22  CR    16 .54    0.0     0.0      0.0     0   0   0    0
23  CR    16 2.2    0.0     0.0      0.0     1   3   1  180   Y            1
24  CRC      .54    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-13

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  4 OF 10
COMMAND: AD,*****,G,B,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
25  CRC      2.2    0.0     0.0      0.0     0   0   0    0
26  ET    16 2.2    0.0     0.0      0.0     0   0   0    0
27  ETC      2.2    0.0     5.0      0.0     0   0   0    0
28  SWR   16 .54    0.0     0.0      0.0     0   0   0    0
29  SWV   16 .13    0.0     0.0      0.0     0   0   0    0
30  SWW   16 .13    0.0     0.0      0.0     0   0   0    0
31  SWS   16 .27    0.0     0.0      0.0     0   0   0    0
32  SWP    4 2.2    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-14

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  5 OF 10
COMMAND: AD,*****,G,B,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                    AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
33  VWP             0.0     0.0      0.0     1   6   1  180   Y            1
34  CM              0.0     0.0      0.0     0   0   0    0
35  RCS   16        0.0    90.0    124.0     0   0   0    0
36  VCS   16        0.0    90.0    124.0     0   0   0    0
37  SCS    8        0.0    90.0    124.0     0   0   0    0
38  WER    8 .54    0.0     0.0      0.0     0   0   0    0
39                  0.0     0.0      0.0     0   0   0    0
40  SRR   16 .27    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-15

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  6 OF 10
COMMAND: AD,*****,G,B,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                    AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
41  SRM   16 .54    0.0     0.0      0.0     0   0   0    0
42  VIL   16 2.2    0.0     0.0      0.0     0   0   0    0
43  STI             0.0     0.0      0.0     0   0   0    0
44  HI              0.0     0.0      0.0     0   0   0    0
45  M               0.0     0.0      0.0     0   0   0    0
46  TVS             0.0     0.0      0.0     0   0   0    0
47  SS              0.0     0.0      0.0     0   0   0    0
48  LRA    8 2.2    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-16

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  7 OF 10
COMMAND: AD,*****,G,B,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
49  LRA    8 2.2    0.0     0.0      0.0     0   0   0    0
50  LRM    8 2.2    0.0     0.0      0.0     0   0   0    0
51  LRM    8 2.2    0.0     0.0      0.0     0   0   0    0
52  LTA    8 2.2    0.0     0.0      0.0     0   0   0    0
53  LTA    8 2.2    0.0     0.0      0.0     0   0   0    0
54  LTA    8 2.2    0.0     0.0      0.0     0   0   0    0
55  LTM    8 2.2    0.0     0.0      0.0     0   0   0    0
56  LTM    8 2.2    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-17

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  8 OF 10
COMMAND: AD,*****,G,B,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                   AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
57  LTM    8 2.2    0.0     0.0      0.0     0   0   0    0
58  UAM             0.0     0.0      0.0     0   0   0    0
59  RCM             0.0     0.0      0.0     1   1   1  180   Y    1
60  FTM             0.0     0.0      0.0     0   0   0    0
61                  0.0     0.0      0.0     0   0   0    0
62                  0.0     0.0      0.0     0   0   0    0
63  OHP   16 1.1    0.0     0.0      0.0     1   0   1  180   Y            1
64  THP   16 1.1    0.0     0.0      0.0     1   0   1  180   Y            1
```

Figure 3.5-18

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE  9 OF 10
COMMAND: AD,*****,G,B,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                    AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
65  STP   16 1.1    0.0     0.0      0.0     1   0   1  180   Y            1
66  DPA  256        0.0     0.0      0.0     1   1   1  180   Y    1   1   1
67  SPD             0.0     0.0      0.0     1   1   1  180   Y    1   1
68  IRM             0.0     0.0      0.0     1   1   1  180
69  VAD    8        0.0     0.0      0.0     0   0   0    0
70  RCS    8        0.0    90.0    124.0     0   0   0    0
71  VCS    8        0.0    90.0    124.0     0   0   0    0
72  CS    16        0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-19

```
                ADAPTATION GENERATION AND DISTRIBUTION CONTROL     PAGE 10 OF 10
COMMAND: AD,*****,G,B,
FEEDBACK:                                                           OPER A/
Select menu item.

(M)odify, {LINE#}        (D)elete, {LINE#}         (C)ancel
(P)age, {N PAGES}        (E)nd

         DTA                                    AUT AUT  STO  NA           OTH
 N  PROD LVL RES  SLICE  PARAM 1  PARAM 2  GEN ARC STO  TIM  PUP PUES RFC USR
 ---------------------------------------------------------------------------

---------------------------------------------------------------------------
73  CSC             0.0     0.0      0.0     0   0   0    0
74  LRA    8 2.2    0.0     0.0      0.0     0   0   0    0
75  LRM    8 2.2    0.0     0.0      0.0     0   0   0    0
```

Figure 3.5-20

3.5.3 Supplemental Information

The WSR-88D RPG supports three Generation and Distribution Control lists. Two of these lists (one for each weather mode) are stored in the RPG adaptation data and should reflect the requirements specified in FMH-11 Part A, Tables 7-1 and 7-2. These two adaptation lists are permanent and are automatically activated upon an RPG reboot or a weather mode change. The third GDCL is maintained in memory and is the currently active list. This “current” GDCL is used to determine the RPG's contribution to the master product generation and distribution list for the current volume scan. The “current” GDCL is temporary and will be replaced each time the RPG is rebooted or the weather mode changes.

The GDCL specifies the minimum set of products and which elevation angles of elevation-based products to generate each volume scan. Additionally, the GDCL specifies which product types will be automatically distributed to the Other User ports (NIDS). The GDCL controls the distribution of product types to the Other User ports, but not specific elevation angles. Therefore, if an elevation-based product is generated and that product type is enabled for Other User port distribution, every elevation angle generated will be automatically sent to the Other User port.

In the past, sites have modified their Adaptation GDCLs to always force generation (and therefore, NIDS distribution) of several additional elevation angles of elevation-based base products each volume scan above those specified in FMH-11. These additional products being automatically distributed to the NIDS vendors are causing narrowband loadshedding problems.

If it is desired to make additional elevation angles of NIDS-authorized products available for NAPUP requests, add those elevation angles to your RPS list. As long as the product type is enabled for NAPUP distribution on the GDCL, a NAPUP may request any available elevation angle of that product, regardless of the source forcing its generation.

3.6 Load Shedding Control

The RPG continuously monitors the utilization levels of its data input rate, data processing, storage, and distribution functions. When load control measures are warranted, the load shedding control menus ensure systematic control of load shedding. This systematic control ensures that the most important data is always available to support operations.

3.6.1 Load Shed Categories, Mode A

When any utilization level reaches its predetermined threshold, the RPG initiates automatic load control measures to ensure continued RPG operation. This Load Shed Category menu sets the threshold values for Weather Mode A.

```
                              LOAD SHED CATEGORIES                 PAGE  1 OF  1
COMMAND: AD,*****,L,C,A,
FEEDBACK:                                                           OPER A/

(M)odify,{LINE#}     (E)nd      (C)ancel


 N     Category             Warn   Alarm
-----------------------------------------

-----------------------------------------
 1   CPU                     85      95
 2   MEMORY                 100     100
 3   DISTRIBUTION            95     100
 4   STORAGE                 75      98
 5   INPUT BUFFER            85      90
 6   ARCHIVE III             95     100
 7   WIDEBAND USER           50      75
```

Figure 3.6-1

3.6.2 Load Shed Categories, Mode B

When any utilization level reaches its predetermined threshold, the RPG initiates automatic load control measures to ensure continued RPG operation. This Load Shed Category menu sets the threshold values for Weather Mode B.

```
                              LOAD SHED CATEGORIES                 PAGE  1 OF  1
COMMAND: AD,*****,L,C,B,
FEEDBACK:                                                           OPER A/

(M)odify,{LINE#}     (E)nd      (C)ancel


 N     Category             Warn   Alarm
-----------------------------------------

-----------------------------------------
 1   CPU                     85      95
 2   MEMORY                 100     100
 3   DISTRIBUTION            95     100
 4   STORAGE                 75      98
 5   INPUT BUFFER            85      90
 6   ARCHIVE III             95     100
 7   WIDEBAND USER           50      75
```

Figure 3.6-2

3.6.3 Load Shed Products, Mode A

When load shedding occurs, the goal is to ensure that products critical to the decision making process continue to be available at the expense of lower priority products. These Load Shed Products menus set the relative product priorities (the higher the number, the higher the priority) for Weather Mode A.

```
                              LOAD SHED PRODUCTS                   PAGE  1 OF 10
COMMAND: AD,*****,L,P,A,
FEEDBACK:                                                           OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
-------------------------------------

-------------------------------------
 1  R          8     .54       56
 2  R          8     1.1       55
 3  R          8     2.2       54
 4  R         16     .54       89
 5  R         16     1.1       88
 6  R         16     2.2       87
 7  V          8     .13       53
 8  V          8     .27       52
```

Figure 3.6-3

```
                                LOAD SHED PRODUCTS                  PAGE  2 OF 10
COMMAND: AD,*****,L,P,A,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
 9  V          8     .54       51
10  V         16     .13       86
11  V         16     .27       85
12  V         16     .54       84
13  SW         8     .13       60
14  SW         8     .27       59
15  SW         8     .54       58
16  USP       16     1.1       57
```

Figure 3.6-4

```
                                LOAD SHED PRODUCTS                  PAGE  3 OF 10
COMMAND: AD,*****,L,P,A,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
17  DHR      256     .54       57
18  DSP      256     1.1        0
19  CFC        8     .54       99
20  CR         8     .54       48
21  CR         8     2.2       47
22  CR        16     .54       76
23  CR        16     2.2       75
24  CRC              .54       44
```

Figure 3.6-5

```
                                LOAD SHED PRODUCTS                  PAGE  4 OF 10
COMMAND: AD,*****,L,P,A,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
25  CRC              2.2       43
26  ET        16     2.2       66
27  ETC              2.2       45
28  SWR       16     .54       94
29  SWV       16     .13       93
30  SWW       16     .13       92
31  SWS       16     .27       46
32  SWP        4     2.2       69
```

Figure 3.6-6

```
                                LOAD SHED PRODUCTS                  PAGE  5 OF 10
COMMAND: AD,*****,L,P,A,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
33  VWP                       82
34  CM                        96
35  RCS       16              98
36  VCS       16              97
37  SCS        8              95
38  WER        8     .54      99
39                           0
40  SRR       16     .27      67
```

Figure 3.6-7

```
                                LOAD SHED PRODUCTS                  PAGE  6 OF 10
COMMAND: AD,*****,L,P,A,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
41  SRM       16     .54       68
42  VIL       16     2.2       83
43  STI                        74
44  HI                         72
45  M                          71
46  TVS                        70
47  SS                         73
48  LRA        8     2.2       42
```

Figure 3.6-8

```
                                LOAD SHED PRODUCTS                  PAGE  7 OF 10
COMMAND: AD,*****,L,P,A,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
49  LRA        8     2.2       41
50  LRM        8     2.2       63
51  LRM        8     2.2       62
52  LTA        8     2.2       37
53  LTA        8     2.2       36
54  LTA        8     2.2       35
55  LTM        8     2.2       34
56  LTM        8     2.2       33
```

Figure 3.6-9

```
                                LOAD SHED PRODUCTS                  PAGE  8 OF 10
COMMAND: AD,*****,L,P,A,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
-------------------------------------

-------------------------------------
57  LTM        8     2.2       32
58  UAM                        91
59  RCM                        65
60  FTM                        90
61                             0
62                             0
63  OHP       16     1.1       81
64  THP       16     1.1       77
```

Figure 3.6-10

```
                                LOAD SHED PRODUCTS                  PAGE  9 OF 10
COMMAND: AD,*****,L,P,A,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
-------------------------------------

-------------------------------------
65  STP       16     1.1       78
66  DPA      256               80
67  SPD                        79
68  IRM                        64
69  VAD        8               57
70  RCS        8               50
71  VCS        8               49
72  CS        16               39
```

Figure 3.6-11

```
                                LOAD SHED PRODUCTS                  PAGE 10 OF 10
COMMAND: AD,*****,L,P,A,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
73  CSC                         38
74  LRA        8     2.2       40
75  LRM        8     2.2       61
```

Figure 3.6-12

3.6.4 Load Shed Products, Mode B

When load shedding occurs, the goal is to ensure that products critical to the decision making process continue to be available at the expense of lower priority products. These Load Shed Products menus set the relative product priorities (the higher the number, the higher the priority) for Weather Mode B.

```
                                LOAD SHED PRODUCTS                  PAGE  1 OF 10
COMMAND: AD,*****,L,P,B,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
 1  R          8     .54       56
 2  R          8     1.1       55
 3  R          8     2.2       54
 4  R         16     .54       89
 5  R         16     1.1       88
 6  R         16     2.2       87
 7  V          8     .13       53
 8  V          8     .27       52
```

Figure 3.6-13

```
                                LOAD SHED PRODUCTS                  PAGE  2 OF 10
COMMAND: AD,*****,L,P,B,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
-------------------------------------

-------------------------------------
 9  V          8     .54       51
10  V         16     .13       86
11  V         16     .27       85
12  V         16     .54       84
13  SW         8     .13       60
14  SW         8     .27       59
15  SW         8     .54       58
16  USP       16     1.1       57
```

Figure 3.6-14

```
                                LOAD SHED PRODUCTS                  PAGE  3 OF 10
COMMAND: AD,*****,L,P,B,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
-------------------------------------

-------------------------------------
17  DHR      256     .54       57
18  DSP      256     1.1        0
19  CFC        8     .54       99
20  CR         8     .54       48
21  CR         8     2.2       47
22  CR        16     .54       76
23  CR        16     2.2       75
24  CRC              .54       44
```

Figure 3.6-15

```
                                LOAD SHED PRODUCTS                  PAGE  4 OF 10
COMMAND: AD,*****,L,P,B,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
25  CRC              2.2       43
26  ET        16     2.2       66
27  ETC              2.2       45
28  SWR       16     .54       94
29  SWV       16     .13       93
30  SWW       16     .13       92
31  SWS       16     .27       46
32  SWP        4     2.2       69
```

Figure 3.6-16

```
                                LOAD SHED PRODUCTS                  PAGE  5 OF 10
COMMAND: AD,*****,L,P,B,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
33  VWP                          82
34  CM                           96
35  RCS       16                 98
36  VCS       16                 97
37  SCS        8                 95
38  WER        8     .54         99
39                                0
40  SRR       16     .27         67
```

Figure 3.6-17

```
                                LOAD SHED PRODUCTS                  PAGE  6 OF 10
COMMAND: AD,*****,L,P,B,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
41  SRM       16     .54       68
42  VIL       16     2.2       83
43  STI                        74
44  HI                         72
45  M                          71
46  TVS                        70
47  SS                         73
48  LRA        8     2.2       42
```

Figure 3.6-18

```
                                LOAD SHED PRODUCTS                  PAGE  7 OF 10
COMMAND: AD,*****,L,P,B,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
49  LRA        8     2.2       41
50  LRM        8     2.2       63
51  LRM        8     2.2       62
52  LTA        8     2.2       37
53  LTA        8     2.2       36
54  LTA        8     2.2       35
55  LTM        8     2.2       34
56  LTM        8     2.2       33
```

Figure 3.6-19

```
                                LOAD SHED PRODUCTS                  PAGE  8 OF 10
COMMAND: AD,*****,L,P,B,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
57  LTM        8     2.2       32
58  UAM                        91
59  RCM                        65
60  FTM                        90
61                              0
62                              0
63  OHP       16     1.1       81
64  THP       16     1.1       77
```

Figure 3.6-20

```
                                LOAD SHED PRODUCTS                  PAGE  9 OF 10
COMMAND: AD,*****,L,P,B,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
65  STP       16     1.1       78
66  DPA      256               80
67  SPD                        79
68  IRM                        64
69  VAD        8               57
70  RCS        8               50
71  VCS        8               49
72  CS        16               39
```

Figure 3.6-21

```
                                LOAD SHED PRODUCTS                  PAGE 10 OF 10
COMMAND: AD,*****,L,P,B,
FEEDBACK:                                                            OPER A/

(M)odify,{LINE#}       (E)nd      (C)ancel           (P)age, {N PAGES}



 N  Prod   Dta Lvl   Res    Priority
------------------------------------

------------------------------------
73  CSC                         38
74  LRA        8     2.2       40
75  LRM        8     2.2       61
```

Figure 3.6-22

3.7 Adaptation (Remote) Volume Coverage Pattern (VCP) Definitions

The WSR-88D system supports two sets of volume coverage patterns. The “local” set are stored on the RDA hard drive and are not modifiable. Local VCPs 11 and 21 are defined with PRF selection #5. The “remote” set are stored on the RPG hard drive in adaptation data. Remote VCPs 11 and 21 are defined with PRF selection #4. With different PRF selections defined for the remote and local VCP sets, the UCP operator can change the unambiguous range of the velocity data by simply switching between the remote and local VCP. Additionally, the signal-to-noise ratio (SNR) threshold for the remote VCPs will allow more weak return to be processed and displayed. To invoke one of the remote VCPs, you must ***download*** the desired VCP number to the RDA.

3.7.1 VCP 11

Remote VCP 11 is defined with a PRF selection #4 (unambiguous range of 94 nm) through 6.2 degrees elevation, while the local VCP 11 (stored on the RDA hard drive) is defined with PRF selection #5 (unambiguous range of 80 nm).

```
                              VOLUME COVERAGE PATTERN                PAGE  1 OF  2
COMMAND: AD,*****,V,*****, 11,
FEEDBACK:                                                             OPER A/

   VCP    11/ A       (M)odify, {EL#/(A)LL}     (E)nd      (C)ancel
     SHORT Pulse      (S)elect Range, {NM}      (V)el, { .97 / 1.94 }

  ELEV  |  SCAN  |WF|  SURV  |  SECT 1 |  SECT 2 |  SECT 3 |              |CLTR
no.| ang|rate|per|  |prf| #  | az  |prf| az  |prf| az  |prf| SUR| DOP| WTH|map
   | deg|rpm |sec|  | # |plse| deg | # | deg | # | deg | # | thr| thr| thr|
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
  1  0.5  3.1  19 CS   1  17    0.0  0    0.0  0    0.0  0    16   16   16   1
  2  0.5  3.2  19 CD   0   0   30.0  4  210.0  4  335.0  4    28   28   28   1
  3  1.5  3.3  18 CS   1  16    0.0  0    0.0  0    0.0  0    16   16   16   1
  4  1.5  3.2  19 CD   0   0   30.0  4  210.0  4  335.0  4    28   28   28   1
  5  2.4  2.7  22  B   1   6   30.0  4  210.0  4  335.0  4    28   28   28   1
  6  3.4  3.0  20  B   2   6   30.0  4  210.0  4  335.0  4    28   28   28   1
  7  4.3  3.0  20  B   2   6   30.0  4  210.0  4  335.0  4    28   28   28   1
  8  5.3  2.9  21  B   3  10   30.0  4  210.0  4  335.0  4    28   28   28   1
```

Figure 3.7-1

```
                              VOLUME COVERAGE PATTERN                PAGE  2 OF  2
COMMAND: AD,*****,V,*****, 11,
FEEDBACK:                                                             OPER A/

   VCP    11/ A       (M)odify, {EL#/(A)LL}     (E)nd      (C)ancel
     SHORT Pulse      (S)elect Range, {NM}      (V)el, { .97 / 1.94 }

  ELEV  |  SCAN  |WF|  SURV  |  SECT 1 |  SECT 2 |  SECT 3 |              |CLTR
no.| ang|rate|per|  |prf| #  | az  |prf| az  |prf| az  |prf| SUR| DOP| WTH|map
   | deg|rpm |sec|  | # |plse| deg | # | deg | # | deg | # | thr| thr| thr|
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
  9  6.2  2.9  21  B   3  10   30.0  4  210.0  4  335.0  4    28   28   28   1
 10  7.5  4.2  14 CD   0   0   30.0  6  210.0  6  335.0  6    28   28   28   1
 11  8.7  4.2  14 CD   0   0   30.0  7  210.0  7  335.0  7    28   28   28   1
 12 10.0  4.2  14 CD   0   0   30.0  7  210.0  7  335.0  7    28   28   28   1
 13 12.0  4.2  14 CD   0   0   30.0  7  210.0  7  335.0  7    28   28   28   1
 14 14.0  4.2  14 CD   0   0   30.0  7  210.0  7  335.0  7    28   28   28   1
 15 16.7  4.3  14 CD   0   0   30.0  7  210.0  7  335.0  7    28   28   28   1
 16 19.5  4.3  14 CD   0   0   30.0  7  210.0  7  335.0  7    28   28   28   1
```

Figure 3.7-2

3.7.2 VCP 21

Remote VCP 21 is defined with a PRF selection #4 (unambiguous range of 94 nm) through 6.0 degrees elevation, while the local VCP 21 (stored on the RDA hard drive) is defined with PRF selection #5 (unambiguous range of 80 nm).

```
                          VOLUME COVERAGE PATTERN                PAGE  1 OF  2
COMMAND: AD,*****,V,*****, 21,
FEEDBACK:                                                         OPER A/

   VCP    21/ A       (M)odify, {EL#/(A)LL}     (E)nd      (C)ancel
     SHORT Pulse      (S)elect Range, {NM}      (V)el, { .97 / 1.94 }

  ELEV  |  SCAN  |WF|  SURV  |  SECT 1 |  SECT 2 |  SECT 3 |              |CLTR
no.| ang|rate|per|  |prf| #  | az  |prf| az  |prf| az  |prf| SUR| DOP| WTH|map
   | deg|rpm |sec|  | # |plse| deg | # | deg | # | deg | # | thr| thr| thr|
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
  1  0.5  1.9  32 CS   1  28    0.0  0    0.0  0    0.0  0    16   16   16   1
  2  0.5  1.9  32 CD   0   0   30.0  4  210.0  4  335.0  4    28   28   28   1
  3  1.5  1.9  32 CS   1  28    0.0  0    0.0  0    0.0  0    16   16   16   1
  4  1.5  1.9  32 CD   0   0   30.0  4  210.0  4  335.0  4    28   28   28   1
  5  2.4  1.9  32  B   2   8   30.0  4  210.0  4  335.0  4    28   28   28   1
  6  3.4  1.9  32  B   2   8   30.0  4  210.0  4  335.0  4    28   28   28   1
  7  4.3  1.9  32  B   2   8   30.0  4  210.0  4  335.0  4    28   28   28   1
  8  6.0  1.9  32  B   3  12   30.0  4  210.0  4  335.0  4    28   28   28   1
```

Figure 3.7-3

```
                          VOLUME COVERAGE PATTERN                PAGE  2 OF  2
COMMAND: AD,*****,V,*****, 21,
FEEDBACK:                                                         OPER A/

   VCP    21/ A       (M)odify, {EL#/(A)LL}     (E)nd      (C)ancel
     SHORT Pulse      (S)elect Range, {NM}      (V)el, { .97 / 1.94 }

  ELEV  |  SCAN  |WF|  SURV  |  SECT 1 |  SECT 2 |  SECT 3 |              |CLTR
no.| ang|rate|per|  |prf| #  | az  |prf| az  |prf| az  |prf| SUR| DOP| WTH|map
   | deg|rpm |sec|  | # |plse| deg | # | deg | # | deg | # | thr| thr| thr|
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
  9  9.9  2.4  25 CD   0   0   30.0  7  210.0  7  335.0  7    28   28   28   1
 10 14.6  2.4  25 CD   0   0   30.0  7  210.0  7  335.0  7    28   28   28   1
 11 19.5  2.4  25 CD   0   0   30.0  7  210.0  7  335.0  7    28   28   28   1
```

Figure 3.7-4

3.7.3 VCP 31

The PRF selections for VCP 31 are not editable.

```
                              VOLUME COVERAGE PATTERN                PAGE  1 OF  1
COMMAND: AD,*****,V,*****, 31,
FEEDBACK:                                                             OPER A/

   VCP    31/ B       (M)odify, {EL#/(A)LL}     (E)nd      (C)ancel
      LONG Pulse      (S)elect Range, {NM}      (V)el, { .97 / 1.94 }

  ELEV  |  SCAN  |WF|  SURV  |  SECT 1 |  SECT 2 |  SECT 3 |              |CLTR
no.| ang|rate|per|  |prf| #  | az  |prf| az  |prf| az  |prf| SUR| DOP| WTH|map
   | deg|rpm |sec|  | # |plse| deg | # | deg | # | deg | # | thr| thr| thr|
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
  1  0.5  0.8  72 CS   1  63    0.0  0    0.0  0    0.0  0     0    0    0   1
  2  0.5  0.8  71 CD   0   0   30.0  2  210.0  2  335.0  2     0    0    0   1
  3  1.5  0.8  72 CS   1  63    0.0  0    0.0  0    0.0  0     0    0    0   1
  4  1.5  0.8  71 CD   0   0   30.0  2  210.0  2  335.0  2     0    0    0   1
  5  2.5  0.8  72 CS   1  63    0.0  0    0.0  0    0.0  0     0    0    0   1
  6  2.5  0.8  71 CD   0   0   30.0  2  210.0  2  335.0  2     0    0    0   1
  7  3.5  0.8  71 CD   0   0   30.0  2  210.0  2  335.0  2     0    0    0   1
  8  4.5  0.8  71 CD   0   0   30.0  2  210.0  2  335.0  2     0    0    0   1
```

Figure 3.7-5

3.7.4 VCP 32

Remote VCP 32 has the same PRF selections as the local VCP 32.

```
                              VOLUME COVERAGE PATTERN                PAGE  1 OF  1
COMMAND: AD,*****,V,*****, 32,
FEEDBACK:                                                             OPER A/

   VCP    32/ B       (M)odify, {EL#/(A)LL}     (E)nd      (C)ancel
     SHORT Pulse      (S)elect Range, {NM}      (V)el, { .97 / 1.94 }

  ELEV  |  SCAN  |WF|  SURV  |  SECT 1 |  SECT 2 |  SECT 3 |              |CLTR
no.| ang|rate|per|  |prf| #  | az  |prf| az  |prf| az  |prf| SUR| DOP| WTH|map
   | deg|rpm |sec|  | # |plse| deg | # | deg | # | deg | # | thr| thr| thr|
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
  1  0.5  0.8  72 CS   1  64    0.0  0    0.0  0    0.0  0     4    4    4   1
  2  0.5  0.8  80 CD   0   0   30.0  5  210.0  5  335.0  5     4    4    4   1
  3  1.5  0.8  72 CS   1  64    0.0  0    0.0  0    0.0  0     4    4    4   1
  4  1.5  0.8  80 CD   0   0   30.0  5  210.0  5  335.0  5     4    4    4   1
  5  2.5  0.7  89  B   2  11   30.0  5  210.0  5  335.0  5     8    8    8   1
  6  3.5  0.7  89  B   2  11   30.0  5  210.0  5  335.0  5     8    8    8   1
  7  4.5  0.7  89  B   2  11   30.0  5  210.0  5  335.0  5     8    8    8   1
```

Figure 3.7-6

3.8 Password Control (First Level) - Agency LOCA

The first level password may be changed for security reasons. To change the first level password, the first level password must be known.

NOTE: All personnel responsible for UCP operation must know the first level password.

```
                                ADAPTATION DATA                    PAGE  1 OF  1
COMMAND: AD,*****,
FEEDBACK:                                                           OPER A/

Select One.

(AL)ert Thresholds
(AS)sociated PUP IDs and Comline Assignments
(B)ackground Map Associations Edit Screen, {PROD ID#}
(CH)ange Password, {(1, PASSWORD#1) or (2, PASSWORD#2)}
(CL)utter Maps
(G)eneration and Distribution Control, {WX MODE}
(L)oad Shedding
(M)eteorological Algorithms, {PASSWORD2}
(NB)and, {PASSWORD2}
(P)roduct Alert Pairing
(V)olume Coverage Pattern, {PASSWORD2}, {VCP}


NOTE: {PASSWORDS} may be from 1 to 8 characters long.
```

Figure 3.8-1

3.9 Periodic Status Update Frequency - Agency LOCA

This parameter determines the rate in seconds at which the “active” status screens are updated. The Periodic Status Update Frequency affects the update rate of the current archive status, RDA status, VCP time and elevation, communications, load shedding, and RPG alarms.

```
                                UNIT CONTROL                       PAGE  1 OF  1
COMMAND: U,                                                           RPG ALARM
FEEDBACK:                                                          OPER A/R  21

Select one.

(C)omline Connection*              (INT)erface Parameters*
(ME)ssage Display                  (L)ooptest, {MSEC}
(SE)nd Message                     (MO)nitor Performance Freq, {MIN}
(W)eather Mode Default, {Mode}     (P)eriodic Status Freq, {SEC}
(INH)ibit Status, (M)ass Storage   (O)perational Mode
(INH)ibit Status, (A)rchive III    (R)estart
(INH)ibit, (ML)OS FAS P16 Check    (SH)utdown, {(S)tandby/(O)ff}
                                   (T)est Mode


Looptest being Performed         0  Monitor Performance Freq (min):       0
Weather Mode Default:            A  Periodic Status Freq (sec):          10
RPG Operational Mode:         OPER
MLOS FAS P16 Check Status     ENABLED
```

Figure 3.9-1

3.10 Current Volume Coverage Pattern (VCP) - URC LOCA

Doppler velocity estimates of some weather echoes may be obscured by range-folded data due to second-trip ground clutter or overlaid multiple-trip echoes. A remedy for some of these cases is to temporarily change the pulse repetition frequency (PRF), which effectively changes the unambiguous range. When there are echoes in all quadrants and at various ranges from the radar, it may not be prudent to change the PRF for all elevation angles and all sectors. In such cases, the user may change the PRF for one or more sectors on one or more elevation angles. A temporary change of this nature is done by modifying the current volume coverage pattern (VCP).

```
                          CURRENT VOLUME COVERAGE PATTERN          PAGE  1 OF  2
COMMAND: V,                                                            RPG ALARM
FEEDBACK:                                                            OPER A/L  21

   VCP    21/ A       (M)odify, {EL#/(A)LL}     (E)nd      (C)ancel
     SHORT Pulse      (S)elect Range, {NM}      (V)el, { .97 / 1.94 }

  ELEV  |  SCAN  |WF|  SURV  |  SECT 1 |  SECT 2 |  SECT 3 |              |CLTR
no.| ang|rate|per|  |prf| #  | az  |prf| az  |prf| az  |prf| SUR| DOP| WTH|map
   | deg|rpm |sec|  | # |plse| deg | # | deg | # | deg | # | thr| thr| thr|
-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
  1  0.5  1.9  32 CS  1   28    0.0  0    0.0  0    0.0  0    16   16   16   1
  2  0.5  1.9  32 CD  0    0   30.0  5  210.0  5  335.0  5    28   28   28   1
  3  1.5  1.9  32 CS  1   28    0.0  0    0.0  0    0.0  0    16   16   16   1
  4  1.5  1.9  32 CD  0    0   30.0  5  210.0  5  335.0  5    28   28   28   1
  5  2.4  1.9  32  B  2    8   30.0  5  210.0  5  335.0  5    28   28   28   1
  6  3.4  1.9  32  B  2    8   30.0  5  210.0  5  335.0  5    28   28   28   1
  7  4.3  1.9  32  B  2    8   30.0  5  210.0  5  335.0  5    28   28   28   1
  8  6.0  1.9  32  B  3   12   30.0  5  210.0  5  335.0  5    28   28   28   1
```

Figure 3.10-1